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TITLE:

High-Throughput Quantitative RT-PCR in Single and Bulk *C. Elegans* Samples Using Nanofluidic Technology

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KEYWORDS:

RT-qPCR, single-worm, *C. elegans*, bulk samples, worm-to-CT, nematodes, high-throughput, nanofluidic, multiplex

SUMMARY:

In this article a high-throughput protocol for fast and reliable determination of gene expression levels in single or bulk *C. elegans* samples is described. This protocol does not require RNA isolation and produces cDNA directly from samples. It can be used together with high-throughput multiplexed nanofluidic real-time qPCR platforms.

ABSTRACT:

This paper presents a high-throughput reverse transcription quantitative PCR (RT-qPCR) assay for *Caenorhabditis elegans* that is fast, robust, and highly sensitive. This protocol obtains precise measurements of gene expression from single worms or from bulk samples. The protocol presented here provides a novel adaptation of existing methods for complementary DNA (cDNA)

preparation coupled to a nanofluidic RT-qPCR platform. The first part of this protocol, named 'Worm-to-CT', allows cDNA production directly from nematodes without the need for prior mRNA isolation. It increases experimental throughput by allowing the preparation of cDNA from 96 worms in 3.5 h. The second part of the protocol uses existing nanofluidic technology to run high-throughput RT-qPCR on the cDNA. This paper evaluates two different nanofluidic chips: the first runs 96 samples and 96 targets, resulting in 9,216 reactions in approximately 1.5 days of benchwork. The second chip type consists of six 12 x 12 arrays, resulting in 864 reactions. Here, the Worm-to-CT method is demonstrated by quantifying mRNA levels of genes encoding heat shock proteins from single worms and from bulk samples. Provided is an extensive list of primers designed to amplify processed RNA for the majority of coding genes within the *C. elegans* genome.

INTRODUCTION:

The optimization of single-cell RNA sequencing and qPCR revealed that transcriptional pulses or bursts can lead to massive variation in the number of RNA molecules per cell¹. Further, these technologies uncovered substantial cellular heterogeneity previously missed by standard bulk transcriptomic measurements. Depending on the context, some single-cell transcriptional variability is caused by mixed cellular composition of tissues. However, even in isogenic cell populations grown under the same environment there is widespread transcriptional heterogeneity^{2,3}. This 'biological variability' is increasingly identified as a ubiquitous property of cellular networks, from bacteria to man. In some cases, it can have phenotypic consequences in development, cancer progression, HIV latency, and response to chemotherapy^{4,5}.

The nematode *Caenorhabditis elegans* is a unique model organism with ideal characteristics for studying the causes and consequences of biological variability between individuals. These nematodes are a simple model organism composed of 959 cells, and their transparent cuticle makes them amenable for in vivo imaging studies⁶. *C. elegans* is a hermaphroditic species that predominantly reproduces through self-fertilization; this resulted in isogenic laboratory strains. Despite isogenicity and controlled culture conditions, many phenotypes and transcripts are variable across individuals, suggesting that stochastic or microenvironmental differences contribute to heterogeneity across individuals⁷⁻⁸. Such variability in gene expression has multiple fitness consequences, including variability in the penetrance of mutations, survival, developmental timing, and fecundity⁷⁻⁹. Due to these features, single-worm studies provide the unprecedented opportunity to study biological variability in a whole organism.

There is a fundamental need in the field to develop and optimize technologies for accurate detection of transcripts at a single-worm level. New technologies, such as single-worm RNA sequencing¹⁰, RNA sequencing from isolated tissues¹¹, and single-cell sequencing¹² are now available for *C. elegans*. However, a main challenge remains: when monitoring interindividuality, weakly expressed genes often fall below detectable levels¹³. This is particularly relevant for rare transcripts isolated from small amounts of starting material, as there is a well-established, inverse relationship between mean expression and technical variance, often causing rare transcripts to fall below statistical cutoffs¹³. The optimization of high-throughput multiplexed qPCR technologies has proven useful for mammalian single-cell studies, in particular when

studying the expression of rare transcripts^{14,15}. This technology can also be used for benchmarking and validation purposes of other single-worm technologies.

Worm-to-CT is a fast, robust method adapted from a kit used in cell biology studies, for single-worm cDNA preparation. cDNA obtained by this method coupled with multiplexed nanofluidic qPCR technology was chosen because it provides higher experimental throughput, a broader dynamic range of detection and has been validated for single-cell purposes^{14,15}. The cDNA preparation described is also applicable for use with standard PCR technologies. The throughput is increased in two ways: First, cDNA preparation is faster and more reliable than traditional guanidium thiocyanate-phenol-chloroform extraction, because worms are directly added to the lysis buffer, skipping direct isolation of easily degradable RNA. Second, utilizing nanofluidic technologies significantly increases the number of samples and targets that can be run simultaneously. In this paper, two chips are compared: a single-array chip and a multi-array chip. A single-array chip can run 96 single worms and 96 primer sets, resulting in 9,216 reactions per experiment. To accomplish a similar throughput using standard qPCR technologies would require 96 separate qPCR experiments. The smaller and more flexible multi-array chip consists of six 12 x 12 arrays resulting in 864 reactions. The method's superior reliability and sensitivity are boosted by nanofluidic technology and by the introduction of a preamplification step. The method presented in this paper is meant to be used together with a state-of-the art statistical algorithm to extract biological variance. This article presents the protocol for rapid cDNA preparation and high-throughput qPCR for both single-worm and batch worm samples; the algorithm will be published elsewhere. For this protocol, the organization of each chip should be prepared prior to the experiment. **Table 1** and **Table 2** show examples of these plans for a multi-array and single-array chip, respectively. There are also overviews of the Worm-to-CT protocol detailed in **Figure 1** and running the multi-array and single-array chips in **Figure 2**.

PROTOCOL:

NOTE: Throughout this protocol *Caenorhabditis elegans* is referred to as "worm" or "worms". A variety of *C. elegans* strains can be ordered through online databases or by directly contacting labs that use the model organism. Part I of this protocol (sections 1–3) describes cDNA preparation through the Worm-to-CT protocol. Part II of this protocol (sections 4–13) describes running high-throughput RT-qPCR using nanofluidics, adapted from a protocol developed by Fluidigm¹⁶. This protocol applies to the use of the two types of nanofluidic chips defined earlier, the single-array chip, which can monitor 96 targets into 96 samples (9,216 RT-qPCR reactions total), or the multi-array chip, which functions as subunits of 12 target x 12 samples. Every multi-array chip contains six independent arrays that can be run together or separately. For instance, using a whole multi-array chip can monitor 72 targets x 12 samples (or vice versa), or 36 targets x 24 samples (or vice versa). For further information regarding any of the materials used in this protocol, refer to the **Table of Materials**.

1. RT-qPCR primer validation

NOTE: Real-time primers were designed based on the recommended properties originally issued

by MIQUE guidelines¹⁷. To make primers specific for processed RNA, products were designed such that the two primers bound to either side of at least one splice junction. Requirements for suitable primers included 20%–80% guanine and cytosine content, a melting temperature of 58–60 °C, a difference in melting temperature between primer pairs of ≤ 0.5 °C and a product length of 70–120 bp. The sequence of the primers generated can be found in **Supplemental Table 1**. Open source code for the scripts used to generate the primers can be found at <https://github.com/s-andrews/wormrtPCR>. Primer pairs for transcripts with splice sites were designed so that they lie in two exons flanking an intron but were not designed to be splice-variant specific. For this study, the primer sets were blasted against the *C. elegans* genome to test for any off-target complementarity, and problematic primers were redesigned using NCBI Primer Blast software¹⁸.

1.1. Retrieve primers from the database of RT-qPCR primers (**Supplemental Table 1**). Alternatively, design qPCR primer pairs using online tools such as NCBI Primer Blast¹⁸.

1.2. Perform a qPCR standard curve to monitor specificity and PCR efficiency for each pair of primers using standard bulk qPCR techniques¹⁹ and following MIQUE guidelines^{17,20}.

NOTE: Only primer pairs with $R^2 > 0.98$ and PCR efficiency between 85% and 115% should be used. The sequence, PCR efficiency, and R^2 for the primers used in this study are detailed in **Table 3**.

2. Worm lysis through Worm-to-CT

2.1. Pick the worms from their bacterial lawn onto a fresh, unseeded NGM plate and allow the worms to move around the plate for 5 min to remove most of the bacteria from the worm through its movement.

NOTE: The bacterial lawn and growing conditions will differ depending on the experimental design. The experiments presented here require 6 cm NGM plates seeded with OP50 *Escherichia coli* with worms of interest grown to stage L4.9 in a 20 °C incubator.

2.2. In an RNase-free hood, prepare a lysis master mix consisting of 10 μ L of lysis buffer with 1:100 DNase I per sample.

2.3. Place the lid of a PCR strip upside down on the platform of the dissecting scope and add 10 μ L of the lysis mix to domed PCR tube caps under a compound microscope.

NOTE: With only one or two samples, it is better to use a PCR strip containing at least four tubes, as this reduces the risk of the caps blasting open in the subsequent freeze-thaw steps. Alternatively, rubber bands can be used to hold the caps in place. In that case ensure caps are properly closed every time the tubes are transferred.

2.4. Pick the worms from the plate into each slot of the lid containing the lysis mix by “scooping”

177 them (i.e., catching the worms underneath with the pick) to avoid bacterial contamination. Close
178 the tubes and spin them down for 5 s before placing them in a Dewar flask filled with liquid
179 nitrogen.

180
181 NOTE: Between 15 and 30 worms should be used for bulk experiments and 1 worm for single-
182 worm measurements.

183
184 CAUTION: When handling liquid nitrogen wear Cryo-Gloves as well as protective eyewear and
185 adhere to standard clothing regulations, because contact with the skin or eyes can cause serious
186 frostbite injury.

187
188 2.5. Freeze-thaw the PCR tubes 10x by transferring them between liquid nitrogen and a ~40 °C
189 water bath. Leave the tubes in the liquid nitrogen for a minimum of 5 s to ensure the samples
190 are completely frozen. Leave the tubes in the water bath until the samples thaw. Do not leave in
191 for a longer period, as this leads to RNA degradation.

192
193 NOTE: Tubes can be left in liquid nitrogen for an extended period of time, as samples are frozen
194 to approximately -200 °C, reducing RNA degradation. This should not, however, be a protocol
195 stopping point, because liquid nitrogen evaporates rapidly.

196
197 2.6. Mix the samples on a thermal mixer (**Table of Materials**) set at 4 °C for 20–30 min rotating
198 at ~1,800 rpm.

199
200 2.7. While the samples are being mixed, thaw the stop solution on ice.

201
202 2.8. Spin the samples down and add 1 µL of stop solution to each tube.

203
204 NOTE: The samples can be left at -80 °C for up to 1 week before reverse transcribing the RNA
205 (section 3).

206 207 3. Reverse transcription

208
209 NOTE: For reverse transcription of single worms, the results shown here were generated using
210 the reagents provided with the nanofluidic chips (option 2 in **Figure 1**). The reagents highlighted
211 in option 2 of **Figure 1** were also used for reverse transcription of pooled samples. Either method
212 works interchangeably for the different sample types.

213 214 3.1. Reverse transcription of single worms

215
216 3.1.1. In an RNase-free hood, add 1.25 µL of reverse transcription mix (**Table of Materials**) to a
217 fresh PCR tube.

218
219 NOTE: A 96 well PCR plate and an automatic pipette can be used if there are many samples. The
220 manufacturer's protocol states that 1 µL can be used per sample.

3.1.2. Take 5 μL of lysed sample from step 2.7 and add it to the fresh PCR tube containing the reverse transcription mix.

NOTE: The manufacturer's protocol states that 1 μL of RNA (2.5 $\text{pg}/\mu\text{L}$ –250 $\text{ng}/\mu\text{L}$) can be used per reaction. A negative RT control per plate can be added by replacing the reverse transcription mix with 5 μL of lysed sample and 1.25 μL of RNase-free water.

3.1.3. Run the samples using the following reverse transcription program on a thermocycler: 25 $^{\circ}\text{C}$ for 5 min, 42 $^{\circ}\text{C}$ for 30 min, 85 $^{\circ}\text{C}$ for 5 min and 4 $^{\circ}\text{C}$ for ∞ .

NOTE: The cDNA produced can be stored at -20 $^{\circ}\text{C}$ before proceeding to amplification and data collection using high-throughput qPCR.

3.2. Reverse transcription for bulk samples (15–30 worms)

3.2.1. In an RNase-free hood, prepare a master mix consisting of 12.5 μL of 2x RT buffer, 1.25 μL of 20x RT enzyme buffer, and 0.25 μL of nuclease-free water per sample. Add 14 μL of master mix to 11 μL of each sample.

NOTE: When dealing with a large number of samples this can be performed in 96 well plates. In this case, 5 μL of the lysis solution from step 2.7 can be added to the well along with 14 μL of the master mix prepared in step 3.2.1.

3.2.2. Run the samples through a thermocycler using the following reverse transcription program: 37 $^{\circ}\text{C}$ for 60 min, 95 $^{\circ}\text{C}$ for 5 min, and 4 $^{\circ}\text{C}$ for ∞ .

3.2.3. Dilute the produced cDNA 1:4 in nuclease-free water.

NOTE: Generally, the products come to a final volume of 25 μL , in which case 75 μL should be added. However, due to condensation the final volume can vary. Therefore, adjust accordingly to make a 1:4 ratio in the final solution. This dilution step does not apply if performing qPCR on single worms. The cDNA produced can be stored at -20 $^{\circ}\text{C}$ before proceeding to amplification and data collection using high-throughput qPCR.

4. Preparing the multiplex primer mix

4.1. Prepare a forward/reverse (F/R) primer stock for each pair of primers at 50 μM final concentration. Mix the same volume of forward and reverse primers at 100 μM each.

4.2. Combine 1 μL of 50 μM F/R primer stock for each primer pair to be tested. Add the DNA suspension buffer up to a total volume of 100 μL .

NOTE: The stock primer concentrations here differ from those described in the manufacturer's

protocol²⁰ but retain the same final concentration of 500 nM.

5. Target specific preamplification

5.1. Prepare a master mix containing 1 μL of preamplification mastermix (**Table of Materials**), 0.5 μL of the pooled primer mix (step 4.2), and 2.25 μL of nuclease-free water per reaction.

5.2. In a 96 well plate, aliquot 3.75 μL of the master mix into as many wells as required for the number of samples to be run.

5.3. Add 1.25 μL of the cDNA solutions of interest generated at step 3.1.3 or 3.2.3 to each well.

5.4. Cover the plate with 96 well sealing tape, briefly vortex, and centrifuge with a tabletop plate spinner. Transfer to a thermocycler and run the following program: 95 °C for 2 min, 15 cycles of denaturation at 95 °C for 15 s, annealing/extension at 60 °C for 4 min, and 4 °C for ∞ .

NOTE: The manufacturer recommends from 10–20 cycles for the preamplification reaction¹⁶. This protocol recommends 10 or 15 cycles depending on the expression levels of the target genes.

6. Exonuclease I treatment

NOTE: This is to remove unincorporated primers from preamplification.

6.1. Prepare an exonuclease I mix containing 0.2 μL of exonuclease I reaction buffer (**Table of Materials**), 0.4 μL of exonuclease I at 20 U/ μL (**Table of Materials**), and 1.4 μL of nuclease-free water per sample. Keep all reagents on ice, especially the exonuclease I.

6.2. Remove the 96 well plate (step 5.4) from the thermocycler, centrifuge with the tabletop plate spinner, and carefully remove the seal. Add 2 μL of the exonuclease I mix to each preamplification reaction. Reseal, centrifuge, and place the 96 well plate back into the thermocycler using the following program: 37 °C for 30 min, 80 °C for 15 min, and 4 °C for ∞ .

6.3. Take the samples out of the thermocycler and dilute them 1:5 by adding 18 μL of 1x Tris EDTA buffer (**Table of Materials**).

NOTE: It is possible to keep the cDNA samples at -20 °C for later use. The manufacturer's protocol suggests potential dilutions of 5x, 10x, or 20x at this stage¹⁶, depending on the expression level of the targets of interest.

7. Preparing the assay mixes

NOTE: Assay mixes can be prepared in 384 well plates, as the wells have the same spacing as the nanofluidic chips, making loading easier.

7.1. Preparing assay mixes for a multi-array chip

7.1.1. Prepare a master mix consisting of 2 μL of 2x assay loading reagent (**Table of Materials**) and 1.6 μL of DNA suspension buffer (**Table of Materials**) for each well according to the prepared plan. Aliquot 3.6 μL of this master mix per well into a 384 well plate.

7.1.2. Add 0.4 μL of the 50 μM F/R primer stock prepared in step 4.1 to the appropriate wells according to the prepared plan.

NOTE: This provides a total of 4 μL of assay mix per well, with a surplus of 1 μL .

7.2. Preparing assay mixes for a single-array chip

7.2.1. Prepare a master mix consisting of 3 μL of 2x assay loading reagent and 2.4 μL of DNA suspension buffer for each well according to the prepared plan. Aliquot 5.4 μL of this master mix per well into a marked 384 well plate.

7.2.2. Add 0.6 μL of the 50 μM F/R primer stock to the appropriate wells according to the prepared plan.

NOTE: This provides a total of 6 μL of assay mix per well, with a surplus of 1 μL .

8. Preparing the sample mixes

NOTE: Sample mixes can be prepared up to 1 day in advance and stored at 4 $^{\circ}\text{C}$.

8.1. Preparing samples for a multi-array chip

8.1.1. Prepare a sample master mix consisting of 2 μL of 2x fluorescent probe supermix with low ROX (**Table of Materials**) and 0.2 μL of sample reagent (**Table of Materials**) per sample. Dispense 2.2 μL of this mix into the marked 384 well plate.

NOTE: The manufacturer recommends not vortexing the sample reagent¹⁶.

8.1.2. Pipette 1.8 μL of each preamplified, exonuclease I treated sample from step 3.2.3 into the appropriate wells according to the prepared plan.

NOTE: This gives a total of 4 μL , with a surplus of 1 μL .

8.2. Preparing samples for a single-array chip

8.2.1. Prepare a sample master mix consisting of 3 μL of 2x fluorescent probe supermix with low ROX (**Table of Materials**) and 0.3 μL of 20x DNA-binding dye sample loading reagent (**Table of Materials**) per sample. Dispense 3.3 μL of this mix into the marked 384 well plate.

8.2.2. Pipette 2.7 μL of each preamplified and exonuclease I treated sample from step 6.3 into the appropriate wells according to the prepared plan.

NOTE: This gives a total of 6 μL , with a surplus of 1 μL . If there are any wells to be run without a sample these must be loaded with sample master mix and 2.7 μL of water instead of cDNA. This is recommended for both chip types. The machine needs low ROX in every inlet in order to detect the chip's grid.

9. Priming the nanofluidic chip

NOTE: A multi-array chip only needs to be primed on the first run. If there are subsequent runs of the same chip this stage can be skipped. These steps are the same for both chip types.

9.1. Slowly and carefully, inject the full 150 μL of the control line fluid from the syringes included into the accumulators of the chip. Ensure that no control liquid touches the chip by holding the chip at a 45° angle and holding the tip of the syringe away to avoid spillage.

9.2. Remove the blue protective film from the bottom of the chip.

9.3. Place the chip into the nanofluidics PCR priming machine (**Table of Materials**), with the barcode facing outwards. Run the 'Prime (153x)' script, which takes ~15–20 min.

NOTE: Turn on the nanofluidics thermocycler (**Table of Materials**) at this stage, because the camera takes about 10 min to cool down to below 0 °C.

10. Loading the nanofluidic chip

10.1. Remove the barrier plugs sequentially as loading takes place. This reduces the chance of misloading wells.

10.2. Transfer either 3 μL for a multi-array chip or 5 μL for a single-array chip of each primer assay mixes and sample mixes to the corresponding inlets of the nanofluidic chip according to the prepared plan. Make sure not to introduce bubbles, which can cause the total volume transferred to be smaller than desired.

NOTE: If there are any wells that will be run without a primer it is important for these to be loaded with master mix, substituting the primer volume with water. This applies to both chip types. At this stage, it can be easier to place the chip on a dark surface, which will allow the wells to be seen more easily.

11. Running the nanofluidic chip

NOTE: The first time running a multi-array chip, set up the tracking file by selecting **Tools | Flex**

Six Usage Tracking, click **New**, enter a file name, and select a location before clicking **Done**.

11.1. Open the data collection software. Click **Start New Run**. Place the loaded chip into the nanofluidics thermocycler with the barcode facing outwards.

11.2. Choose the project setting if applicable, then click **Next | Load**. If loading a multi-array chip, select the partitions (arrays) to be run.

11.3. Select the application **Reference Probes**, then change the application type to **Gene Expression**, and change the passive reference to **ROX**. Select the **Single Probe Assay**, change the probe type to **Eva Green**, and click **Next**.

11.4. Select the thermal cycling protocol **GE FLEX six Fast PCR+Melt v1** to run a multi-array chip, or the protocol **GE 96.96 Fast PCR+Melt v2** to run a single-array chip.

11.5. Confirm that **Auto Exposure** is selected and click **Start Run**.

12. Post chip run

NOTE: This section is only necessary for multi-array chips when not using the entire chip.

12.1. Take the chip out of the nanofluidics thermocycler and load into the nanofluidics PCR priming machine and run the Post Run (153x) script, which lasts 5 min.

12.2. Label the plugs used for personal reference.

NOTE: The chip can now be stored at room temperature and the remaining arrays on the chip can be run within 2 months.

13. Data cleanup and analysis

13.1. Open the data in the '**Real-Time PCR Analysis**' software (**Table of Materials**). Check the melting peak temperature for every primer pair tested. Eliminate results exhibiting more than one melting temperature peak.

NOTE: Multiple peaks only appear occasionally, presumably when primer pairs forms dimers, or from interactions of target primers with other primers in the pooled primer mix.

13.2. Export the data as a 'heatmap' spreadsheet file and eliminate failed samples or primers.

13.3. Analyze data using the standard Delta-Ct method²¹. For statistical evaluation perform one-way ANOVA on relative expression levels.

REPRESENTATIVE RESULTS:

Validation of Worm-to-CT as a cDNA preparation method

To test if the Worm-to-CT protocol is a valid cDNA extraction method, it was compared to standard guanidium thiocyanate-phenol-chloroform extraction methods. The results are shown in **Figure 3**, where cDNA was prepared from an average of ~1,000 worms using standard guanidium thiocyanate-phenol-chloroform extraction techniques²² and from 30 worms using the Worm-to-CT method. The samples were heat shocked simultaneously (30 min at 34 °C). Globally, *hsp-70* mRNA expression levels per 100 ng of total RNA were comparable using both methods. However, in the case of highest *hsp-70* expression (i.e., in N2 following heat shock) expression levels were higher with the Worm-to-CT method, indicating improved sensitivity.

To determine if expected decrease in *hsp* expression in *hsf-1(sy441)*²³, a mutation in the main transcriptional regulator of molecular chaperones^{23,24}, could be reproduced, transcriptional chaperone induction following a brief heat shock was compared. With both methods a decrease in *hsp-70* induction was detected in *hsf-1(sy441)* animals. This was expected, because mutant *hsf-1(sy441)* animals exhibit a decreased ability to induce chaperones due to a truncation in the transactivation domain of HSF-1. For guanidium thiocyanate-phenol-chloroform extraction *hsp70* decreased by 82.7% compared to controls and 92.3% for Worm-to-CT compared to wild type animals (**Figure 3**). The results were comparable between both methods and comparable to previous reports²³. These results indicate that the Worm-to-CT method is a valid alternative to standard cDNA synthesis techniques.

Validation of the nanofluidics PCR platform used to amplify mRNA targets

To test the consistency of the results using nanofluidic qPCR for transcript amplification, the PCR results obtained from the Worm-to-CT bulk method were compared on both a standard qPCR system (**Table of Materials**) and a nanofluidic qPCR system using a multi-array chip. The fold change in the expression of three different genes, *sma-3* (**Figure 4A**), *sma-10* (**Figure 4B**), and *dnj-26*, was monitored (**Figure 4C**) in animals carrying a null allele in *dbl-1* (*dbl-1(nk3)*)²⁵ compared to wild type counterparts. *Dbl-1* encodes the sole ligand of the Bone Morphogenetic Protein (BMP) signaling pathway. *sma-3* and *sma-10* are genes encoding SMAD orthologues, key components of the BMP signaling cascade. *Dnj-26* encodes a molecular chaperone, a target of BMP signaling. These results show little to no difference in the fold change comparing the results of the two methods, resulting in not significant P-values at 0.3113, 0.2635, and 0.3481 for *sma-3*, *sma-10*, and *dnj-26*, respectively. Altogether, these results show that the Worm-to-CT method applied to bulk samples is an efficient and rapid way to extract RNA from few worms and provides reliable data when coupled with either standard PCR systems or high-throughput nanofluidics-based qPCR platforms.

Comparison between the expression levels obtained by bulk samples with averages obtained from single worms

The relative expression levels were calculated using either cDNA obtained from bulk samples (25 worms) or from an average of 36 single worm samples (**Figure 5**). Both cDNAs were obtained using the Worm-to-CT method and amplified using nanofluidics PCR technology. As observed in **Figure 5A–C**, for all chaperones tested (i.e., *hsp16.1*, F44E5.4, *hsp-70*), the methods detected

comparable expression levels. These results indicate that parameters obtained from single worms are reliable.

Application of Worm-to-CT coupled to nanofluidics technology to estimate single-worm gene expression parameters

Because the single-array chip allows monitoring of up to 96 target transcripts on 96 individual samples, it is therefore well-suited to monitor individual variability in transcript expression between single worms. **Figure 6A** presents a representative result showing the mean expression of multiple *hsp* transcripts from single worms following a short heat shock. As observed in the figure, the variability in the expression of transcripts differed dramatically across different genes (**Figure 6A**). To gain further insight, the coefficient of variation (CV) was calculated by dividing the standard deviation by the mean of the expression levels²⁶ (**Figure 6B**). Three genes whose CV values have been previously estimated by alternative methods were monitored (unpublished data). Two stable transcripts (*ife-1* and *Y45F10D.4*) and one variable (*nlp-29*²⁷) showed their expected variability. The graph also clearly depicts the well-known inverse relationship between variability values and expression levels²⁶ (**Figure 6B**).

Technical replicates are of paramount importance to ensure reproducibility when using bulk samples. However, this is not necessarily the case for single-cell experiments^{14,15,28}. To determine if the use of technical replicates is necessary for parameter estimation when using single-worm samples, 30 individual worms were processed using technical triplicates under three heat shock conditions: 1) none; 2) short; or 3) long. The CV values calculated from single-worm data obtained in triplicate (blue dots in **Figure 7**, technical CV) versus those for every transcript obtained from individual worms (red dots in **Figure 7**, biological variability) were compared. For every transcript tested, the technical CVs were lower than the biological CVs, indicating that technical triplicates were not required for parameter estimation. The fact that technical replicates are not required increases the throughput of the experiment without compromising quality.

FIGURE AND TABLE LEGENDS:

Figure 1: Overview of the Worm-to-CT Protocol. This figure shows a brief overview of the different steps required to run worms through the Worm-to-CT protocol. Two optional methods are shown for the reverse transcription step; these are interchangeable methods for either type of chip.

Figure 2: Overview of the preparation and running of nanofluidic qPCR. This figure depicts preparations for running the nanofluidic qPCR system using a multi-array chip and a single-array chip.

Figure 3: Worm-to-CT protocol on bulk samples provided reliable results. Comparison of Worm-to-CT protocol versus regular guanidium thiocyanate-phenol-chloroform extraction²² on bulk samples. Consistent with previous findings, in *hsf-1(sy441)* mutants²³, the levels of *hsp* transcripts in response to heat shock decreased. The above histograms depict the induction of *hsp-70* in the absence of (-), or following (+) a short heat shock of 30 min at 34 °C. The cDNA was obtained

using guanidium thiocyanate-phenol-chloroform extraction applied to 1,000 worms (left) or using the Worm-to-CT method applied to 30 pooled worms (right). The expression levels of *hsp-70* per 100 ng of total RNA obtained by each method were compared. As expected, in *hsf-1(sy441)* the transcriptional induction of *hsp-70* in response to heat shock significantly decreased by 82.7% using guanidium thiocyanate-phenol-chloroform and by 92.3% using the Worm-to-CT method. The mRNA levels from target genes were normalized against the average of the three housekeeping genes *cdc-42*, *pmp-3*, and *ire-1*. Each dot represents a biological replicate. Data were log transformed for statistical analysis, as they did not meet the conventions required for parametric analysis. Statistical analysis was done using a RM-One-way ANOVA using Sidak's multiple comparisons test. Wild type = N2, *hsf-1* = *hsf-1(sy441)*. Bars denote the standard error of the mean.

Figure 4: Expression patterns were consistent between standard qPCR and nanofluidic qPCR systems. (A) The expression level of *sma-3* mRNA was determined through regular qPCR and nanofluidic qPCR (multi-array chip) from three biological replicates of cDNA generated through Worm-to CT from the wild type strain (N2) and the *dbl-1(nk3)* knockout strain²⁵. Relative mRNA expression levels were determined for each strain using the Delta-Ct method²¹. Fold change was then determined by dividing the expression levels obtained in *dbl-1(nk3)* worms by the corresponding mRNA levels in the N2 strain. As shown in panel A, the patterns were consistent for both methods in each individual biological replicate. (B) and (C) are the same as (A) for *sma-10* and *dnj-26* mRNA levels, respectively. Target mRNA levels were normalized against the housekeeping genes *cdc-42* and *pmp-3*. Statistical analysis was calculated for each gene using a paired t-test comparing the results of the three biological replicates produced through standard qPCR and those generated through nanofluidic qPCR. The P-values of these comparisons were 0.3113, 0.2635, and 0.3481 for *sma-3*, *sma-10*, and *dnj-26*, respectively.

Figure 5: Using Worm-to-CT method on bulk samples or on single worms provided similar levels of expression when normalized per worm. The expression levels of (A) *hsp-16.1/11*, (B) F44E5.4, and (C) *hsp-70* (C12C8.1) were analyzed in young adult animals in the absence of heat shock (30 min at 34°C) either by performing Worm-to-CT on a bulk of 25 animals, or on 36 single individuals. When the data were normalized per worm, there was no significant difference between levels obtained per worm for each transcript using both methods. The mRNA levels from target genes were normalized against the average of the three housekeeping genes *cdc-42*, *pmp-3*, and *ire-1*. Bars represent the standard error of the mean. Statistics = paired t-test.

Figure 6: High-throughput RT-qPCR on single worms using the Worm-to-CT method could monitor inter-individual variability in gene expression. (A) The mean expression levels for 53 transcripts obtained upon exposure to a short heat shock (30 min at 34 °C). Boxplots represent the distribution of mean mRNA expression from individual worms (an average of three technical replicates were used per individual worm). The dots represent expression levels in 28 individual worms. The mRNA levels from target genes were normalized against the average of the three housekeeping genes *cdc-42*, *pmp-3*, and *ire-1*. (B) The coefficient of variation²⁶ (CV) as a function of mean mRNA expression for 53 transcripts following exposure to a short heat shock calculated from 28 individual animals (raw data shown in panel B). The set of transcripts includes the

variable *nlp-29* transcript²⁷ and two stable transcripts (*ife-1* and *Y45F10D.4*; unpublished data). The CV is the ratio of the mean by the standard deviation. This CV was utilized to estimate inter-individual variability in transcript expression between individual worms. As expected, inter-individual variability scaled with decreased mean expression levels.

Figure 7: Technical replicates were not necessary when analyzing inter-individual variability in gene expression using a nanofluidic chip. The data presented in this graph were obtained in 28 individual worms following a short heat shock (30 min at 34 °C). Each red dot represents the coefficient of variation (CV) of mean transcript expression levels for one transcript assayed between 28 individual worms (bio CV). Each blue dot represents the CV of expression levels between three technical replicates obtained from a single worm, per transcript assayed (technical CV). This graph shows that technical variability (between technical replicates) was much lower than biological variability (between individual worms), suggesting that it is unnecessary to perform technical replicates on a nanofluidic gene expression array when assaying gene expression in single worms, similarly to single-cell studies^{14,15,28}.

Table 1: Plan layout for a multi-array chip. The table above shows a simple layout that can be utilized when planning a multi-array chip run. On the left are the spaces that should be filled with the primer targets of interest and on the right are spaces that should be filled with the samples of interest. Each assay and sample array is paired number-wise through the chip.

Table 2: Plan layout for a single-array chip. The table above shows a simple layout that can be utilized when planning a single-array chip run. On the left are spaces that should be filled with primer targets of interest and on the right are spaces that should be filled with the samples of interest.

Table 3: List of RT-qPCR primers used in this study.

Supplemental Table 1: Primers from the database of RT-qPCR primers.

DISCUSSION:

In this paper, the Worm-to-CT protocol is shown to be a rapid and efficient method to extract RNA from single worms or a small pool of worms. The high-throughput offered by the nanofluidic system makes it ideal for quantification of inter-individual variability measurements. Furthermore, the high sensitivity of this method allows the detection of genes expressed at low levels that fall below detection when using single-worm RNA-seq technologies⁹.

When considering the choice of method to prepare cDNA from single worms. Ly et al.²⁹ optimized a protocol that relies on proteinase K for cuticle digestion. The cuticle is a major hurdle for the isolation of molecules from worms and proteinase K provides an effective method to break it. However, proteinase K has to be heat-inactivated to be able to use enzymes for reverse transcription. While Ly et al. used a 10 min exposure to 96 °C, this step was avoided in this protocol because RNA is easily degradable. Instead of using proteinase K, repeated freeze-thaw cycles were used to break the cuticle. The freeze-thaw is an effective method to break the cuticle

because more RNA can be isolated per worm. Ly et al. report that the total RNA extracted per worm is 35 ng using proteinase K, whereas this protocol obtains 51.75 ± 6.74 SEM of total RNA per worm. Avoidance of heat exposure coupled with preamplification steps apparently widens Worm-to-CT's dynamic range of detection compared to standard protocols. Ly et al. report absolute Ct values of 21.1 ± 0.15 for hsp-16.2 and 22.8 ± 0.17 for hsp-70 after heat shock. Using the same heat shock conditions (1 h at 30 °C), this protocol obtains absolute Ct values of 17.93 ± 0.57 for hsp-16.2 and 21.13 ± 0.33 for hsp-70. This indicates that the freeze-thaw lysis method provides higher yields of RNA and is more appropriate for lowly expressed transcripts.

Nanofluidic systems are ideal when investigating a given set of target transcripts and the use of either smaller (multi-array chip) or larger (single-array chip) number of samples allowing adaptation to the scale of the experiment. To obtain an unbiased picture of all transcripts expressed in a single worm, the obvious choice is to use RNA sequencing. If, however, the focus of the experiment is a smaller but still relatively large set of target genes, it is more cost-effective to utilize this protocol, provided the researcher has access to a nanofluidics PCR machine. The cost of the nanofluidic system reagents and a single-array chip is estimated as approximately £13 per worm, whereas the costs of the reagents for single-worm sequencing would be approximately £60 per worm, not including the sequencing costs.

When considering what PCR platform to use, the Worm-to-CT method coupled to nanofluidic qPCR offers advantages with regards to time and throughput. It is possible to obtain 9,216 RT-qPCR results in approximately 2 days of work, whereas amplification of the same number of targets using a standard qPCR platform would take approximately 5 working weeks using 96 well plate assays, running four plates a day. However, if the number of targets to be tested is smaller, then it is more cost-effective to use Worm-to-CT coupled with a standard qPCR machine. The single-array chips cannot be rerun, so running empty wells decreases cost-efficiency.

One limitation of the method is the potential formation of primer-primer dimers during the multiplexing step, but this occurs in less than 1% of the cases. Although the Worm-to-CT protocol is efficient and provides reliable results when applied to single worms, there is a failure rate of about 5%, which likely corresponds to cases where the worm remains trapped in the cap or the top of the tube during the harvesting step.

Together, this versatile and reliable method offers increased throughput and sensitivity compared to more standard techniques. This method can be very useful for validation of high-throughput screens and is an excellent choice to either monitor or validate single-worm gene expression levels. This method can be applied to other challenging techniques, such as the quantitation of gene expression from isolated tissues. For example, isolation of full tissues, such as the intestine, gonads, or cells isolated by FACs, provides enough material to perform RNA sequencing experiments. However, limited amounts of material often lead to duplicated reads, which precludes quantitation of rare transcripts. In this scenario, using nanofluidics-based technology should provide added sensitivity to the experiments and increase cost-efficiency if the researchers need to monitor only a subset of all transcripts in those tissues or cells.

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DISCLOSURES:

The authors have nothing to disclose.

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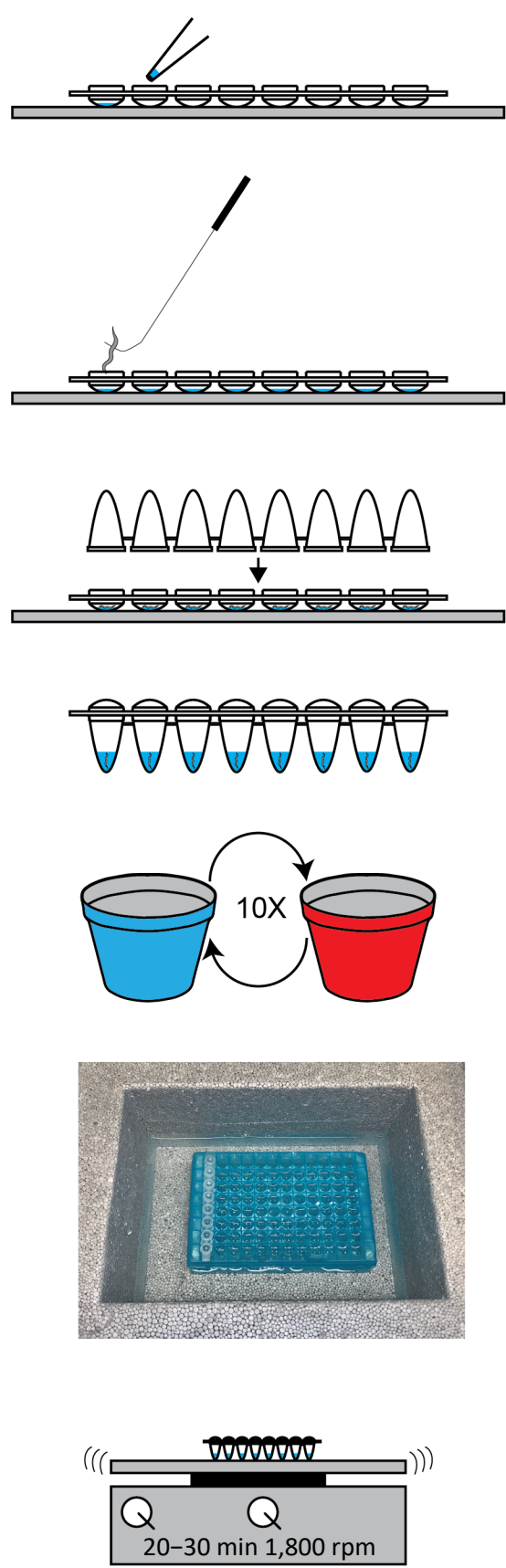
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Worm-to-CT Protocol Overview

LYSIS



1. Place the lid of a PCR strip upside-down on the platform of the dissecting scope and add 10 μ L of lysis solution (with DNase) to each slot.

2. Pick single nematodes into each slot of the lid containing the lysis solution.

Recommended: To avoid contaminating the lysis mixture with a large amount of bacteria, first let the nematode crawl on an agar plate without bacteria for 5 min.

3. Carefully lock the PCR strip on its lid.

4. Spin down the lysis mixture, PCR strip upside-up.

5. Freeze-thaw the lysis mixture 10x using liquid nitrogen and a hot water bath (at $\sim$ 40 $^{\circ}$ C). This step takes 5–10 min.

Recommended: Keep the PCR strip upside-up in a 96 well plate holder during step 5, so that the lid does not come into contact with the outside liquids.

6. Mix the lysis mixture for 20–30 min at 4 $^{\circ}$ C on a thermal mixer. The nematode should have dissolved completely in the lysate.

7. Add 1 μ L of stop solution to each of the samples.

Potential stopping point: Store the lysate at 80 $^{\circ}$ C for up to a week.

Reverse Transcription Option 1 - bulk worm samples

RT master mix (1 RXN)
2x RT buffer: 12.5 μ L
20x RT Enzyme Mix: 1.25 μ L
Nuclease-free water: 0.25 μ L
(RT mastermix final volume: 14 μ L)

cDNA synthesis
Step 1. 37 $^{\circ}$ C, 60 min
Step 2. 95 $^{\circ}$ C, 5 min
Step 3. 4 $^{\circ}$ C, ∞

1. Assemble the RT master mix on ice.
2. Add 14 μ L of RT mater mix to each lysate, mix thoroughly, and place in a PCR machine with the cDNA synthesis program.
- Potential stopping point: Store the cDNA at -20 $^{\circ}$ C.

Reverse Transcription Option 2 - single worm samples

Reverse transcription
Step 1. 25 $^{\circ}$ C, 5 min
Step 2. 42 $^{\circ}$ C, 30 min
Step 3. 85 $^{\circ}$ C, 5 min
Step 4. 4 $^{\circ}$ C, ∞

1. Add 1.25 μ L of reverse transcription mix to 5 μ L of each sample in a PCR tube.
2. Place the tubes in the thermocycler and run the reverse transcription program.

Biomark System Overview

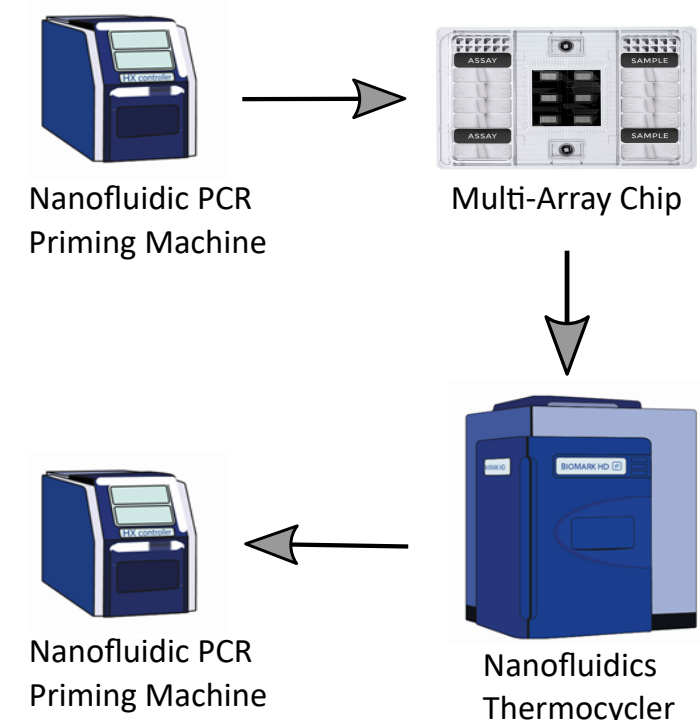
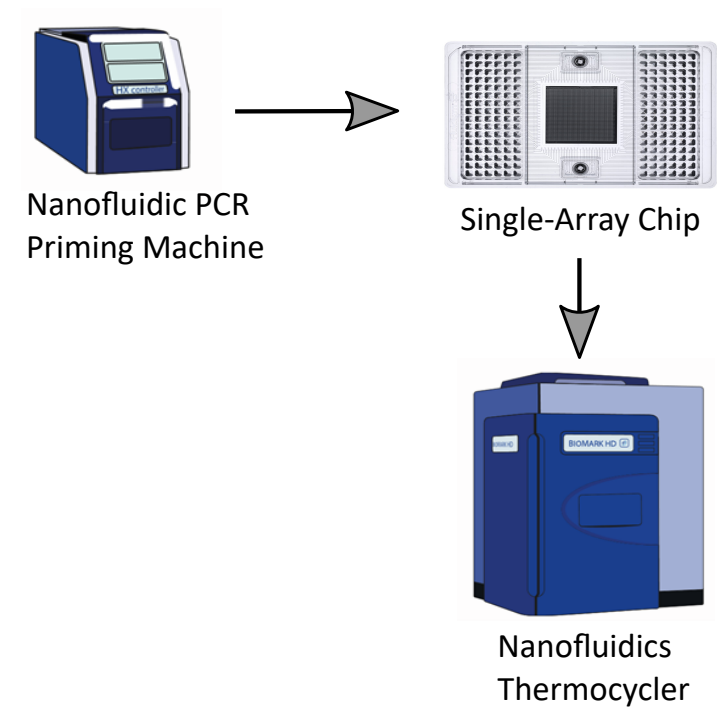
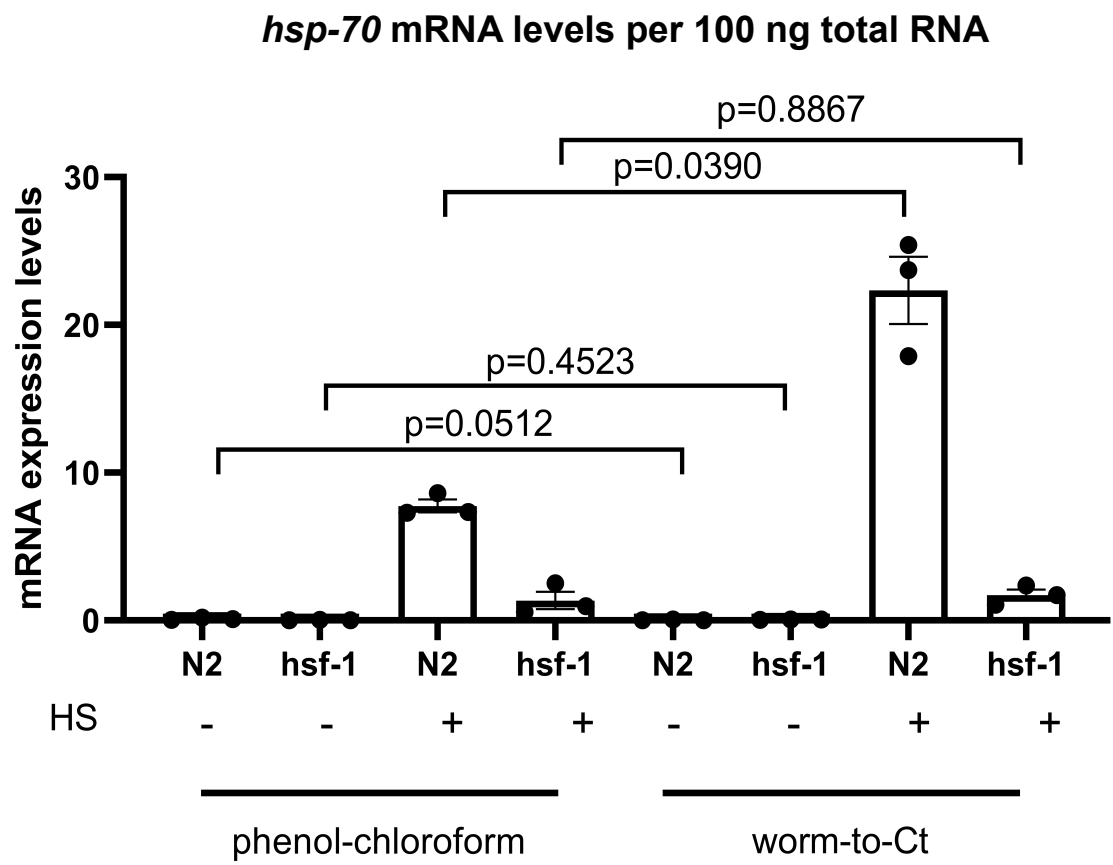
Running a Multi-Array Chip		Running a Single-Array Chip	
Preamp Mix (Per Reaction): Preamp Master Mix: 1 µL Pooled Primer Mix (500 nm): 0.5 µL Water: 2.25 µL	1. Assemble the mix as follows and add 3.75 µL of this to 1.25 µL of cDNA.	Preamp Mix (Per Reaction): Preamp Master Mix: 1 µL Pooled Primer Mix (500nm): 0.5 µL Water: 2.25 µL	1. Assemble the mix as follows and add 3.75 µL of this to 1.25 µL of cDNA.
Preamp Step 1. 95 °C, 2 min Step 2. 95 °C, 15 s Step 3. 60 °C, 4 min Step 4. 4 °C, ∞ 10–15 cycles	2. Run the samples through the thermocycler under the Preamp parameters.	Preamp Step 1. 95 °C, 2 min Step 2. 95 °C, 15 s Step 3. 60 °C, 4 min Step 4. 4 °C, ∞ 10–15 cycles	2. Run the samples through the thermocycler under the Preamp parameters.
Exonuclease I Mastermix (Per Reaction) Water: 1.4 µL Exonuclease I Reaction Buffer: 0.2 µL Exonuclease I at 20 Units/µL: 0.4 µL	3. Make up the Exonuclease I Mix and add 2 µL of this to each Preamp reaction.	Exonuclease I Mastermix (Per Reaction) Water: 1.4 µL Exonuclease I Reaction Buffer: 0.2 µL Exonuclease I at 20 Units/µL: 0.4 µL	3. Make up the Exonuclease I Mix and add 2 µL of this to each Preamp reaction.
Exonuclease I Treatment Step 1, 37 °C, 30 min Step 2, 80 °C, 15 min Step 3, 4 °C, ∞	4. Run the samples through the thermocycler under the Exonuclease I Treatment parameters.	Exonuclease I Treatment Step 1, 37 °C, 30 min Step 2, 80 °C, 15 min Step 3, 4 °C, ∞	4. Run the samples through the thermocycler under the Exonuclease I Treatment parameters.
10x Assay Mix (Per Reaction, 1 µL Surplus) 50 µM Forward/Reverse Primers: 0.4 µL DNA Suspension Buffer: 1.6 µL 2x Assay Loading Reagent: 2.0 µL	5. Make up an Assay Mix for every primer of interest (note this is per inlet).	10x Assay Mix (Per Reaction, 1µL Surplus) 50µM Forward/Reverse Primers: 0.6 µL DNA Suspension Buffer: 2.4 µL 2x Assay Loading Reagent: 3.0 µL	5. Make up an Assay Mix for every primer of interest (note this is per inlet).
Sample Mix (Per Reaction, 1 µL Surplus) Fluorescent Probe Supermix: 2.0 µL Sample Reagent: 0.2 µL Preamp and Exo I treated sample: 1.8 µL	6. Make up a Sample Mix for every sample of interest (note this is per inlet).	Sample Mix (Per Reaction, 1 µL Surplus) Fluorescent Probe Supermix: 3.0 µL Sample Reagent: 0.3 µL PreAmp and Exo I treated sample: 2.7 µL	6. Make up a Sample Mix for every sample of interest (note this is per inlet).
 Nanofluidic PCR Priming Machine Multi-Array Chip Nanofluidics Thermocycler Nanofluidic PCR Priming Machine	7. Prime the chip in the Nanofluidic PCR Priming Machine. 8. Load the chip. 9. Run the chip through the Nanofluidics Thermocycler. 10. Run the chip through the Post-run script in the Nanofluidic PCR Priming Machine.	 Nanofluidic PCR Priming Machine Single-Array Chip Nanofluidics Thermocycler Nanofluidic PCR Priming Machine	7. Prime the chip in the Nanofluidic PCR Priming Machine. 8. Load the chip. 9. Run the chip through the Nanofluidics Thermocycler. 10. Run the chip through the Post-run script in the Nanofluidic PCR Priming Machine.

Figure 3.



Figure

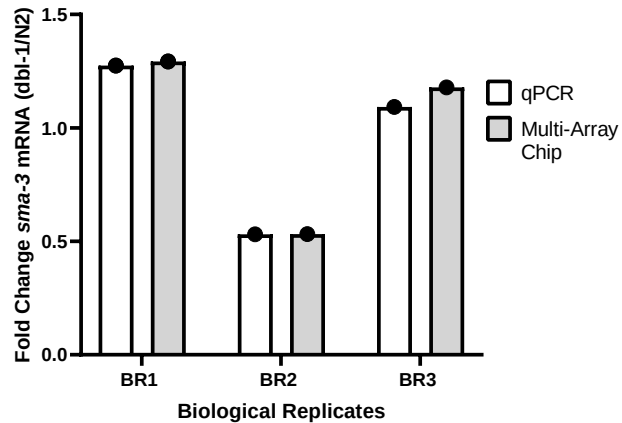
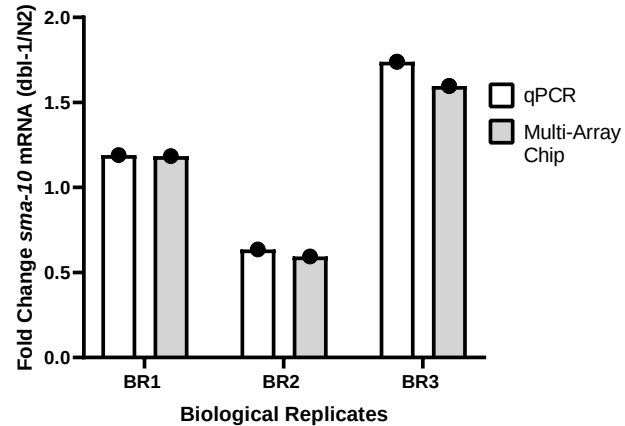
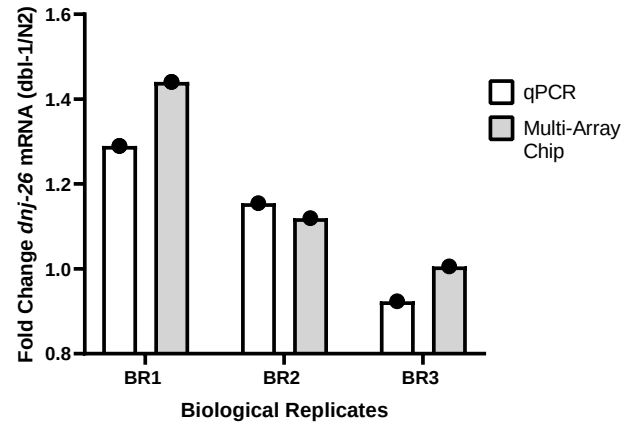
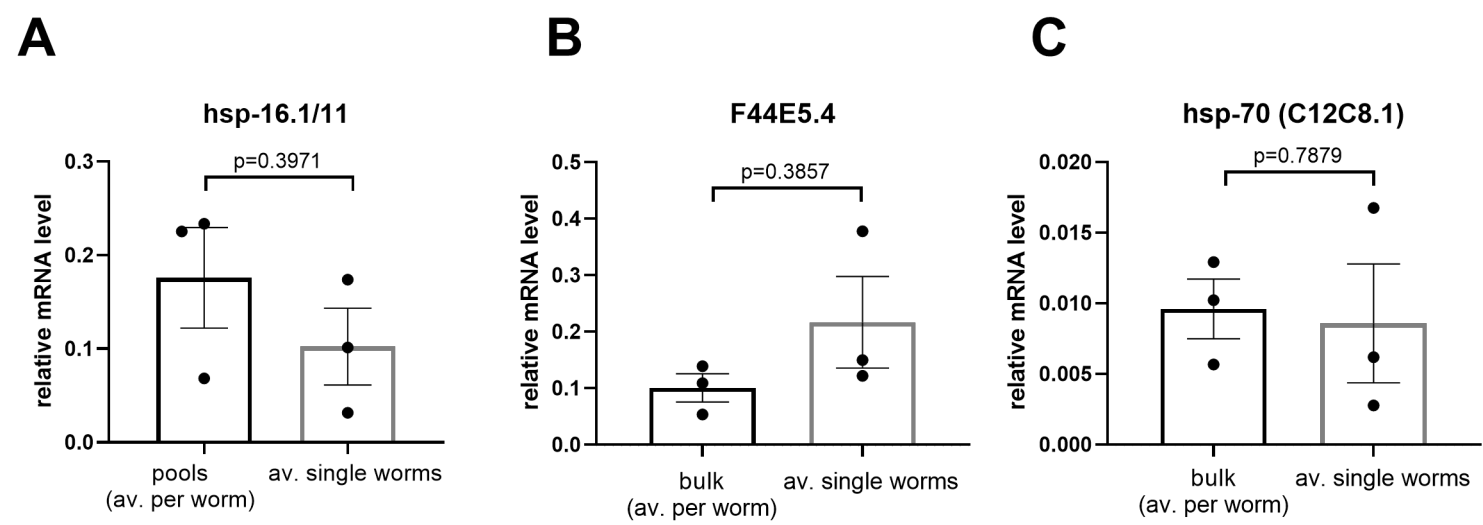
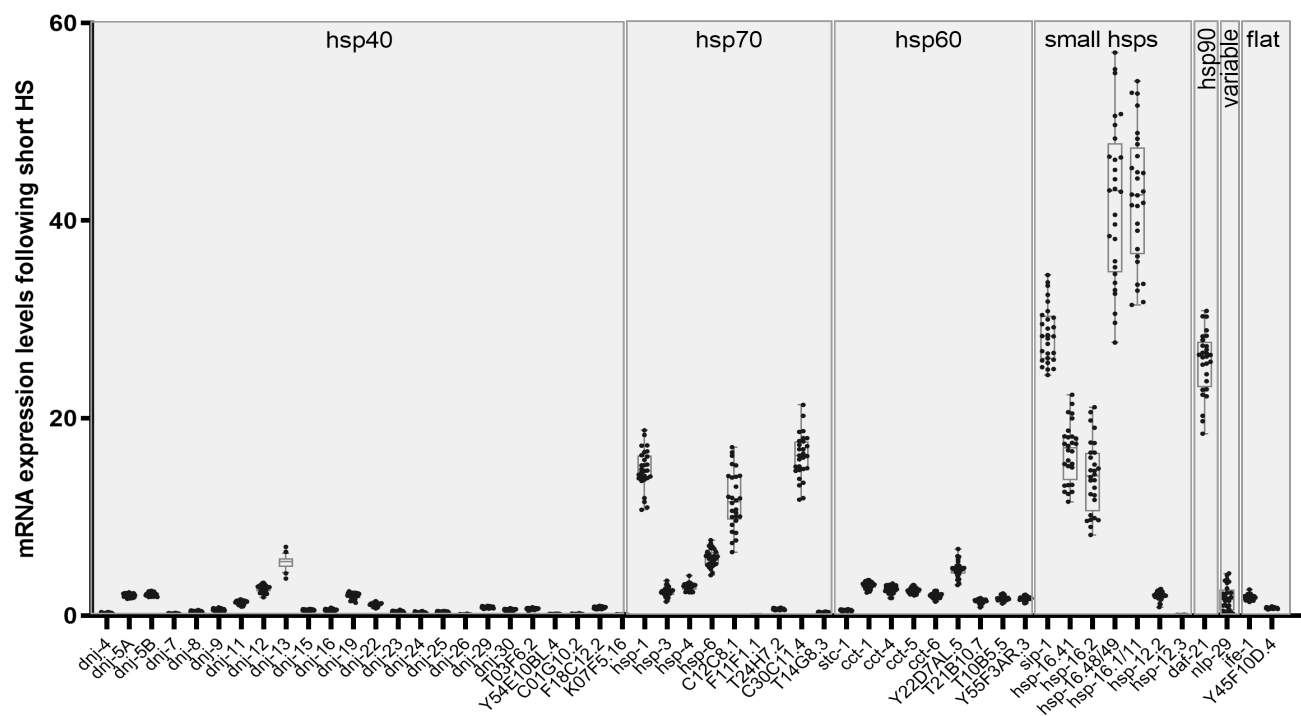
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Figure 5.



A



B

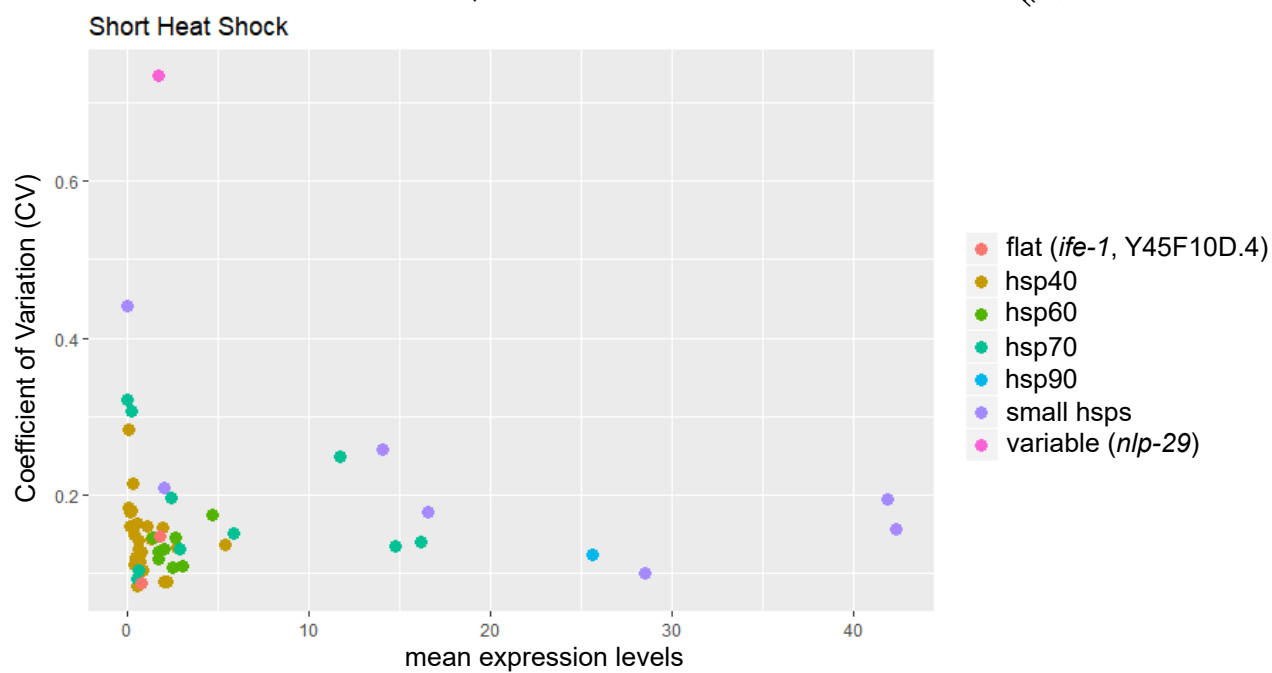
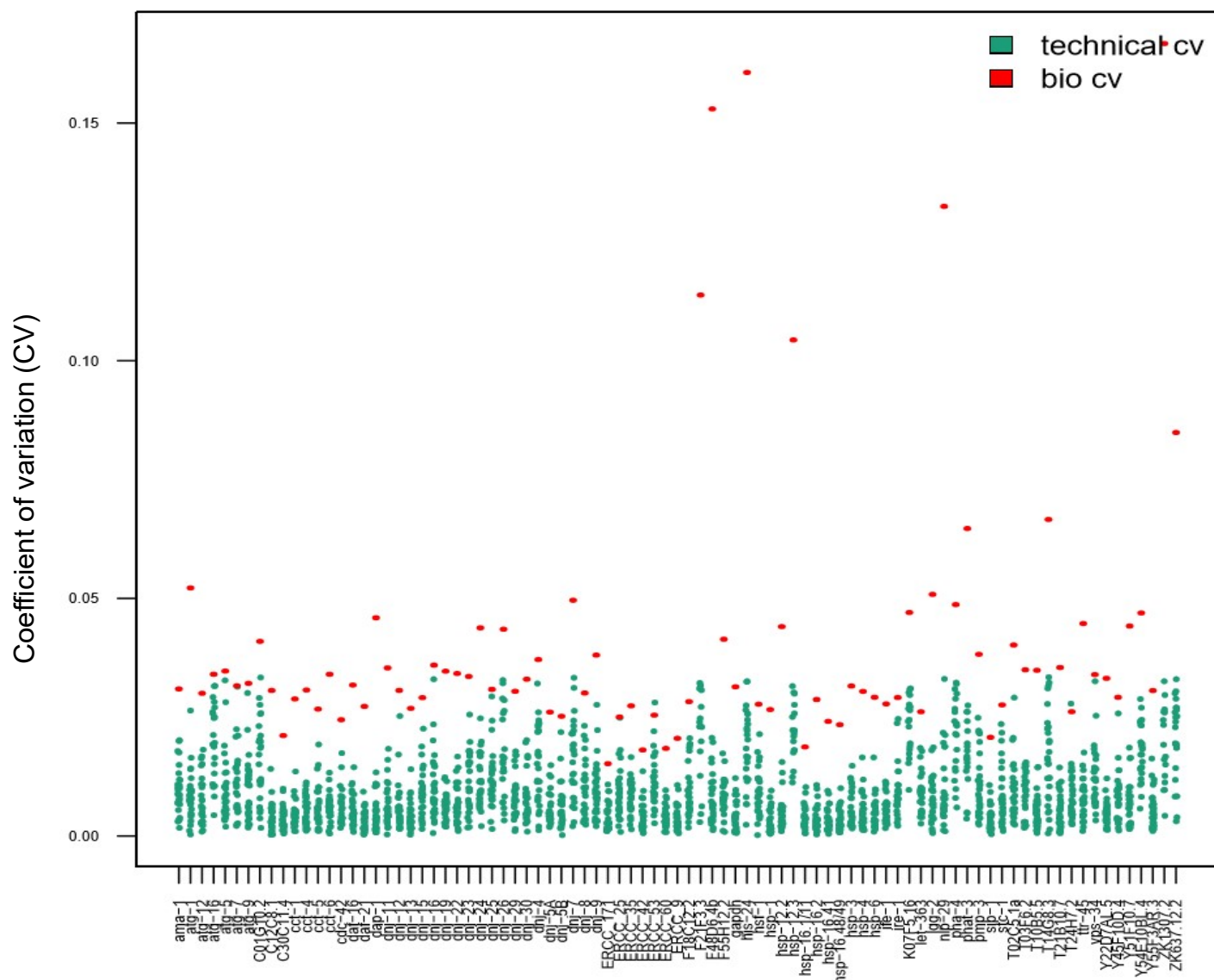


Figure 7.



Primers						
Assay 1						
Assay 2						
Assay 3						
Assay 4						
Assay 5						
Assay 6						

Samples						
Sample 1						
Sample 2						
Sample 3						
Sample 4						
Sample 5						
Sample 6						

Primers						
	1	2	3	4	5	6
A						
B						
C						
D						
E						
F						
G						
H						
I						
J						
K						
L						
M						
N						
O						
P						

Samples						
	1	2	3	4	5	6
A						
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C						
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E						
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Gene	Sequence Forward	Sequence Reverse
ama-1	GGTGGATACAGCCCATCGAG	CGAGGATGGAGTGTACGTCG
atg-1	CTGCCAAGACGGACTACGCT	TGCTGCCACATACGACGAAG
atg-12	GGACACTGTTGCTTCCTTCATCT	AAGAAGAGTGAGTTGTTGGCTTGA
atg-5	AAGACGAGTCGGCACAGTTGT	CGATCGTCCAGAACTCGTCA
atg-7	CAGCCACGACGATAATACAACAG	CCACAAGCAACACATTGATCG
atg-9	GGCTCATCCACAAGGTCACTG	TCGGCAGGTGAATCGTGATAC
C12C8.1	TCGATGAAGTTGTCTTGTTGG	AGGCTACTGCTTCGTCTGGATT
C30C11.4	GAGACTCGTTCGAAGACTGATGC	CGGCTTCTTCTATTGAGGATAGG
cct-1	ACATCTCATTCACTTCGACTCG	CAACAACCAGCTCTCCGAAGA
cct-4	CAGCCACGACGATAATACAACAG	CAGGCGGTAGAGCAGGAAGT
cct-5	CAGGAGAACCAGAAGCGTATCAC	GACCGAGAGATGTGCGAAGAG
cct-6	ACCACATCCACCGTTCTCCTT	ACTCGAAGCCTTCAGTAACAATACG
cdc-42	TCCACAGACCGACGTGTTTC	AGGCACCCATTTTTCTCGGA
daf-16	GAACAGTGTCGTGGATCGT	CGGTAGTGGCATTGGCTTGA
daf-21	ATTCGCTACCAGGCACTCAC	TGGTAAGGGTCTTTCTCCT
dap-1	TGCCAGCTAAGATGGAAGA	ACACCGCTATTAGCATCACG
dnj-11	AGCAAGCCGACAAGGAGACA	CATCTCTCCACGTTCCAGGT
dnj-12	TCACTGCGACAGTTGTAATGGAG	CCAGGCGTGATTCCAAC TTC
dnj-13	CGGATAAGAATAAGGAAGCTGGAG	AGTCCTTCTCTCCGAATTGATC
dnj-15	TCGGTTGGATCAGGATGAGC	TCTCCTCGTCAGTCGCCATT
dnj-16	AATATGATGAAGCTGTGGCGAA	TTATACGGTTCTTGAGACTTCTGGAG
dnj-19	TTCACGTTCTTCTGGCATG	GACAACATCTCCTGGCTCACC
dnj-22	AAGAAGCCGAACGTAGATTCATTG	GGTGTTCTTGAGCCATTCGA
dnj-23	TAAGGCTGAGAAGGAGGCAATC	AGTGAATCGAGGAACGACGTG
dnj-24	AATGGCGATGAACATATTGTTGA	ATGTTGGCGGTGTTGTTACTGT
dnj-25	TTGACGAAGAACCTCCAGCAC	TCCATTAGACCGAACGCAGAC
dnj-26	AGTACGCAAGGCGACGACAT	AGGCTCATTGCTGGTAGAGTGTG
dnj-29	CGTTGCTTCAGCTTCCACAC	ATGGCACGAGAATACACGCTT
dnj-30	TTGCTGATCGAGAGAAGAAGAGAA	TTCTCTGCGGTCTGGTTGCT
dnj-4	CAGCGAACACATTACGAAGTGC	CGGATGAGTTGTCAGGATGGA
dnj-5A	CTCCATCTCAAGCAAGAAGTTGTAAG	CGTGTAATAGGTAGAAGTCAATCCGA
dnj-5B	CTCCATCTCAAGCAAGAAGTTGTAAG	CGTGTAATAGGTAGAAGTCAATCCGA
dnj-7	GCACGGATAGTACGGACACCA	CTTGAGGCATTCTCGGATAACG
dnj-8	TTCTCACAATATGTGTATCCTCTCAGA	CAGTTGGAAGTGTATGCTCCAGTAG
dnj-9	CGCAATTCTGAATGTTCCGA	CAGCGTCCTTCTTCTCGTCAT
ERCC_171	CCATTGGATGAAGCCCAGGA	CGTAATCAACGCCGCAACTT
ERCC_25	GGTTCGAGTACCCAGAGCAG	AGCCGTAGACGCAACTCATT
ERCC_35	GGCTCTGTATGCTACGACC	CTACCGGTTACGACGAGTT
ERCC_42	CATGGTGAGGAGCTGGTGAG	ATTGGAGGGCACTTACCTGG
ERCC_53	AACAAATCCTTTCCCTGCCTG	TTGCTCACCAGCTACTGGAAAT
ERCC_60	TGTGTTCTTGTGTGAAGTGGC	AAAAGAGGGGGAGGAGCCAA
ERCC_9	GCTAGTCTCGCGCAGTACAT	AGAGCTGCGTCACATACGTC
F11F1.1	GCTGTTGGTGAGGATGGAGA	TCATCATATCGCCGTCCAAT
F18C12.2	TCTTGCCAGAAGCGAGAACTC	GATTGCTCATTGGTGGTGGAT
F21F3.3	CCATTTCTCCGAATTCGTCT	GGGTAGAAGTTGGCCTCAAT
F44E5.4	GAATGGAAGGTTGAGATCCTCG	GCTGCATCTCCAACCAATCTT
F48D6.4b	AAAGTGTCGAACCCTGTTCC	GCATTGTCGGTCTTGTCTTTC

F55H12.4	TTGGCAAAGGAACCAGCTAT	GTTTGCGAACCATACCACCT
gapdh	TGGAGCCGACTATGTCGTTGAG	GCAGATGGAGCAGAGATGATGAC
hsf-1	TGGTCTAACTCGAACAGAATCAGA	TCCACAGTTCTTGCCGATTG
hsp-1	CACTGTTTTCGATGCCAAACG	TCCTTCGGCAGAGATGACCT
hsp-12.3	TGGAGTTGTTAAGGTTCTGGACT	CCAATGTTCTTCACATCAATCTCGT
hsp-16.1	ATGGCTCAGATGGAACGTCA	TGGCTTGAACGCGAGACAT
hsp-16.2	TCCATCTGAGTCTTCTGAGATTGTT	TGATAGCGTACGACCATCCAAA
hsp-16.41	TGGGGAGATTGTAAATGATGAATCC	TCAATTTTGAGCTCTCTTCCATCT
hsp-16.48/49	TGGATGAAATCACTGGATCTGT	GATTCGTCATTTACAATCTCTCCAA
hsp-3	CATCGCCTACGGACTTGACA	AATGGTGAGCATGGATACATCG
hsp-4	TTCAACAAGACATCAAGCACTGG	GGCAGAGACTTCTTCAGGAGTGA
hsp-6	GATTGGATAAGGACGCTGGAGA	CCGTTGGTGGACTTGACCTC
ife-1	CAGCGTCTGGACTAAGGATTGC	GGATCACATCGAACAGTGGCTT
ire-1	TACTTGCCACCACGGAGACC	CGTTGCCATCGTCATCATTG
K07F5.16	AAGTGAAGGAGCACAAACGAAT	GGAATGAAGCCACGAATCGT
let-363	AACTGATAAGACCAAGGAACGAGT	GCGGAAGAACAAGATGAAGATG
lgg-2	CCGAGCATATAACCGTTGCC	GCTTGTGTGGATGAAGTTGGA
nlp-29	AGGATATGGAAGAGGATATGGAGG	CTCCGTACATTCCACGTCCA
pha-4	GCACACTAGGAACCACGCAAG	CCGAAGTGTAGAGGTAAGGAGACG
phat-3	ATTGTGCTGTAAGACGGCTGACT	CACTGTTCATTGGTAATGGTGGAG
pmp-3	GTTCCCGTGTTCACTACTCAT	ACACCGTCGAGAAGCTGTAGA
sip-1	CGGGTTCAGCAAGAGATCGT	CCAAGTCGACGTCCTTTGGA
sma-10	AAGTTGCAAGTCTACCAAGCG	CCGGTCTTGAGTTCCTGTG
sma-3	TGGAAGCTCAACGGCATCTT	TCGTGGTGAACCTTGCACTT
stc-1	AATCAGTACCGAGTGTCGTTGCT	TGTTCTTGTTGTTCCGTGGCT
T02C5.1a	AACGAGCGTGAAATCAAGTG	GACTTTGCATGAGCTGGT
T03F6.2	TTGTAGTGATGAATGTGATGAAGAAG	GATGTGTTGCTTCGAGTTCTCATG
T10B5.5	ATCGGAATCAAGAAGGTCAACG	GAAGCCAGCATAACTGAACGC
T14G8.3	TGTGCTGAATAAGGAGTCAAGAAGA	GTAGGAAGATTGAGGATGCGAAG
T21B10.7	CTGGACTTGACTCGGCTGAAC	CGTAACATCAGCAACCTCTCCTT
T24H7.2	AGGTTGATGATGCTCCGAAGA	AGCAGTTAGTGCTTCAACTGTATAGCT
T28F4.5/ dap-1	TGCCAGCTAAGATGGAAAGA	ACACCGCTATTAGCATCACG
ttr-45	CGACGGGCAAGGAATGTTCA	CGGAGTCCTGGCTTCAACTT
vps-34	TTCTCACTTATGTTAGACGCTGGAAT	TTGGTAGCTGCTTCATCCGA
Y22D7AL.5	CCAAGGACGTCAAGTTCGGA	TCACGTTTCTTCCTTTTGGGC
Y45F10D.4	GTCGCTTCAAATCAGTTCAGC	GTTCTTGTCAGTGATCCGACA
Y51F10.7	ATGCGAATTTGCACACAAC	GTACGGCTTATTAGCAGCAATC
Y54E10BL.4	TTCGCTGGAGCAAGACAACA	TCTTGTGAAGCAGAATGGTCGA
Y55F3AR.3	GACACTGTGATTCTGTGGCTGTTC	CGGATTATGATTGTGGCGACTT
ZK637.12.2	GATGGACAACGAGAAGCTGA	GGGATTTGCATCTTCAACTG



PCR efficiency (%)	R2
101	0.992
148	0.849
97	0.923
100	0.9599
112	0.8555
115	0.901
110.1	0.978
109.51	0.997
107.88	0.99
114.14	0.993
105	0.9944
102	0.9893
100.3	0.995
100	0.9934
109	0.994
112	0.9942
107	0.9732
105.81	0.99
103	0.98
112.15	0.98
98	0.9062
98	0.9763
101	0.9871
102.56	0.99
107.08	0.99
102.3	0.99
105.67	0.99
100.09	0.99
106.71	0.99
95.37	0.99
102	0.9898
102	0.9834
110.61	0.99
100.53	0.99
94.4	0.99
109	0.995
91	0.932
78	0.9834
103.7	0.998
100.5	0.993
82	0.9911
98	0.9894
100.8	9.979
111	0.985
93.1	0.96
97.8	0.992
94	0.99

105	0.964
100.2	0.996
105.59	0.99
107.76	0.988
95.54	0.999
102	0.984
102.2	0.998
104.7	0.998
90	0.9952
106.63	0.98
96	0.9873
101	0.9916
108.43	0.99
110.29	0.99
111.6	0.99
110	0.962
116	0.963
114.78	0.99
100	0.963
95	0.8264
109.34	0.99
114.198	0.994
81.75	
106.6	0.987
96	0.9656
111	0.971
112	0.99
101	0.9829
101.39	0.99
101	0.9772
110	0.984
108.45	0.998
114.15	0.99
92	0.907
106	0.9929
103.31	0.997
103	0.9825
106.02	0.96
95	0.984
92	0.927

Name of Material/Equipment	Company	Catalog Number	Comments/Description
100μM stock primers for genes of interest.			
20X DNA Binding Dye	Fluidigm	100-7609	for 96.96 chip (Single-Array Chip)
2X Assay Loading Reagent	Fluidigm	100-7611	
384 well plates			
8-strip PCR tubes			
96 well ice block			
96 well plates			
96.96 Dynamic Array IFC	Fluidigm	BMK-M-96.96	Referenced throughout the manuscript as "Single-Array Chip"
96-well sealing tape			
BioMark & EP1 Software	Fluidigm	101-6793	Contains: Biomark HD Data Collection software, Real-Time PCR Analysis software, SNP Genotyping Analysis software, Digital PCR Analysis software, Melt Curve Analysis software
BioMark or BioMark HD system	Fluidigm	100-2451 K1	Referenced throughout the manuscript as "nanofluidics thermocycler"
Control Line Fluid Kit for 96.96 and			Referenced throughout manuscript as "control line fluid"
FlexSix IFCs	Fluidigm	89000021	
DNA Suspension buffer	TEKnova	T0021	
domed PCR caps			
Exonuclease I	New England BioLabs	M0293L	
Exonuclease I reaction buffer	New England BioLabs	B0293S	
FLEXsix DELTAgene Sample Reagent	Fluidigm	100-7673	referenced throughout manuscript as "sample reagent"
FLEXsix Gene Expression IFC	Fluidigm	100-6308	referenced throughout manuscript as "Multi-Array Chip"
Fluidigm Real-Time PCR Analysis User Guide	Fluidigm	68000088	This is the protocol used as a basis for section 2 of the protocol, referenced within the manuscript.
IFC Controller MX	Fluidigm	68000112 I1	Referenced throughout the manuscript as "nanofluidics PCR priming machine"
IFC Controllers SOFTWARE	Fluidigm	100-2297	Contains all software and scripts required for running the IFC controller MX
liquid nitrogen in dewar			
Microcentrifuge	StarLab	C1301B-230V	Used to spin down PCR tube strips in the protocol.
Nuclease Free Water			
plate spinner	Labnet	K4050725	mini plate spinner, mps 1000. referenced through the protocol as "tabletop plate spinner"
Power SYBR Green Cells-to-Ct kit	invitrogen	4402955	This kit is that which is adapted for use in nematodes in the Worm-to-CT protocol. Contense: Store Stop Solution, DNase I and 20X RT Enzyme Mix at -20°C. Store Lysis Solution, 2X SYBR RT Buffer (referenced throughout the manuscript as RT buffer), and Power SYBR®Green PCR Master Mix (referenced throughout the manuscript as PCR Master Mix). This Kit is for 400 reactions, kits also available for 40 and 100 reactions.
PreAmp Master Mix	Fluidigm	100-5580, 100-5581	
Reverse Transcription Master Mix—480 reactions	Fluidigm	100-6299	One tube also available for 96 reactions (PN100-6298)
Rnase Free water			
SsoFast EvaGreen Supermix with Low ROX	Bio-Rad Laboratories	172-5211	referenced throughout the manuscript as "fluorescent probe supermix"
Standard 96 and 384-well Thermal Cycler			
TE Buffer (10mM Tris, pH8.0, 1.0mM EDTA	TEKnova	T0224	Referenced throughout the manuscript as Tris-EDTA buffer

ThermoMixer C	Eppendorf	5382000031	Referenced throughout the text as "thermal mixer"
Trizol	Thermo-Fisher	15596026	Referenced through the protocol as "guanidium thiocyanate-phenol-chloroform"
Warm water bath			



Babraham Institute

21st February, 2020

Dear Dr. Cao:

We are submitting a revised version of the **JoVE61132** manuscript entitled "*A protocol for high-throughput quantitative RT-qPCR in single C. elegans using nanofluidic technology*"

We want to thank the editorial team and the reviewers for bringing up important issues related to both the manuscript and the pipeline. We have addressed all comments, highlighted changes in the manuscript and added responses to each point in this letter.

Review Editor

Editorial comments:

Changes to be made by the author(s):

- We have proofread the manuscript to ensure that there are no spelling or grammar issues.
- We have added email addresses for each author in the manuscript to lines 21-23.
- We have eliminated commercial language. This includes trademark symbols (™), registered symbols (®) throughout the manuscript, and company names before an instrument or reagent and referenced all commercial items in the Table of Materials.
 - The one exception we have made to this is in reference to the user guide referenced on line 262
- We have edited out personal pronouns (e.g., I, you, your, we, our) or colloquial phrases throughout the protocol.
- We have referred to actions in the imperative tense in complete sentences wherever possible.
- At the beginning of this protocol, on lines 120- 122, it is now specified that “Throughout this protocol, every time the word “worm” is used, this is in reference to the nematode *Caenorhabditis elegans*.”

- The numbering throughout the protocol has been corrected.
- We have highlighted in yellow up to 2.75 pages (no less than 1 page) of protocol text (including headers and spacing) to be featured in the video.
- We have referenced all figures and tables in the manuscript in order of appearance.
- We have used neutral tone when discussing commercial products. And have altered the referencing to give full journal names
- We have changed the time unit “sec” to “s” and abbreviated liters to L (L, mL, μ L) **Figure 1** and **Figure 2**. We have also included a space between all numbers and the corresponding unit: 0.2 μ L, 37 °C, etc.
- We have defined error bars as standard error of the mean in the legend of **Figure 3**.
- We removed any TM/[®]/[©] symbols from the Table of Materials and sorted materials alphabetically.

Reviewers' comments:

Reviewer #1:

Manuscript Summary:

Authors provide a detailed protocol of a high throughput Rt-qPCR method which allows for obtaining cDNA from individual worms, as well as from bulk samples. The method relies on reliable existing technology, expanding protocols applied to cell cultures, and it could be of interest to other C. elegans researchers. Authors support the suggested protocol by original data, proving the method's applicability and efficiency.

- We have added clarity to the fact that our protocol relies on existing technologies and is in fact a novel adaptation of existing methods, this has been addressed, for example, in line 42 of the abstract.

Major Concerns:

General

C. elegans needs to be italicized everywhere. Manuscripts needs language editing for typos, syntax errors, punctuation and similar issues. Moreover, especially in the Introduction, several periods are too long for no reason and without making sense. Please break them down into smaller periods with connecting sentences when necessary. Representative example: lines 88-92. A list of Materials needed would be much appreciated before or at the beginning of the Protocol.

We thank the reviewer for pointing out these issues, we have corrected everything, except that Jove requires the list of materials to be provided as a separate document.

Lines 538-539: It is a strong statement to say that technical replicates are not necessary. What authors' results reveal by comparing biological to technical replicates CV is that the method is very reliable and robust, which is great. Authors can highlight this advantage. But to show this, technical replicates were needed. And are needed in every run. Consider for example if something in future applications goes wrong (because of system failure, temperature control not working, etc), how is the user going to know without technical replicates? Technical replicates cannot be

replaced by biological replicates, because these two serve different purposes. I suggest authors remove this comment.

We thank the reviewer for bringing up this point. We agree with the reviewer that for bulk-PCR applications, technical replicates are of paramount importance to ensure reproducibility and we have added a sentence in line 527-8 to highlight this issue. However, when stepping into single-cell biology, technical replicates only add up cost to the experiments without adding value to parameter inference such as coefficient of variation and mean expression. This has been highlighted by many studies that are based on nanofluidics PCR platforms. For example, Ståhlberg *et al*, 2014 writes: “qPCR replicates are generally not performed, since they add to the cost of the experiment and do not really improve precision, since the reproducibility of qPCR generally is very high. Rather, qPCR replicates may compromise precision if the pre-amplified cDNA has to be divided into a larger number of aliquots, since this will increase sampling ambiguity. If there is space on the qPCR platform, then it is better to analyze more cells than running technical replicates”. The same issue is brought up by and Livak *et al*, 2013.

We have highlighted this point in **Figure 7**, where we have used 3 technical replicates to estimate technical versus biological variance and clearly demonstrated that technical variance (blue points: variation between technical replicates) is smaller relative to biological variance (red points: variation between worms). We have performed additional experiments, which will be published elsewhere (Chauve *et al*, in preparation), where we used 30 samples each containing a total of three technical replicates were used to estimate statistical parameters such as mean expression and biological variance. The results of these experiments indicated that using technical replicates does not change parameter estimation. The number of single-worms that are required per experiment may vary depending on the biological variability of the sample, but we have estimated that 50 individual worms (biological replicates) are sufficient to provide robust parameter estimations, comparable to 90 individual samples. These results will be published elsewhere.

Minor_Concerns:

Abstract

I am not sure I would call the method novel, as the main steps are the ones suggested by the kit manufacturers and BIOMARK system guidelines. Maybe it would be more appropriate to call it a novel application or a novel expansion of an existing methodology, or something along these lines. Word "pipeline" appears a little too often; maybe the authors can find an alternative term.

Keywords

Are the authors sure that keyword "pooled worms" is useful, especially for a methods paper that on its title has "in single C. elegans"?

- The title (line: 2) has been adjusted to be inclusive of both single-worm and bulk worm samples.

Introduction

Line 61: cells in hermaphrodite C. elegans are 935, it is a number usually reported.

- The number of cells has been adjusted in line: 68

Lines 62-63: Reconsider this phrase or consider rephrasing it. It is not the hermaphroditism alone, but it is the latter in combination with the preferred self-fertilization that leads to isogenic populations. This is prominent in laboratory-maintained populations. (The term passage is more common for cell cultures, in my knowledge).

- The sentence regarding the cause of isogenicity has been adjusted to improve clarity on lines: 69-71

Lines 74-75: please rephrase, the message is unclear.

- The sentence regarding lowly transcribed transcripts falling below detectable levels in single-worm samples was rephrased for increased clarity on lines: 82-83

Line 84: replace "from" with "by".

- The word “from” was replaced with the word “by” on line: 92

Line 99: "will be published elsewhere": sure, but maybe a one-sentenced description can be spared? Or why such a specialized algorithm would be necessary?

We have collaborated with collaborators that have created a Bayesian approach that extracts technical noise from biological samples. The software estimates biological variance in a more accurate and sensitive manner. The publication should be available shortly.

Protocol

Lines 105-107: too long a period.

Mapped plans: maybe pre-made plans?

- The original sentence previously on lines 105-107 has now been split into two shorter sentences spanning lines 113 to 115.
- The phrase mapped plans have been changed to pre-made plans throughout the manuscript.

Line 136: using instead of utilizing

- On line 151 the word utilizing removed and the sentence was reworded.

Please list the manufacturers. Please add a sentence or two comparing this to the manufacturer's suggestions, so that the reader knows in what sense what you propose is different that their guidelines.

- A list of the manufacturers cannot be provided in the manuscript as there is a limit on commercial language, however, all details are provided in the Table of Materials.
- Comparisons with the manufacturer's protocol have been made on lines: 219, 224/225, 278, 297/298 and 320/321

Line 40: prepared, instead of made up.

- The phrase made up has been replaced with prepared on line: 167

Line 144: briefly centrifuge: spin down?

- The phrase "briefly centrifuge" has been replaced with "spin them down for 5 second" on line 171

No incubation in RT before step 2.3?

- There is indeed no incubation prior to step 2.3

For step 2.3, consider using rubber bands to keep the strips in place

- For step 2.3 a caution has been given suggesting the use of rubber bands to keep the strips in place on lines 180/181.

Step 2.3: why 10 times? For DNA extraction 1 time is enough, why is this different? Plus, authors need to define the time intervals: for how long (secs) in liquid nitrogen? How long in water bath?

- 10 freeze thaws were chosen we determined that was the best number of freeze thaw cycles that break the cuticle.
- Time intervals for the freeze-thaw were defined in a note added following step 2.4 on lines 186/187 and 191/192

*Step 2.4: vortex or mix? Or rock? Is it thermoblock or cold block? (see your line 159)
Line 159: adjust the "vortexed" if needed*

- On lines 194 and 197 the word "vortexed" was replaced with the word mixed.

Line 162: for short term storage would -20degrees be enough?

- Although the Cell-to-CT kit suggests either -20°C or -80°C can be used here, we would strongly suggest -80°C as the worm itself being dissolved releases a large volume of RNase into the solution and therefore -80°C would be safer to protect the RNA from RNase induced degradation.

Section 3.1: how is this different than manufacturer's protocol?

- Notes have been added following section 3.1 on lines 219 and 224/225 to detail the differences of our steps as opposed to the steps detailed by the manufacturer.

Step 3.1.1: Use periods. Maybe last sentence could be a NOTE.

- The period of step 3.1.1 on lines 214-215 was shortened and the last sentence was moved to a NOTE following the step on line 217.

Line 181: a negative control (instead of minus control). Please double check the volumes: maybe water should be the equivalent of the sample, not the enzyme mix.

- On line 227 the phrase 'a minus control' was changed to 'a negative control'.
- On lines 227/228 we changed the solution with a volume equivalent to the sample from the enzyme mix to water

Step 3.1.3: What about hold at 4degrees as a final step?

- For step 3.1.3, on line 231, a hold at 4 was added to the end of the thermocycling programme.

Step 3.2.1: what is the volume of the sample?

- Regarding step 3.2.1, on line 240, a volume of 11 was added as the total volume of the sample up to that point.

Step 3.2.2: The / are confusing. Please replace.

- For step 3.2.2, on line 247, the symbol '/' was removed.

Line 204: remove "from this".

- On line 257 the words “from this” were removed and the sentence was moved to a NOTE

Line 208: When qPCR is performed on a pool of worms ...

- The phrase “if you are performing qPCR on a pool of worms” on line was replaced with “when qPCR is performed on bulk worm samples” on line 249.

Line 210: a 1:4 ratio in the final solution

- The phrase “give a 1:4 ending solution” was replaced with “give a 1:4 ratio in the final solution” on lines 252/253

Step 3.4.5: this is identical to step 3.2.3

- Step 3.2.3 (line 249) has been altered for clarity not just containing the dilution step and step 3.4.5 has been changed into a note suggesting storage of the cDNA (lines 257/258).

Line 253: Add the final hold step at 4 degrees.

- A hold step at 4 degrees was added to the end of a thermocycling programme on line: 259

Line 256: Maybe authors can give here an example of the genes they have tried this on.

- Giving examples of genes we have tried on this would run the risk of divulging sensitive information to which we may publish elsewhere therefore examples were not given as they were not deemed necessary for comprehension.

The primers and identity of the genes utilized in this study are listed in the methods table.

Line 287: replace map with plan?

- On line 332, the word “map” was replaced with the word “plan”

Line 304: This step is recommended by both ...

- The clarity this line was increased letting the reader know that the recommendation can be applied to both types of chip and moved to line 409 to increase relevance.

Line 348: hold the tip of the syringe away

Line 348: to avoid spillage

- On line 386, the phrase “hold the end syringe away from the center of the chip in case of any spillages” was replaced with “hold the tip of the syringe away to avoid spillage.”

Line 398: What is the difference between the two?

- The note originally on line 398 was removed.

Line 421: For statistical evaluation

- On line 463. The phrase “for statistical testing” was replaced with “for statistical evaluation”.

Line 430: a brief heat shock: provide time and T

- On line 569, a time of 30 min and temperature of 34 °C was added.

Figure 3, a comparison between N2+Trizol and N2+WtoCt would be appropriate. Same for the hsf1 strain. Moreover, authors should clarify whether all animals compared were subjected to the heat shock simultaneously, i.e. during the same treatment.

Shown in **Figure 3** is the comparison of bulk worm samples, where the RNA was either extracted by Trizol or using Worm to Ct. Two strains were analyzed in parallel: N2 and *hsf-1(sy441)* and those samples were exposed to heat shock simultaneously and harvested in parallel. To address the reviewer point, we have compared *hsp-70* mRNA levels in N2 +Trizol and N2 +WtoCt and similarly for *hsf-1(sy441)*. We have updated line 473 when describing the results of **Figure 3**. We noted that the yield was larger when using Worm-to-Ct method, but the differences among heat shock and non-heat shocked animals remains comparable.

Figure 5: Re 33 worms tested for each condition? Please clarify. What are the dots? Boxplots: is the horizontal line the median? Consider a scatter plot, where all data points will be shown in addition, or consider superimposing the data points. Prism 8 should allow you to do this. Fig. 5B: Horizontal axis: what does it show? Units? Explain the legend: shsps are small hsps? What are variable and flat?

We have changed the boxplot in **Figure 6A** to a scatter plot superposed to a box plot and added in the legend that 33 individual worms were tested for each condition. We have updated **Figure 6B**: vertical axis= coefficient of variation, which is a dimensionless number (CV=standard deviation divided by the mean). The legend of figure 6 explains how the CV is calculated and that it is used to measure inter-individual variability in gene expression.

Discussion

Line 550: Have the authors also calculated the cost of purchasing the BIOMARK system?

In the discussion, we have made a note on cost-effectiveness, conditional on having access to a BIOMAK machine (line 659).

Line 554: I think unbiased is not the intended term here. Maybe the overall picture?

We think that RNA sequencing provides an unbiased picture of all transcripts present, as opposed to selecting specific transcripts to study, which is in itself a bias.

Line 567: Is this not solved by spinning down?

This problem is usually resolved by spinning down, but it occasionally fails.

Line 574: Maybe the authors can expand a little here, regarding the tissues to be used with the proposed method? What kind of tissues, i.e. fragmented samples? Old tissues? Tissue that contains a limited population of the targeted cells? This is important to help identify potential applications of the suggested protocol.

We have added the following paragraph at the end of the discussion:

Line 677 onwards. “Together, this versatile and reliable pipeline offers increased throughput and sensitivity compared to more standard techniques. This method can be very useful for validation of high-throughput screens and is an excellent choice to either monitor or validate single-worm gene expression levels. We also foresee that this method can be applied to other challenging techniques, such as the quantitation of gene expression from isolated tissues. For example, isolation of full tissues such as the intestine, gonads or of cells isolated by FACs provides enough material to perform RNA sequencing experiments. However, limited amounts of material often lead to duplicated reads which precludes quantitation of rare transcripts. In this scenario, using nanofluidics based technology should provide added sensitivity to these experiments and increase cost-efficiency if the researchers need to monitor only a subset of all transcripts in those tissues or cells”

Reviewer #2:

Manuscript Summary:

The authors described an efficient and rapid method to extract RNA from single or small number of C. elegans and to perform RT-qPCR by combining the high-throughput nanofluidic technology. This method would benefit the worm community for high-throughput gene expression analysis under single worm level.

This manuscript is qualified to publish on JoVE after some minor revisions and additional copy-editing.

Major Concerns:

1. The authors should describe how they preparing the worm sample in their protocol. Like do they wash the worms before loading to the buffer for avoiding the bacteria contamination?

We have added more details about this in the protocol:

Line 153. “2.1 Pick the worms from their bacterial lawn onto a fresh unseeded NGM plate and allow the worms to move around the plate for 10 minutes in which time most of the bacteria should be cleaned from the worm through movement. Pick the worms from the plate into the lysis mix by “scooping” them, i.e. by catching the worms underneath with the pick, to avoid bacterial contamination.”

2. For the table 1 and 2, can they include the one with data they used for their representative results to replace the empty ones?

We prefer to keep the tables empty to be filled by the user.

Minor Concerns:

1. For 2.3 (line 153), what is the temperature of the warm water bath?

In line 183, point 2.4, we have added that the temperature of the water bath is 40C.

2. For 3.1.3 and 3.2.2 (line 185 and line 201), should use the same way to describe the thermocycler programs.

The programs are different for single-worms or bulk samples. We are now describing two different protocols in the same way.

3. Line 214, the 3.4.5 should be 3.2.5?

We have corrected the issue.

4. Miss label of step No. 4.

In line 270, we have corrected this issue.

5. Line 255 NOTE. Would be better to describe detailed why and in what circumstance they recommend 10 or 15 cycles.

Fluidigm recommends using pre-amplification cycles between 10 and 20. In our experience, we have used 10 cycles and 15 cycles pre-amplification. We obtained similar results in both cases. However, we encountered one case where the levels of gene expression were too high with 15 cycles pre-amplification that the measurement were “saturated” and unusable (were classified as

failed in the results). This was the case for highly expressed transcripts, such as vitellogenins in day 2 adult animals. Therefore, we would recommend using 10 cycles by default, without knowledge of the expression levels, and 15 cycles if the expression levels are low (for instance for inducible chaperones at basal levels. We have added a note about this in the protocol.

6. Line 276 NOTE. What does the Fluidigm suggestion mean? Why 5, 10, 20-fold?

The dilution has to be experimentally tested by the user, it depends on the targets of each experiment.

7. Figure 5B. not clear what is the label "shortHS.csv\$family" mean.

We have eliminated this label to avoid confusion.

Reviewer #3:

Manuscript Summary:

The manuscript by L. Chauve, J. Le Pen et al. presents a high throughput protocol for quantitative RT PCR in worms that circumvents the need for RNA extraction. The protocol is using commercial

Major Concerns:

The authors do not address the relative benefits of the presented method compared to the one published by Ly et al in 2015 (Rapid RNA analysis of individual Caenorhabditis elegans. MethodsX) It seems the Methods described in 2015 requires less hands-on time for the lysis step. The question that is raised is therefore if there is a significant yield difference between the two approaches in a comparable set up.

This is a good reference to compare our method against. We have added the following paragraph to the discussion:

Lines 638-652. "When considering the choice of method to prepare cDNA from single worms, Ly et al have optimized a protocol that relies on proteinase-K for cuticle digestion. The cuticle is a major hurdle for the isolation of molecules from worms and proteinase K provides an effective method to break it. However, the disadvantage of using proteinase K, is that it has to be heat-inactivated to be able to use enzymes for reverse transcription. While Ly et al used a 10 minutes exposure to 96 C, we avoided this step because RNA is easily degradable. Instead of using proteinase K, we used repeated freeze-thaw cycles to break the cuticle. We believe that the freeze thaw is an effective method to break the cuticle because we can isolate more RNA per worm. Ly et al report that the total RNA extracted per worm is 35ng, whereas we obtain 51.75 +/- 6.74 SEM of total RNA per worm. We believe that avoidance of heat exposure coupled with pre-amplification steps, widens the Worm- to- Ct's dynamic range of detection compared to standard protocols. Ly et al reports and absolute Ct values of 21.1 +/- 0.15 for *hsp-16.2* and 22.8 +/- 0.17

for *hsp-70* after heat shock. Using the same heat shock condition (1h at 30 degrees), we obtain absolute Ct values of 17.93 +/- 0.57 for *hsp-16.2* and 21.13 +/-0.33 for *hsp-70*. This indicates that our lysis method provides higher yields of RNA and is more appropriate for lowly expressed transcripts.”

Minor Concerns:

Figures 1 and 2 are identical up to the cDNA synthesis step. It seems more confusing than helpful as the distinction between single worm and pooled worms protocols is harder to pin point. These two figures should be consolidated in a way that highlights the difference between the two applications of the protocol.

We have changed **Figures 1 and 2** to make the differences more clear.

Since the two protocols are provided it would also be interesting to provide a comparison of the CT obtained between bulk and single worm assays. One would expect a direct correlation in detection level depending on the amount of source material. Since the single worm protocol is so efficient it would also be interesting to have the author's opinion on when a "pool" approach may still be useful.

We have added in **Figure 7** a direct comparison of mRNA expression levels using the Worm to Ct method obtained from either the bulks protocol (from 25 pooled worms) or from an average calculated from single worms. The mRNA levels for 3 transcripts (*hsp-16.1*, F44E5.4 and *hsp-70*) are normalized per worm in each case. As depicted in the figure, the levels obtained are comparable when the data is presented as the average per worm in each case. The application of single worm versus bulk-samples really depends on the question that the researcher wants to address. For most applications, bulk-samples are adequate.

In figure 5A rather than presenting the box plot a figure presenting all the data points should be selected to allow better visualization of the sample dispersion between individuals.

We have updated the graph presented in **Figure 6A** as a scatter plot superposed with a boxplot, as requested also by reviewer #1.

In figure 5B similarly before showing the data transformed into CV it would be more straightforward to display the raw values obtained for each replicate. As the authors seem convinced that the RT PCR step is very reproducible within one sample it would be interesting to discuss how one can insure that inter individual differences observed are not caused by variation in RNA recovery or lysis efficiency rather than biological differences. Perhaps by comparing homogeneity or result between individual worms and different sizes of worm pools that should average those individual differences if they are indeed individual expression differences rather than extraction yield artifacts (that should be dampened by increasing the pool size).

We are now presenting the raw values obtained 28 individual worms in **Figure 6A**, before showing the Coefficient of variation for those transcripts in **Figure 6B**. The previous figure 5C has been updated to **Figure 7**. Gene expression is normalized by a set of highly stable genes, so technical differences in the size or preparation of the worms is eliminated using this step. If indeed, it was the case that most of the variability was technical, we would expect all genes tested to be highly variable, but as it is evident in **Figure 6A**, only transcripts from the inducible heat shock family of proteins is variable. We have used additional methods to verify this data, which will be published elsewhere. In addition, we have added **Figure 5**, where we have compared the expression values of 3 small heat shock protein transcripts measured using bulk-samples and an average of 30 individual worms. The expression levels are comparable, indicating that technical variance related to individual animals is not at the core of measured values.

Dear Dr. Casanueva,

Your manuscript, JoVE61132R1 "A protocol for high-throughput quantitative RT-qPCR in single and bulk *C. elegans* samples using nanofluidic technology," has been editorially reviewed and the following comments need to be addressed. Please track the changes to identify all of the manuscript edits. After revising the submission, please also upload a separate document that addresses each of the editorial comments individually with the revised manuscript.

Your revision is due by **Mar 03, 2020**.

To submit a revision, go to the [JoVE submission site](#) and log in as an author. You will find your submission under the heading "Submission Needing Revision". Please note that the corresponding author in Editorial Manager refers to the point of contact during the review and production of the video article.

Best,

Xiaoyan Cao, Ph.D.

Review Editor

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We thank the editor for all the comments on the manuscript. Below is how we have addressed them in the version of the manuscript that was sent by the Editor.

Editorial comments:

1. Please note that the editor has formatted the manuscript and made changes to the protocol (updated numbering, combined shorter steps, highlighted additional steps for continuity) according to JoVE guidelines. The updated manuscript is attached and please review for accuracy and use this version to incorporate the changes that are requested.

We have checked the accuracy of the edits (step 2.2, 2.3 and 2.4) lines 173 to 193

2. Please address specific comments marked in the attached manuscript.

We have addressed these comments through the manuscript.

- We have updated TRIZOL for guanidium thiocyanate-phenol-chloroform throughout the protocol and we have updated the Table of Materials.
- We have updated references 16 to 20 to ensure they are in the correct order (see lines 128 to 156)
- We have changed TE buffer for Tris-EDTA buffer in the protocol (see line 307-8)
- We have changed Eva green supermix into fluorescent probe supermix with low ROX, lines 344 and 356
- We have updated the volumes of the total loading assay, line 326 and 336
- We have replaced the word "overage" by surplus throughout the protocol (lines 326 and 336) and in figure 1/2
- Unfortunately, we could not find the spelling out of the passive reference dye ROX. It seems that it always simply refers to ROX in the manuals and protocols (see <https://www.thermofisher.com/order/catalog/product/12223012#/12223012>)
- Unfortunately, we could not indicate the speed of the centrifugation in step 5.4 and 6.2, as it deals with a tabletop plate centrifuge with only one possible speed. We have updated the Table of materials with its reference and we have added the precision: centrifuge with the tabletop plate spinner in steps 5.4 and 6.2, lines 285-6 and 301-2.
- We have specified RNase free water in step 3.2.3, line 255
- We have specified 5.4 uL per well in step 7.2.1, line 332
- We have modified 4uL to 6uL in step 7.2.2, line 336
- We have verified the step number reference in step 8.1.2 (line 350) and in step 8.2.2 (line 360)
- We kept the sentence "with the barcode facing outward" in step 9.3 (line 381), which is the step where the chip is loaded into the controller. We could not include it to section 10, as this section deals with the loading of the reagents (samples and assay mixes) into the wells of the nanofluidic chip.

3. Please cross check Figure 1/2 and protocols to ensure that experimental details mentioned there match each other.

We have updated figure 1 to ensure its description matches the protocol. In particular:

- we have changed 10 min for 5 min in figure 1, in order to match the protocol (line 165)
- we have also modified figure 1 so that the stop solution is added at the end of the lysis of the worm, and not during RT. It now matches the protocol
- we have changed 1.24 uL to 1.25 uL of RT mix in figure 1 so that it now matches the protocol, line 223.
- we have changed 90C for 95C in figure 1 for the RT program, so that it matches the protocol

4. Figures: Please replace commercial language with generic terms (SYBR, Biomark, Trizol, EvaGreen Supermix, etc.).

-we have replace Evagreen, Biomark, HX controller, SYBR RT buffer by fluorescent probe supermix, nanofluidics thermocycler and nanofluidics PCR priming machine and RT buffer respectively

-in figure 3, we have replaced TRIZOL by phenol chloroform in the figure and by guanidium thiocyanate-phenol-chloroform in the legend of figure 3, lines 535 to 543.

5. Table of Materials: Please remove any TM/[®]/[©] symbols.

We have removed all commercial symbols from the Table of Materials

Transcript	Transcript Length	Forward Start Position
2L52.1	1284	608
2RSSE.1A	1301	637
3R5.1A	810	312
3R5.1B	806	320
4R79.1A	1035	741
4R79.1B	570	276
4R79.2A	1188	142
4R79.2B	936	368
AC3.10	1224	214
AC3.1	1068	874
AC3.14	149	38
AC3.2	1831	446
AC3.5A.1	3432	354
AC3.5A.2	3477	399
AC3.5B	3477	399
AC3.6	987	265
AC3.7	1711	960
AC3.8	1687	925
AC7.1A	1286	508
AC7.1B	1259	508
AC7.2A.1	2163	719
AC7.2A.2	2366	922
AC7.2B	2268	824
AC7.2C	2310	866
AC7.2D	2046	602
AC7.3	711	128
AH10.1	1760	149
AH10.3	563	328
AH6.10	1194	618
AH6.11	990	756
AH6.12	1053	601
AH6.1	3414	929
AH6.2	1064	496
AH6.3	791	200
AH6.4	1091	296
AH6.5	1902	90
AH6.7	1037	757
AH9.1	1604	612
AH9.2	1146	625
AH9.3	959	473
AH9.4	1364	797
AH9.6	999	615
AH9.7	871	332

B0001.10	297	172
B0001.1A	995	47
B0001.1B	877	491
B0001.1C.1	697	318
B0001.1C.2	877	491
B0001.2	2921	2162
B0001.3A	1969	134
B0001.3B	1921	134
B0001.4	1136	39
B0001.5	1860	844
B0001.6.1	2202	1396
B0001.6.2	2345	1539
B0001.7A	2614	647
B0001.7B	2626	647
B0001.7C	554	81
B0001.8A	1660	975
B0001.8B	1651	975
B0019.1	2357	86
B0019.2	2345	1344
B0019.4	403	72
B0024.10	1835	713
B0024.1	1048	121
B0024.11	1818	735
B0024.12	624	246
B0024.13	1022	313
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B0024.14C.1	1511	934
B0024.14C.2	1213	934
B0024.14D	3000	941
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B0024.14F	2911	864
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B0024.17	144	17
B0024.2	978	105
B0024.3	875	193
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B0024.6B	3261	1746
B0024.8A	3939	2074
B0024.8B	2163	298
B0024.8C	1896	31
B0024.8D	1890	89

B0024.9A	1034	191
B0024.9B	1034	191
B0025.1A	2802	2499
B0025.1B	2224	1921
B0025.1C.1	2802	2499
B0025.1C.2	2790	2487
B0025.2.1	1630	1269
B0025.2.2	1637	1276
B0025.4	585	320
B0025.5	323	184
B0034.12	140	30
B0034.15	134	11
B0034.16	276	159
B0034.1	963	322
B0034.2	120	1
B0034.3A	3443	159
B0034.3B	1036	127
B0034.3C	932	23
B0034.4	692	151
B0034.5	1106	340
B0034.8	202	57
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B0035.14A.1	1667	635
B0035.14A.2	1695	663
B0035.14B	723	93
B0035.15	1121	576
B0035.16	1135	1005
B0035.18	273	63
B0035.19	144	43
B0035.1A	1201	355
B0035.1B	1215	355
B0035.2	1255	56
B0035.3	833	310
B0035.4	548	51
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B0035.6	2486	2124
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B0041.11.2	550	445
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B0041.2B	2798	234
B0041.2C.1	2938	94
B0041.2C.2	3078	234
B0041.2D	2448	199
B0041.3	721	261
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B0041.5	1529	989
B0041.7	4506	728
B0041.8.1	756	323
B0041.8.2	865	429
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B0047.1B	1018	456
B0047.2	888	344
B0047.3	807	378
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B0198.2B	1162	212
B0198.3A	3413	1678
B0198.3B	344	88
B0198.6	215	74
B0198.9	214	62
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B0205.1B	2461	1170
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B0205.2B	990	240
B0205.3.1	1273	175
B0205.3.2	1297	199
B0205.4	1362	513
B0205.6	1428	209
B0205.7	1467	179
B0205.8	512	111
B0205.9	1915	429
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B0207.12A	1251	796
B0207.12B	1457	878
B0207.12C	720	233

B0207.2	692	364
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B0207.3B	1227	547
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B0207.6	974	394
B0207.7	1122	1038
B0207.9	463	94
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B0212.1B	2259	44
B0212.1C	2135	218
B0212.2	1189	644
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B0212.4B	1340	370
B0212.4C	1133	163
B0212.4D	572	69
B0212.5	2875	1132
B0212.7	225	16
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B0213.11B	1577	1087
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B0213.16	1571	1023
B0213.17	260	21
B0213.2	603	333
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B0213.9	1103	595
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B0218.1A.2	1835	493
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B0218.1A.4	1884	542
B0218.1B.1	1660	516
B0218.1B.2	1640	496
B0218.1B.3	1631	487
B0218.1B.4	1689	545
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B0218.3	1651	646
B0218.5	1107	391
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B0218.6B	1208	436
B0218.7	1072	552
B0218.8	989	814
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B0222.2	1434	1218
B0222.3	1618	710
B0222.4	1774	624
B0222.5	1522	290
B0222.6	953	69
B0222.7	901	50
B0222.9	3849	2086
B0228.1	737	231
B0228.4A	5200	4630
B0228.4C	23416	22846
B0228.4D	4465	1204
B0228.4E	8407	7837
B0228.5A	557	248
B0228.5B	598	289
B0228.6	882	216
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B0228.7.2	966	120
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B0228.9	1332	446
B0238.10	1044	119
B0238.11	1119	805
B0238.1	1800	675
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B0238.15	263	12
B0238.3	843	584
B0238.5	971	833
B0238.6	972	550
B0238.7	1737	375
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B0240.4	1975	1623

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B0244.7	960	454
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B0250.7B	216	73
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B0250.9	1492	98
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B0252.2	1828	1322
B0252.3A	1057	653
B0252.3B	1599	385
B0252.3C	1563	349
B0252.4A	447	10
B0252.4B	621	419
B0252.5	964	777
B0261.1	2622	2111
B0261.2A	8562	3299
B0261.2B	8553	3299
B0261.4A	931	566
B0261.4B	931	566
B0261.5	606	427
B0261.6A	595	34
B0261.6B	255	6
B0261.7	1159	460
B0261.8	648	347
B0261.9	504	291
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B0272.3	1055	378
B0272.4	868	322
B0273.115	410	183
B0273.1A	765	338

B0273.4A	3025	1587
B0273.4B	2146	510
B0273.4C	3107	1669
B0273.4D	2701	1263
B0273.4E	2548	1110
B0273.4F	2423	985
B0280.10	1152	877
B0280.11	1390	609
B0280.12A	2727	1803
B0280.12B	2934	2010
B0280.17	909	146
B0280.19	148	12
B0280.1A	1157	775
B0280.1B	2236	775
B0280.20	148	22
B0280.3.1	950	55
B0280.3.2	987	92
B0280.5	1729	19
B0280.7	1152	565
B0280.8	1541	963
B0280.9	1400	874
B0281.3	1067	263
B0281.4	696	430
B0281.5A	782	395
B0281.5B	629	331
B0281.6	732	284
B0281.8	879	512
B0284.1	1663	146
B0284.2	1399	796
B0284.3	612	337
B0284.4	1263	145
B0285.10	1107	106
B0285.1A	2444	492
B0285.1B	2456	492
B0285.1C	2447	492
B0285.3	1038	155
B0285.4	1152	241
B0285.5	2198	1800
B0285.6	1734	307
B0285.7	2864	1789
B0285.8	1259	275
B0285.9	1315	235
B0286.1	1020	160
B0286.2A	4369	304

B0286.2B	1934	396
B0286.3	1447	1062
B0286.4A.1	1599	15
B0286.4A.2	1883	299
B0286.4B	1327	394
B0286.4C.1	1468	15
B0286.4C.2	1619	15
B0286.4C.3	1532	599
B0286.4C.4	1746	293
B0286.4C.5	1312	379
B0286.4D.1	1292	359
B0286.4D.2	1532	599
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B0286.6	914	237
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B0302.1B.1	3721	3174
B0302.1B.2	3961	3414
B0302.1C	1780	849
B0302.2	409	298
B0302.5	755	223
B0303.11	2911	824
B0303.14	1585	860
B0303.15	690	52
B0303.16	927	648
B0303.2	978	651
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B0303.3.2	1916	926
B0303.4.1	2184	529
B0303.4.2	2276	621
B0303.7A	1758	436
B0303.7B	1743	421
B0303.9	1989	4
B0304.1A	1050	33
B0304.1B	1062	33
B0304.1C	1084	33
B0304.2	825	35
B0304.3	1719	71
B0304.4	625	336
B0304.5	1047	523
B0304.6	992	487
B0304.7	1068	420
B0304.8	1020	775

B0304.9	1065	632
B0310.1A	795	535
B0310.1B	999	739
B0310.2	1573	886
B0310.3	1322	1117
B0310.5	1779	1087
B0331.1	1587	309
B0331.2	1636	190
B0334.10	549	293
B0334.1.1	543	65
B0334.11A	1580	1265
B0334.11B	1574	1259
B0334.1.2	571	91
B0334.13	512	178
B0334.15	694	52
B0334.17	142	47
B0334.20	206	37
B0334.2A	954	7
B0334.2B.1	1017	676
B0334.2B.2	1076	735
B0334.3A.1	2008	269
B0334.3A.2	2066	327
B0334.3B	2037	298
B0334.4	832	56
B0334.5	1414	718
B0334.6	1372	597
B0334.7	1017	755
B0334.8	3766	102
B0336.10.1	511	183
B0336.10.2	469	183
B0336.10.3	718	382
B0336.11A	1725	1029
B0336.11B	834	289
B0336.1	2788	2289
B0336.2.1	1212	63
B0336.2.2	1158	63
B0336.3	2674	742
B0336.4A	1983	1540
B0336.4B	1884	1441
B0336.5A	847	205
B0336.5B	857	206
B0336.6.1	1556	598
B0336.6.2	1566	608
B0336.7A	1572	351

B0336.7B	1548	327
B0336.8	430	204
B0336.9A	2338	245
B0336.9B	2272	185
B0336.9C	600	33
B0336.9D	2349	262
B0336.9E	571	300
B0344.2	1665	1447
B0348.1	264	36
B0348.2	308	29
B0348.4A	4978	2067
B0348.4B	5014	2067
B0348.4C	2223	915
B0348.5	765	194
B0348.6A.1	1098	325
B0348.6A.2	940	325
B0348.6B.1	1107	137
B0348.6B.2	949	137
B0348.6C.1	1104	137
B0348.6C.2	946	137
B0350.2A.1	6354	5153
B0350.2A.2	6462	5261
B0350.2B	2982	393
B0350.2C.1	5830	3061
B0350.2C.2	5938	3169
B0350.2D	2629	40
B0350.2E.1	5752	3061
B0350.2E.2	5860	3169
B0350.2F.1	21737	3079
B0350.2F.2	21845	3187
B0350.2G.1	3172	2238
B0350.2G.2	3280	2346
B0350.2H.1	5668	3079
B0350.2H.2	5776	3187
B0350.2I	3665	896
B0350.2J	3503	914
B0350.71	150	42
B0350.74	281	38
B0350.80	136	63
B0350.84	236	47
B0353.1A	556	333
B0353.1B	641	72
B0361.10.1	1133	148
B0361.10.2	733	148

B0361.11	1779	1507
B0361.2A	1480	505
B0361.3.1	2007	517
B0361.3.2	2065	575
B0361.4	1238	323
B0361.5A	1443	151
B0361.5B	1434	275
B0361.6	1336	73
B0361.7	1466	402
B0361.8	1537	171
B0361.9	1088	268
B0365.1	3400	388
B0365.3.1	3238	2597
B0365.3.2	3153	2597
B0365.5A	497	124
B0365.5B	429	104
B0365.6.1	1927	885
B0365.6.2	1955	885
B0365.6.3	1926	885
B0365.7	9828	4390
B0365.9	824	461
B0379.10	144	27
B0379.1A	804	455
B0379.1B	686	462
B0379.2	725	609
B0379.3A	3940	1698
B0379.3B	3928	1686
B0379.4A	1943	469
B0379.4B	1675	880
B0379.4C	895	617
B0379.6	405	200
B0379.7.1	1359	749
B0379.7.2	1307	697
B0379.9	267	80
B0391.11A	1177	860
B0391.3	963	368
B0391.4	1340	610
B0391.5	1143	878
B0391.6	1553	295
B0391.9	288	61
B0393.1.1	987	446
B0393.1.2	1019	478
B0393.13	138	48
B0393.16	146	72

B0393.2.1	2028	143
B0393.2.2	2121	236
B0393.3	2110	553
B0393.4	2554	578
B0393.5	3738	1230
B0393.6	1498	711
B0393.7	882	40
B0393.9A	714	157
B0393.9B	913	355
B0395.1	1613	649
B0395.2	1559	95
B0395.3.1	2028	516
B0395.3.2	2093	581
B0395.7	150	8
B0399.1A	2611	879
B0399.1B	2475	743
B0399.1C	1942	210
B0399.1D	2397	665
B0399.1E	2278	546
B0399.1F	2388	656
B0399.2	2012	1567
B0403.10	194	69
B0403.12	201	41
B0403.13	204	50
B0403.2	2238	466
B0403.3	818	697
B0403.4	1640	433
B0403.5	1856	997
B0403.6	927	427
B0403.9	141	32
B0410.2A	1904	1281
B0410.2B	1892	1269
B0410.3	858	361
B0412.1A	1377	28
B0412.1B	1334	334
B0412.2	1652	624
B0412.3.1	3403	3154
B0412.3.2	3406	3157
B0412.4	311	42
B0414.1	1059	729
B0414.11	149	33
B0414.2	1512	826
B0414.3	867	175
B0414.5	2806	127

B0414.6	2493	1720
B0414.7A	4430	169
B0414.7B	4368	169
B0414.8A	2281	1680
B0414.8B	2251	1680
B0416.10	737	535
B0416.1	3881	3392
B0416.2	637	76
B0416.3	974	135
B0416.4	760	480
B0416.5A	1979	1281
B0416.5B	1833	145
B0416.6	1715	433
B0416.7A	493	132
B0416.7B	321	118
B0432.10.1	1054	318
B0432.10.2	1486	750
B0432.11	628	95
B0432.12	581	186
B0432.13.1	1425	689
B0432.13.2	1491	1335
B0432.1	795	327
B0432.2	721	139
B0432.3	637	276
B0432.4.1	1078	407
B0432.4.2	1154	407
B0432.5A	1672	166
B0432.5B	1496	963
B0432.5C	1675	169
B0432.6	1086	551
B0432.7	1924	881
B0432.8.1	1064	344
B0432.8.2	1221	344
B0454.10	1073	838
B0454.1	1477	1119
B0454.13	137	17
B0454.26	501	325
B0454.2	975	765
B0454.3	1090	787
B0454.4	1011	710
B0454.5	617	298
B0454.6	1971	1490
B0454.7	1260	400
B0454.8	1927	1547

B0454.9	1135	592
B0457.12	561	478
B0457.16	214	75
B0457.19	351	218
B0457.1A	3638	281
B0457.1B	3632	390
B0457.1C	480	243
B0457.2	1150	267
B0457.4	885	632
B0457.6	584	75
B0457.8	123	38
B0462.3	983	482
B0462.4	398	139
B0464.1.1	1761	976
B0464.1.2	1782	997
B0464.2A	3920	3337
B0464.2B	845	43
B0464.2C	4055	3472
B0464.3.1	347	80
B0464.3.2	465	193
B0464.4.1	2033	269
B0464.4.2	2115	1
B0464.5A.1	3771	1446
B0464.5A.2	3605	1446
B0464.5B.1	2288	2061
B0464.5B.2	2339	2112
B0464.5C.1	2785	1231
B0464.5C.2	2619	1231
B0464.5C.3	2836	1282
B0464.5D.1	2624	132
B0464.5D.2	2476	151
B0464.5D.3	2458	132
B0464.5D.4	2484	159
B0464.6.1	2076	1587
B0464.6.2	2270	1781
B0464.7	555	99
B0464.8	1758	405
B0464.9	1181	359
B0478.1A	1552	48
B0478.1B.1	1449	1127
B0478.1B.2	1453	1131
B0478.1C	2217	12
B0478.3	456	315
B0491.1	1431	1060

B0491.2.1	1042	119
B0491.2.2	1027	104
B0491.2.3	1037	114
B0491.4	1522	502
B0491.5.1	1141	751
B0491.5.2	1119	751
B0491.5.3	1218	828
B0491.6A	1765	1533
B0491.6B	1686	1454
B0491.7	976	241
B0491.8A	3005	292
B0491.8B	2990	292
B0491.8C	2901	203
B0495.10A	2334	2038
B0495.10B	2259	1832
B0495.10C	2338	2088
B0495.12	130	5
B0495.15	142	42
B0495.18	149	16
B0495.20	144	47
B0495.22	147	9
B0495.2	2593	504
B0495.4	2058	1144
B0495.5.1	2276	295
B0495.5.2	2288	307
B0495.6	471	228
B0495.7.1	2994	16
B0495.7.2	2858	16
B0495.8A	1123	876
B0495.8B.1	379	113
B0495.8B.2	381	113
B0495.9	927	252
B0496.11	367	40
B0496.19	415	213
B0496.2	1126	765
B0496.3A	4762	3033
B0496.3B	5047	2966
B0496.3C	1689	740
B0496.3D	4975	3156
B0496.3E.1	5688	610
B0496.3E.2	5686	608
B0496.3F	4945	2966
B0496.3G	4783	2849
B0496.3H	4753	2849

B0496.3I	5090	3009
B0496.5	1298	214
B0496.6	717	456
B0496.7	441	172
B0496.8	1669	969
B0507.10	1430	584
B0507.11	939	368
B0507.1	1987	1288
B0507.14	193	65
B0507.15	821	125
B0507.2	1446	1119
B0507.3A	1443	1036
B0507.3B	1091	684
B0507.5A	645	372
B0507.6	2204	1665
B0507.8	1276	404
B0511.10	1720	60
B0511.1	1007	380
B0511.11	1736	480
B0511.12A	6894	4454
B0511.12B	6816	4376
B0511.13A	1735	1234
B0511.13B	1160	566
B0511.15	150	35
B0511.17	262	74
B0511.2	1407	71
B0511.3	867	579
B0511.4	1149	830
B0511.5	1003	552
B0511.6	1806	1539
B0511.7	1009	408
B0511.8.1	1688	1147
B0511.8.2	1699	1158
B0511.9A	886	459
B0511.9B	958	215
B0511.9C	826	459
B0511.9D	862	435
B0513.1A	3572	197
B0513.1B	2258	379
B0513.2A.1	665	444
B0513.2A.2	768	444
B0513.2B.1	766	442
B0513.2B.2	251	61
B0513.3A	316	59

B0513.3B	217	4
B0513.4A	441	169
B0513.5	2095	1189
B0513.9A	531	130
B0513.9B	358	27
B0523.1	1382	1085
B0523.3	1714	61
B0523.5	4347	1321
B0524.2	1091	649
B0524.3	1692	41
B0524.4	2319	857
B0524.5	569	237
B0524.6	830	259
B0545.1A	2361	3
B0545.1B.1	2422	157
B0545.1B.2	2646	381
B0545.3	1073	848
B0546.1.1	473	214
B0546.1.2	745	486
B0546.2A	1574	182
B0546.2B.1	1575	183
B0546.2B.2	1548	155
B0546.2B.3	1534	142
B0546.3A	1284	241
B0546.3B	975	488
B0546.3C	546	59
B0546.4A	747	225
B0546.4B	1096	225
B0546.4C.2	682	364
B0546.4C.3	399	107
B0547.1	1205	277
B0554.2	1644	930
B0554.4	1812	98
B0554.5	1550	558
B0554.6	1179	632
B0554.7	1476	532
B0563.10	458	90
B0563.15	180	21
B0563.1	564	94
B0563.18	683	400
B0563.2	1074	770
B0563.4	1083	18
B0563.5	480	82
B0563.6A	2824	855

B0563.6B	1533	699
B0563.6C	1399	855
B0563.7	748	95
B0563.8	258	78
B0563.9	231	47
B0564.10A	1210	149
B0564.10B	1033	31
B0564.10C	619	354
B0564.10D	607	342
B0564.11.1	1272	389
B0564.11.2	1286	403
B0564.1A	1217	156
B0564.1B.1	647	129
B0564.1B.2	657	139
B0564.1C	674	156
B0564.2	762	203
B0564.4	1266	147
B0564.7.1	1939	1478
B0564.7.2	1933	1478
BE0003N10.1	2443	70
BE0003N10.2	1670	859
BE0003N10.3	3795	3385
BE10.1	1002	650
BE10.2	1670	310
BE10.3	1753	554
BE10.4	1075	651
BE10.5.1	325	175
BE10.5.2	385	41
BE10.7	150	60
C01A2.1B	353	9
C01A2.2A	713	61
C01A2.2B	252	57
C01A2.3	1596	237
C01A2.6	823	442
C01A2.7A	666	149
C01A2.7B	725	151
C01A2.9	273	35
C01B10.10	1825	219
C01B10.11	1126	169
C01B10.3	1301	923
C01B10.44	716	235
C01B10.49	200	73
C01B10.4A	1774	1423
C01B10.4B	1680	1329

C01B10.4C	1747	1421
C01B10.5A.1	753	413
C01B10.5A.2	753	413
C01B10.5B.1	498	135
C01B10.5B.2	498	135
C01B10.5C.1	483	135
C01B10.5C.2	483	135
C01B10.6A	1737	1394
C01B10.6B	1728	1385
C01B10.6C.1	1756	1413
C01B10.6C.2	1736	1393
C01B10.6C.3	1652	1309
C01B10.6C.4	1733	1390
C01B10.6D.1	689	491
C01B10.6D.2	659	456
C01B10.6D.3	795	597
C01B10.6D.4	511	313
C01B10.6D.5	764	566
C01B10.6D.6	743	535
C01B10.7A	410	61
C01B10.8.1	2113	293
C01B10.8.2	2163	343
C01B10.9	2008	1544
C01B12.10	149	37
C01B12.1	1026	762
C01B12.2	1453	144
C01B12.3	1983	1086
C01B12.4	1155	560
C01B12.5	1694	1067
C01B12.8	526	259
C01B4.10	954	470
C01B4.7	1428	1209
C01B4.8	1437	1119
C01B4.9	1635	840
C01B7.11	147	28
C01B7.14	298	39
C01B7.1A.1	3293	3
C01B7.1A.2	3265	12
C01B7.1B.1	1727	3
C01B7.1B.2	1699	12
C01B7.1C.1	3308	3
C01B7.1C.2	3280	1594
C01B7.1D.1	3242	3
C01B7.1D.2	3214	12

C01B7.3	399	147
C01B7.4	2356	1158
C01B7.5	462	140
C01B7.6	11557	10174
C01B7.8	223	69
C01B7.9	190	32
C01B9.1A	4782	2609
C01B9.1B	5052	2879
C01B9.4	268	10
C01C10.1	958	32
C01C10.2A	643	51
C01C10.2B	1016	720
C01C10.3	1505	218
C01C10.4	1139	48
C01C10.5	151	37
C01C4.1	702	42
C01C4.2	978	325
C01C4.3A	1476	332
C01C4.3B	1406	197
C01C7.1A	3509	1579
C01C7.1B	3575	1579
C01F1.2	1324	767
C01F1.3A	1954	197
C01F1.3B	835	18
C01F1.4	1144	553
C01F1.5	927	517
C01F1.6	1722	641
C01F4.2A	3241	1915
C01F4.2B	3600	856
C01F6.1	1922	1446
C01F6.13	257	156
C01F6.14	225	31
C01F6.2	1597	270
C01F6.4A	1668	1100
C01F6.4B	1175	872
C01F6.4C	950	381
C01F6.5	772	178
C01F6.6A	1844	276
C01F6.6B	2361	838
C01F6.6C	1710	362
C01F6.6D	1779	362
C01F6.6E.1	1575	939
C01F6.6E.2	1843	275
C01F6.6E.3	1780	214

C01F6.6F	1503	867
C01F6.6G	1539	15
C01F6.8A	784	490
C01F6.8B	846	552
C01F6.9	377	26
C01G10.10A	1352	224
C01G10.10B	1261	165
C01G10.11A.1	1575	44
C01G10.11A.2	1684	153
C01G10.11B.1	1118	44
C01G10.11B.2	2586	157
C01G10.11C.1	1695	164
C01G10.11C.2	1568	40
C01G10.11D	1175	124
C01G10.11E	999	417
C01G10.11F.1	1605	44
C01G10.11F.2	1714	153
C01G10.12	615	364
C01G10.1	3833	3163
C01G10.15	303	15
C01G10.16	436	255
C01G10.3	1083	457
C01G10.6	395	41
C01G10.7	1216	279
C01G10.8.1	1178	37
C01G10.8.2	1141	37
C01G10.9	1174	400
C01G12.1	1740	948
C01G12.13	839	235
C01G12.3	694	490
C01G12.5	840	611
C01G12.7	1966	389
C01G12.8	3177	2403
C01G12.9	831	490
C01G5.2A	2595	1174
C01G5.2B	2387	1206
C01G5.2C	2524	1343
C01G5.3	1221	304
C01G5.4A	3395	276
C01G5.4B	3311	183
C01G5.5	984	756
C01G5.6	1393	9
C01G5.7A	408	28
C01G5.7B	471	28

C01G5.8A	2743	1028
C01G5.8B	1408	1019
C01G5.9	1366	828
C01G6.1A.1	1189	657
C01G6.1A.2	1195	657
C01G6.1A.3	1204	672
C01G6.1B.1	1207	776
C01G6.1B.2	1076	657
C01G6.1B.3	1222	791
C01G6.3	1283	652
C01G6.4	995	26
C01G6.5	3648	612
C01G6.6A.1	2174	1709
C01G6.6A.2	2217	1752
C01G6.6B.1	593	95
C01G6.6B.2	448	138
C01G6.7	1687	1405
C01G6.8A	3259	31
C01G6.8B	3181	375
C01G6.8C	2783	1727
C01G6.9	1171	959
C01G8.1A	1228	372
C01G8.1B	1225	372
C01G8.2	1392	7
C01G8.3	1220	548
C01G8.4	1022	191
C01G8.5A	2329	1486
C01G8.5B	2295	1452
C01G8.6	1277	932
C01G8.9A	5314	612
C01G8.9B	3132	1736
C01G8.9C	6233	154
C01H6.1	967	304
C01H6.2	2183	1904
C01H6.3	1005	372
C01H6.4	1527	582
C01H6.5A	2352	687
C01H6.5B	2214	441
C01H6.5C	2365	278
C01H6.5D	1556	56
C01H6.5E	1543	49
C01H6.5F	1941	441
C01H6.6.1	1481	931
C01H6.6.2	1495	945

C01H6.7A.1	2234	82
C01H6.7A.2	2225	86
C01H6.7B.1	2177	82
C01H6.7B.2	2168	1792
C01H6.8A	819	103
C01H6.8B	598	262
C01H6.9	3009	1038
C02A12.10	932	91
C02A12.1	734	21
C02A12.4	915	439
C02A12.5	1073	771
C02A12.6	909	500
C02A12.9	897	696
C02B10.1.1	1981	111
C02B10.1.2	1995	125
C02B10.2	733	173
C02B10.3	1437	311
C02B10.4	883	305
C02B10.5A.1	2617	175
C02B10.5A.2	2590	148
C02B10.5B	2221	219
C02B10.6	1197	384
C02B4.11	133	47
C02B4.13	141	31
C02B4.1	4802	2204
C02B4.2	1640	333
C02B4.3	561	266
C02B4.4	412	149
C02B4.6	291	71
C02B8.1.1	535	199
C02B8.12	1089	916
C02B8.1.2	652	199
C02B8.4	539	341
C02B8.5	1137	201
C02B8.6	1789	117
C02B8.7	159	59
C02C2.1	2056	1299
C02C2.3	1396	847
C02C2.4	1827	1470
C02C2.5	1089	442
C02C6.1A	2671	136
C02C6.1B	3266	141
C02C6.2A	2171	1310
C02C6.2B	2017	1156

C02C6.3A	1259	861
C02C6.3B	827	429
C02C6.3C.1	515	135
C02C6.3C.2	620	240
C02C6.3D	709	272
C02C6.6	203	29
C02C6.8	276	24
C02D4.12	150	49
C02D4.14	145	4
C02D4.1	932	102
C02D4.2A	1565	599
C02D4.2B	1556	590
C02D4.2C	600	131
C02D4.2D	591	122
C02D4.2E	1634	599
C02D4.2F	1650	684
C02D4.2G	1263	599
C02D4.9	143	59
C02D5.1	1227	289
C02D5.2A	1185	719
C02D5.2B	1162	696
C02D5.3	929	14
C02D5.4	871	33
C02D5.5	140	45
C02E11.1A	3630	1607
C02E11.1B	3633	1610
C02E7.10	1023	172
C02E7.13	1050	161
C02E7.1	3185	1360
C02E7.2	1220	728
C02E7.3	1002	216
C02E7.4A	867	282
C02E7.4B	990	223
C02E7.5	1086	913
C02E7.6	319	44
C02E7.7	301	89
C02E7.9	1038	884
C02F12.10	790	461
C02F12.1A	965	564
C02F12.1B	1166	432
C02F12.3.1	692	108
C02F12.3.2	598	73
C02F12.3.3	329	60
C02F12.4	2211	1412

C02F12.5	652	246
C02F12.7	3696	801
C02F12.8	2232	1597
C02F12.9	801	331
C02F4.11	279	134
C02F4.12	305	117
C02F4.1	5683	2040
C02F4.2A	2525	1461
C02F4.2B	1604	1233
C02F4.2C	2546	1461
C02F4.4	897	513
C02F4.5	216	99
C02F5.10	495	180
C02F5.11	792	390
C02F5.12	1343	469
C02F5.1	3376	193
C02F5.13	799	353
C02F5.15	183	67
C02F5.2	418	92
C02F5.3	1223	861
C02F5.4	1120	804
C02F5.5	637	120
C02F5.6A	1272	994
C02F5.6B	1428	994
C02F5.7A.1	2044	168
C02F5.7A.2	2109	233
C02F5.7A.3	2174	168
C02F5.7B.1	1905	168
C02F5.7B.2	1970	233
C02F5.8	905	158
C02F5.9	881	192
C02G6.1	3036	723
C02G6.2	2451	587
C02G6.3	450	44
C02G6.5	150	58
C02H6.1	1005	115
C02H6.2	1125	116
C02H7.1	1691	1327
C02H7.2	1435	777
C02H7.3A	4574	1239
C02H7.3B	4428	1239
C03A3.1A	1387	501
C03A3.1B	1168	282
C03A3.2	1965	1182

C03A3.3	864	649
C03A3.4	224	70
C03A3.6	173	72
C03A3.7	200	68
C03A7.10	944	587
C03A7.11	1657	1049
C03A7.12	919	510
C03A7.13	954	268
C03A7.14	1525	47
C03A7.2	984	389
C03A7.3	1140	77
C03A7.5	885	137
C03A7.6	873	384
C03A7.9	1061	679
C03B1.10	158	32
C03B1.12	1044	242
C03B1.13	1588	24
C03B1.14	844	442
C03B1.1	783	173
C03B1.2	843	549
C03B1.3	350	152
C03B1.4	762	481
C03B1.5	1407	87
C03B1.6A	464	217
C03B1.6B	798	217
C03B1.7A	2687	1453
C03B1.7B	2316	1082
C03B1.9	618	26
C03B8.3	793	512
C03B8.4	7238	4558
C03C10.10	148	39
C03C10.11	141	6
C03C10.1.1	1864	929
C03C10.1.2	1863	928
C03C10.2	1091	779
C03C10.3	1388	761
C03C10.4	967	560
C03C11.1	669	500
C03C11.2	979	233
C03C11.6	221	28
C03C11.7	146	30
C03D6.1	872	122
C03D6.3A	2156	674
C03D6.3B	1814	674

C03D6.4	4570	1334
C03D6.5	984	551
C03D6.6	650	276
C03E10.3	1119	316
C03E10.4	1881	1215
C03E10.5	3196	2303
C03E10.6	829	70
C03E10.9	147	29
C03F11.1	2079	944
C03F11.2	1089	316
C03F11.3	1792	982
C03F11.4.1	1588	284
C03F11.4.2	1586	282
C03F11.5	212	37
C03F11.7	127	51
C03G5.1	2290	703
C03G5.14	432	231
C03G5.7.1	587	69
C03G5.7.2	560	42
C03G6.10	1153	490
C03G6.11	1017	669
C03G6.12	1359	897
C03G6.13	901	333
C03G6.14	1408	296
C03G6.15	1613	160
C03G6.16	912	366
C03G6.17	1044	169
C03G6.18	1097	365
C03G6.19	1440	237
C03G6.2	907	157
C03G6.3A	1111	276
C03G6.3B	1966	1178
C03G6.5	856	126
C03G6.6	937	386
C03G6.8	1483	1046
C03H12.1A	2385	98
C03H12.1B	2301	16
C03H12.1C	930	181
C03H12.1D	2298	98
C03H12.1E	2214	16
C03H12.1F	843	181
C03H12.2	148	53
C03H5.1.1	1366	434
C03H5.1.2	1385	434

C03H5.2	1228	46
C03H5.4	311	85
C03H5.5	1677	574
C03H5.6	1408	893
C03H5.7	1176	159
C03H5.9	975	679
C04A11.1	1139	266
C04A11.2	1591	89
C04A11.3	3755	1212
C04A11.4	3227	1337
C04A11.5	452	239
C04A11.6	205	78
C04A2.10	217	78
C04A2.1.1	1385	834
C04A2.11	215	71
C04A2.1.2	1239	688
C04A2.12	186	6
C04A2.13	223	46
C04A2.15	437	210
C04A2.3A	3986	653
C04A2.3B	3554	230
C04A2.3C.1	2448	1599
C04A2.3C.2	2645	141
C04A2.3D	3263	753
C04A2.7A.1	3179	1401
C04A2.7A.2	3189	1411
C04A2.7B.1	2961	1401
C04A2.7B.2	2971	1411
C04A2.7C.1	3170	1398
C04A2.7C.2	3180	1408
C04A2.7D.1	2623	1401
C04A2.7D.2	2633	1411
C04B4.1.1	1550	682
C04B4.1.2	1620	752
C04B4.2	1805	606
C04B4.3	1008	327
C04B4.4	1470	569
C04B4.5	696	249
C04B4.6	468	313
C04C11.18	140	24
C04C11.19	204	48
C04C11.1A	1228	627
C04C11.1B	870	267
C04C11.2.1	2215	1213

C04C11.21	274	18
C04C11.22	191	27
C04C11.2.2	2222	1220
C04C11.7	225	122
C04C11.9	176	69
C04C3.1	1043	226
C04C3.12	203	79
C04C3.14	221	36
C04C3.2	1527	537
C04C3.3	1297	504
C04C3.5A	1066	499
C04C3.5B	1285	718
C04C3.5C	1252	685
C04C3.6	1035	415
C04D8.1A	5337	4404
C04D8.1B	5383	4451
C04D8.1C	5633	4701
C04D8.1D	3893	2961
C04D8.1E	3005	2073
C04D8.1F	5341	4401
C04D8.1G	4208	3276
C04D8.2	140	13
C04D8.3	150	17
C04E12.10	2600	2243
C04E12.11	592	378
C04E12.4	1889	122
C04E12.5	1490	820
C04E12.6	546	308
C04E12.7	756	287
C04E12.8	1053	460
C04E12.9	1077	715
C04E6.10	1113	269
C04E6.11	3158	2852
C04E6.13	334	41
C04E6.2	933	287
C04E6.4	1441	141
C04E6.5	1637	988
C04E6.6	1926	1086
C04E6.7	1090	309
C04E6.8	453	222
C04E6.9	1023	736
C04E7.1	826	211
C04E7.2	1809	331
C04E7.4	2242	453

C04E7.5	511	110
C04F1.1	973	414
C04F12.10.1	1470	937
C04F12.10.2	1517	984
C04F12.12	488	44
C04F12.1	3081	1889
C04F12.16	238	4
C04F12.17	247	128
C04F12.3	1922	1389
C04F12.4.1	494	73
C04F12.4.2	506	85
C04F12.5	413	92
C04F12.8	819	543
C04F12.9	516	81
C04F1.3	1359	40
C04F2.1	1065	307
C04F5.1	2653	369
C04F5.2	540	40
C04F5.3	1039	356
C04F5.4	1044	744
C04F5.5	1029	748
C04F5.6	1127	53
C04F5.7	1724	299
C04F5.8	1122	615
C04F5.9	1700	66
C04F6.3	2046	156
C04F6.4A.1	1992	1021
C04F6.4A.2	2060	1089
C04F6.4B.1	2010	1021
C04F6.4B.2	2078	1089
C04F6.5	1056	613
C04F6.7	1506	1369
C04G2.10A	1141	175
C04G2.10B	981	15
C04G2.11	1455	1381
C04G2.2	1166	203
C04G2.5	730	538
C04G2.6	3071	791
C04G2.7	870	322
C04G2.8.1	713	244
C04G2.8.2	713	244
C04G2.9	1245	763
C04G6.10	574	232
C04G6.13	800	359

C04G6.14	146	22
C04G6.1A	1944	466
C04G6.1B	1370	466
C04G6.1C.1	1965	487
C04G6.1C.2	1938	460
C04G6.2	622	5
C04G6.3	4659	195
C04G6.4	1478	408
C04G6.5	278	38
C04H4.1	261	44
C04H4.2	140	48
C04H5.1	531	119
C04H5.2.1	856	253
C04H5.2.2	854	253
C04H5.3	3213	644
C04H5.6A	3196	1284
C04H5.6B	408	92
C04H5.7A	903	647
C04H5.7B	862	606
C04H5.8A	354	61
C05A2.1	1490	193
C05A2.4	132	7
C05A9.10	217	18
C05A9.1A	3883	959
C05A9.1B	3544	620
C05A9.2	792	88
C05A9.7	149	59
C05A9.9	282	150
C05B10.1A	1250	1
C05B10.1B	1895	946
C05B10.1C	1200	1000
C05B5.11.1	406	1
C05B5.11.2	453	39
C05B5.13	201	13
C05B5.1	477	57
C05B5.17	564	325
C05B5.2	650	15
C05B5.3	1258	87
C05B5.4	1076	464
C05B5.5	1117	55
C05B5.6	1227	33
C05B5.7A	606	422
C05B5.7B	744	506
C05B5.8	616	187

C05C10.1	1236	18
C05C10.2A	4979	153
C05C10.2B.1	4985	153
C05C10.2B.2	4856	153
C05C10.3	1714	133
C05C10.4.1	1323	708
C05C10.4.2	1327	708
C05C10.4.3	1339	708
C05C10.5A	1035	516
C05C10.5B	970	451
C05C10.5C.1	816	297
C05C10.5C.2	959	440
C05C10.5C.3	956	437
C05C10.6A	2833	4
C05C10.6B	2839	4
C05C10.6C	886	127
C05C10.7	710	240
C05C10.8	418	170
C05C12.1	1247	28
C05C12.3	5187	2984
C05C12.4	975	443
C05C12.5	551	393
C05C12.6	839	419
C05C8.10	202	66
C05C8.2	1253	854
C05C8.3	871	330
C05C8.4	3486	674
C05C8.5	1862	336
C05C8.6	1845	871
C05C8.7.1	1956	88
C05C8.7.2	2193	325
C05C8.7.3	2063	195
C05C8.7.4	2203	335
C05C8.8	1320	172
C05C8.9A.1	1093	536
C05C8.9A.2	1028	471
C05C9.1	1437	428
C05C9.2	776	124
C05C9.3	4402	2224
C05C9.5	148	52
C05C9.6	144	49
C05C9.9	148	29
C05D10.1A	1910	39
C05D10.1B	1585	274

C05D10.1C.1	1693	392
C05D10.1C.2	1798	22
C05D10.2A	1731	500
C05D10.2B.1	505	272
C05D10.2B.2	510	1
C05D10.2C	1727	500
C05D10.3	1882	546
C05D10.4A	2040	922
C05D10.4B	2015	897
C05D10.4C	1592	474
C05D11.10	599	106
C05D11.11A.1	1578	1212
C05D11.11A.2	1684	59
C05D11.11A.3	1663	38
C05D11.11B.1	1648	23
C05D11.11B.2	1684	59
C05D11.11B.3	1663	38
C05D11.1	3108	2713
C05D11.2	2717	451
C05D11.3	802	4
C05D11.4	1712	40
C05D11.5	924	547
C05D11.6A	1503	469
C05D11.6B	1374	469
C05D11.6C	1335	469
C05D11.7A.1	2577	1237
C05D11.7A.2	2735	1395
C05D11.7B.1	2634	1291
C05D11.7B.2	2792	1449
C05D11.8	2622	1498
C05D11.9	2404	1183
C05D12.1.1	2144	842
C05D12.1.2	2187	885
C05D12.2	3180	2957
C05D12.3A.1	3204	107
C05D12.3A.2	3643	546
C05D12.3B	3262	2225
C05D12.3C.1	3064	107
C05D12.3C.2	3503	546
C05D12.4	899	451
C05D12.5	738	263
C05D12.7	390	122
C05D2.10A	1623	632
C05D2.10B	1629	638

C05D2.11	1263	857
C05D2.14	161	10
C05D2.15	148	34
C05D2.1A	2710	188
C05D2.1C.1	2435	364
C05D2.1C.2	2839	316
C05D2.1D	1568	188
C05D2.3	1588	833
C05D2.4A	1636	508
C05D2.4B	1663	553
C05D2.5	2314	816
C05D2.6A	1998	597
C05D2.6B	1995	597
C05D2.8	1349	866
C05D9.1.1	1742	1331
C05D9.1.2	1707	1331
C05D9.2.1	1003	773
C05D9.2.2	979	749
C05D9.2.3	1493	1263
C05D9.3	1619	1025
C05D9.5	846	24
C05D9.7	910	148
C05D9.9A	482	234
C05D9.9B	697	285
C05E11.1	1286	544
C05E11.12	432	171
C05E11.14	357	177
C05E11.15	221	55
C05E11.16	338	112
C05E11.17	139	39
C05E11.2	444	191
C05E11.3A	1200	383
C05E11.3B	1239	422
C05E11.4	1728	436
C05E11.5	1883	650
C05E11.6	459	161
C05E11.7	1721	673
C05E11.8A	583	245
C05E11.8B	354	16
C05E4.10	1035	116
C05E4.11	1164	274
C05E4.1.1	1170	33
C05E4.1.2	1203	66
C05E4.13	1062	602

C05E4.1.3	1164	33
C05E4.14A	778	89
C05E4.14B	852	321
C05E4.14C	1243	89
C05E4.15	673	445
C05E4.2	1119	493
C05E4.3	1190	938
C05E4.4	1130	811
C05E4.6	987	212
C05E4.7	439	85
C05E4.9A	3303	1446
C05E4.9B	3202	1446
C05E7.1	1005	388
C05E7.2	914	222
C05E7.3	471	265
C05E7.4	1062	14
C05G5.1	1711	563
C05G5.2	2120	1544
C05G5.3	831	378
C05G5.4	1618	498
C05G5.5A	1263	62
C05G5.5B	894	218
C05G5.5C	770	94
C05G5.6.1	1732	542
C05G5.6	172	29
C05G5.6.2	891	310
C05G5.6.3	707	126
C05G5.8	138	47
C05G5.9	149	41
C05G6.1	1577	49
C05H8.1A	1778	211
C05H8.1B	1915	253
C06A1.12	190	45
C06A1.1	2762	2076
C06A12.3A	881	86
C06A12.3B.1	692	408
C06A12.3B.2	871	587
C06A12.3C	871	587
C06A12.4A	2348	275
C06A12.4B	2297	275
C06A12.5	1928	693
C06A12.8	553	312
C06A1.2A	512	113
C06A1.2B	292	113

C06A1.5	598	274
C06A5.11	925	392
C06A5.12	445	133
C06A5.1	5655	110
C06A5.2	708	458
C06A5.3A	2590	2151
C06A5.3B	2599	2160
C06A5.6	2364	1810
C06A5.7A	2135	365
C06A5.7B	1927	763
C06A5.8A	1088	763
C06A5.8B.1	960	635
C06A5.8B.2	964	639
C06A5.9	1293	563
C06A6.13	142	52
C06A6.14	213	34
C06A6.2A	2202	523
C06A6.2B	2211	523
C06A6.2C	1185	394
C06A6.2D	1176	394
C06A6.2E	1147	356
C06A6.2F	1061	279
C06A6.3	1041	287
C06A6.4A.1	1339	1020
C06A6.4A.2	1349	1030
C06A6.4B.1	1381	1062
C06A6.4B.2	1391	1072
C06A6.4C	1657	1480
C06A6.5	1394	483
C06A6.7	1050	943
C06A6.9	148	27
C06A8.1A	2327	161
C06A8.1B	2486	320
C06A8.2	1521	1242
C06A8.3	660	334
C06A8.4	782	56
C06A8.5	1583	1212
C06A8.6	1145	97
C06A8.7	999	228
C06A8.8A	1515	328
C06A8.8B.1	519	123
C06A8.8B.2	613	63
C06A8.9A	3067	835
C06A8.9B	2757	835

C06B3.11	927	172
C06B3.12	924	310
C06B3.13	1339	1093
C06B3.14	933	475
C06B3.16	498	101
C06B3.1	765	453
C06B3.2	2076	1726
C06B3.3	1541	544
C06B3.4	1013	592
C06B3.5	1145	596
C06B3.6.1	742	383
C06B3.6.2	1288	929
C06B3.7	984	71
C06B3.8	2181	6
C06B3.9	1074	599
C06B8.10	1035	292
C06B8.1	1111	220
C06B8.11	519	85
C06B8.2A.1	1138	777
C06B8.2A.2	1222	861
C06B8.2B.1	1210	777
C06B8.2B.2	1294	861
C06B8.2C.1	1493	777
C06B8.2C.2	1577	861
C06B8.2D.1	1486	777
C06B8.2D.2	1570	861
C06B8.3	489	83
C06B8.6	1098	486
C06B8.7	9546	1276
C06B8.8.1	287	102
C06B8.8.2	285	102
C06B8.8.3	286	102
C06B8.8.4	323	102
C06B8.8.5	284	102
C06B8.8.6	299	115
C06B8.9	1056	820
C06C3.10	525	142
C06C3.14	195	53
C06C3.1A	3487	2767
C06C3.1B	3491	2776
C06C3.1C	3806	3091
C06C3.1D	3338	2623
C06C3.3	1731	493
C06C3.6.1	1172	372

C06C3.6.2	1287	487
C06C3.7	678	169
C06C3.8A	1744	590
C06C3.8B	994	746
C06C6.1	1113	327
C06C6.12	229	18
C06C6.2	1041	377
C06C6.3	1047	280
C06C6.4	1140	275
C06C6.5A	1330	478
C06C6.5B.1	614	214
C06C6.5B.2	548	146
C06C6.6	2505	195
C06C6.7	2808	2567
C06C6.8	428	240
C06E1.10	3647	1851
C06E1.11	1230	384
C06E1.1	576	174
C06E1.3	1848	426
C06E1.4	2959	741
C06E1.6	150	61
C06E1.7	1249	856
C06E1.8	1489	93
C06E1.9	2034	387
C06E2.1	1074	29
C06E2.3	651	266
C06E2.5.1	573	191
C06E2.5.2	644	191
C06E2.7	882	240
C06E2.8	357	224
C06E2.9	285	178
C06E4.21	225	67
C06E4.2A	249	62
C06E4.2B	357	170
C06E4.3	875	642
C06E4.5	629	356
C06E4.6	858	4
C06E4.7	693	56
C06E4.8	845	554
C06E7.1A	1498	109
C06E7.1D	1316	78
C06E7.2A.1	1650	821
C06E7.2A.2	1729	900
C06E7.2B	749	69

C06E7.3A	1595	57
C06E7.3B	1588	25
C06E7.4A	1593	546
C06E7.4B	1098	51
C06E7.6	439	122
C06E7.7	1040	791
C06E7.88	724	270
C06E7.93	285	174
C06E8.3A	2016	111
C06E8.3B	643	547
C06E8.3C	1692	111
C06E8.3D	2091	185
C06E8.5	1922	811
C06E8.7	212	51
C06G1.10	150	58
C06G1.12	149	7
C06G1.1A	1986	705
C06G1.1B	1992	705
C06G1.2	870	374
C06G1.4	3326	1150
C06G1.5A	2364	715
C06G1.5B	2320	671
C06G1.6	2379	874
C06G3.10	2202	1649
C06G3.11A	275	98
C06G3.11B	343	96
C06G3.1A.1	1367	310
C06G3.1A.2	1421	364
C06G3.1B.1	1319	310
C06G3.1B.2	1373	364
C06G3.2	3197	2191
C06G3.5A	1353	415
C06G3.5B	1238	300
C06G3.6	1872	1502
C06G3.7A	2603	64
C06G3.7B	2477	962
C06G3.8A	769	8
C06G3.8B	612	45
C06G3.9.1	2351	42
C06G3.9.2	2474	165
C06G4.1	2760	1391
C06G4.2A	2743	1512
C06G4.2B.1	2614	1374
C06G4.2B.2	2523	1374

C06G4.2C	342	70
C06G4.2D	2585	1354
C06G4.4.1	483	292
C06G4.4.2	568	377
C06G4.5	1423	78
C06G4.6	621	236
C06G8.1	1512	779
C06G8.2	2586	1227
C06G8.3A	1790	1363
C06G8.3B	1354	673
C06G8.3C	1298	617
C06G8.4	957	654
C06H2.10	202	58
C06H2.1	931	515
C06H2.2	1511	110
C06H2.3	1789	162
C06H2.4	1362	1170
C06H2.5A	633	11
C06H2.5B	849	31
C06H2.6A	645	28
C06H2.7A	1235	299
C06H2.7B	1299	363
C06H5.1.1	1230	11
C06H5.1.2	1248	29
C06H5.12	201	70
C06H5.14	201	44
C06H5.2	1185	910
C06H5.6A	1779	1356
C06H5.6B	1506	1083
C06H5.7	1358	296
C06H5.8A	1083	259
C07A12.10	215	44
C07A12.11	202	17
C07A12.14	284	73
C07A12.15	273	58
C07A12.16	139	37
C07A12.17	216	44
C07A12.18A	426	155
C07A12.18B	398	140
C07A12.1A	1750	764
C07A12.1B	1226	771
C07A12.1C	1040	585
C07A12.2	204	23
C07A12.3A	1905	1500

C07A12.3B	1744	1339
C07A12.4A.1	1866	500
C07A12.4A.2	1762	500
C07A12.4B.1	1698	527
C07A12.4B.2	1594	527
C07A12.4C.1	1500	491
C07A12.4C.2	1396	491
C07A12.5A	2505	29
C07A12.5B	2322	29
C07A12.7A.1	1471	648
C07A12.7A.2	1491	668
C07A12.7B.1	1364	540
C07A12.7B.2	1384	560
C07A12.7C	779	172
C07A12.9	187	48
C07A4.1	1697	226
C07A4.2	1405	41
C07A4.3	815	6
C07A4.4	143	30
C07A4.9	279	63
C07A9.10	765	167
C07A9.11	2201	1021
C07A9.12	964	524
C07A9.13	891	284
C07A9.16	225	27
C07A9.1	991	109
C07A9.2.1	982	469
C07A9.2.2	589	76
C07A9.3A	3522	1308
C07A9.3B	3408	1308
C07A9.3C	3592	1050
C07A9.3D	3056	956
C07A9.4	1836	140
C07A9.5	1077	191
C07A9.6	1700	578
C07A9.7A	1600	600
C07A9.7B	1638	600
C07A9.8	1478	514
C07A9.9	944	361
C07B5.3	509	185
C07B5.4A	1807	29
C07B5.4B.1	1637	750
C07B5.4B.2	1638	30
C07B5.5	1350	312

C07B5.6	666	223
C07B5.9	204	34
C07C7.1.1	676	24
C07C7.1.2	427	24
C07D10.1	1125	73
C07D10.2A.1	1719	220
C07D10.2A.2	1909	410
C07D10.2B.1	1740	241
C07D10.2B.2	1930	431
C07D10.3	1107	267
C07D10.4	1330	477
C07D10.5.1	1324	982
C07D10.5.2	1447	1105
C07D8.5	405	25
C07D8.6	1124	615
C07E3.13	137	49
C07E3.1A	2657	2057
C07E3.1B	382	87
C07E3.2	2303	1370
C07E3.3A	1290	959
C07E3.3B	3702	3371
C07E3.4	1690	147
C07E3.5	1236	54
C07E3.6	1169	529
C07E3.8	1070	203
C07E3.9	598	55
C07F11.1	4082	2856
C07F11.2	1576	755
C07G1.1	3048	2169
C07G1.3A	2241	328
C07G1.3B	2425	265
C07G1.3C.1	2463	1809
C07G1.3C.2	2524	1870
C07G1.4A	2292	538
C07G1.4B	2829	1566
C07G1.5.1	2543	36
C07G1.5.2	2590	83
C07G1.6	756	345
C07G1.7	666	172
C07G1.8	491	33
C07G2.1A	1893	949
C07G2.1B	617	189
C07G2.2A	2155	1343
C07G2.2B	2164	1352

C07G2.2C.1	2281	1469
C07G2.2C.2	2307	1495
C07G2.2D.1	2083	1604
C07G2.2D.2	2015	1536
C07G2.3A.1	1928	97
C07G2.3A.2	1829	97
C07G2.3B.1	1564	1163
C07G2.3B.2	1465	1163
C07G2.3B.3	1544	1143
C07G2.3B.4	1476	1075
C07G2.3B.5	1464	1063
C07G3.10	711	163
C07G3.2	646	379
C07G3.4	1029	563
C07G3.5	1127	477
C07G3.6	1044	342
C07G3.8A.1	1411	543
C07G3.8A.2	1410	542
C07G3.8B	1611	707
C07G3.9.1	1595	1097
C07G3.9.2	1702	1204
C07H4.1	706	313
C07H4.2	2934	608
C07H4.3	336	47
C07H6.12	189	64
C07H6.1	2357	1272
C07H6.16	153	71
C07H6.2	461	241
C07H6.3	4271	4028
C07H6.4	2926	1736
C07H6.5	2205	602
C07H6.6	2808	443
C07H6.7.1	1253	311
C07H6.7.2	1312	373
C07H6.8.1	1655	1387
C07H6.8.2	1706	1387
C07H6.8.3	1587	1319
C07H6.9	715	182
C08A9.10	569	140
C08A9.12	148	15
C08A9.1	833	363
C08A9.3A	2155	396
C08A9.3B	2220	461
C08A9.6	1243	505

C08A9.7	1271	667
C08A9.8	1203	906
C08A9.9.1	849	640
C08A9.9.2	1323	1114
C08B11.11	386	251
C08B11.1	2790	55
C08B11.2	1678	866
C08B11.3	4372	3237
C08B11.4	2573	1775
C08B11.6	1298	796
C08B11.7	1121	798
C08B11.8	1536	947
C08B11.9	686	27
C08B6.10	956	517
C08B6.11	1584	1120
C08B6.12	903	652
C08B6.13	912	693
C08B6.1A	1697	559
C08B6.1B	1709	559
C08B6.2A	697	569
C08B6.2B	657	417
C08B6.2C	690	417
C08B6.2D	722	486
C08B6.3A.1	1528	566
C08B6.3A.2	1600	638
C08B6.3B	1489	527
C08B6.4A	2041	73
C08B6.4B	1695	214
C08B6.5	1446	900
C08B6.6	722	534
C08B6.7A	2658	151
C08B6.7B	2712	2237
C08B6.8A	790	101
C08B6.8B.1	776	119
C08B6.8B.2	697	42
C08B6.9	1240	490
C08C3.1A	1519	143
C08C3.1B	872	160
C08C3.1C	669	71
C08C3.2	1140	451
C08C3.3	1031	119
C08C3.4A	1089	671
C08C3.4B	1053	637
C08C3.6	149	13

C08D8.1	1354	969
C08D8.2A	1095	7
C08D8.2B	2521	7
C08D8.7	267	152
C08E3.10A	1279	926
C08E3.10B	1274	921
C08E3.1	237	63
C08E3.12	723	462
C08E3.13	311	104
C08E3.14	768	273
C08E3.15	204	98
C08E3.2	708	242
C08E3.3	835	64
C08E3.4	947	713
C08E3.6	1219	900
C08E3.7	1105	54
C08E3.8	1296	384
C08E3.9	1179	270
C08E8.11	514	318
C08E8.3	348	156
C08E8.4	941	639
C08E8.6	285	154
C08F11.10	818	434
C08F11.11.1	448	189
C08F11.11.2	437	186
C08F11.13A.1	1364	570
C08F11.13A.2	1378	584
C08F11.13B	507	124
C08F11.13C.1	964	570
C08F11.13C.2	978	584
C08F11.1	695	354
C08F11.17	455	121
C08F1.11	929	338
C08F11.2	591	304
C08F11.3	1059	739
C08F11.4	972	711
C08F11.5A	1083	104
C08F11.5B	963	13
C08F11.7	882	43
C08F11.8.1	2048	1327
C08F11.8.2	2010	1289
C08F1.3	985	17
C08F1.5A	2631	1364
C08F1.5B	2862	1595

C08F1.6	912	357
C08F1.8	1878	292
C08F8.10	130	7
C08F8.1A	725	483
C08F8.1B	243	111
C08F8.2A	2456	1729
C08F8.2B	2393	1666
C08F8.2C.1	1576	849
C08F8.2C.2	1656	929
C08F8.3A	1477	1138
C08F8.3B	1494	1155
C08F8.4A	1654	889
C08F8.4B	1567	1439
C08F8.4C	1522	1394
C08F8.6	1143	731
C08F8.7	618	427
C08F8.8	1494	1021
C08F8.9	264	31
C08G5.1	3042	2305
C08G5.2	969	221
C08G5.3A	1195	5
C08G5.3B.1	1074	5
C08G5.3B.2	1101	5
C08G5.4A	1296	73
C08G5.4B	972	171
C08G5.6	683	409
C08G5.7A	965	496
C08G5.7B	862	393
C08G5.7C	862	393
C08G9.1	977	356
C08G9.2	6863	6504
C08G9.6	148	10
C08G9.7	209	23
C08H9.10	1561	211
C08H9.1	1652	1157
C08H9.12	1448	127
C08H9.13	1449	301
C08H9.14	1287	378
C08H9.15	606	232
C08H9.2A	4307	3567
C08H9.2B	3422	2682
C08H9.3A	2425	985
C08H9.3B	603	62
C08H9.4A.1	669	125

C08H9.4B.1	1467	80
C08H9.5	1535	1046
C08H9.7	1434	229
C09B7.12	204	55
C09B7.1A	1752	504
C09B7.1B	1710	504
C09B7.1C	2865	504
C09B7.2.1	596	194
C09B7.2.2	659	255
C09B7.8	300	134
C09B8.1	1706	1134
C09B8.13	224	64
C09B8.16	207	49
C09B8.17	155	55
C09B8.3	1164	987
C09B8.4	873	311
C09B8.5	1201	782
C09B8.6A	1348	161
C09B8.6B	1277	90
C09B8.6C	721	112
C09B8.7A	2314	336
C09B8.7B	2304	338
C09B8.7C	2211	245
C09B8.7E	1027	64
C09B8.8	507	34
C09B9.1	1068	64
C09B9.2	1058	923
C09B9.3.1	1422	333
C09B9.3.2	1355	266
C09B9.4	1228	554
C09B9.7	3117	232
C09B9.82	225	8
C09B9.85	1842	14
C09B9.8A	694	459
C09B9.8B	646	411
C09C7.1	1030	60
C09D1.1A	20716	3860
C09D1.1C	4723	942
C09D1.1D	4760	979
C09D1.1E	18796	15616
C09D1.1F	22938	15616
C09D1.1G	21518	3860
C09D1.2	975	30
C09D4.1A	2203	1119

C09D4.1B	2019	935
C09D4.2	877	367
C09D4.3	1494	1210
C09D4.4A	3135	768
C09D4.4B	3141	768
C09D4.4C	3144	777
C09D4.5.1	690	459
C09D4.5.2	697	466
C09D4.5.3	770	539
C09D4.5.4	704	473
C09D4.6	664	137
C09D4.9	364	116
C09D8.14	199	3
C09D8.1A	6993	4167
C09D8.1B	4944	2118
C09D8.1C	4104	1278
C09D8.1D	7134	4308
C09D8.1E	6408	3582
C09D8.1F	7065	4239
C09D8.1G	4194	1368
C09D8.1H	4025	1199
C09D8.1I	7125	4299
C09D8.1J	7197	4371
C09D8.1K	5021	2178
C09D8.1L	7070	4227
C09D8.4	149	63
C09D8.5	149	32
C09E10.2A	2867	531
C09E10.2B	2873	531
C09E10.2C	2399	531
C09E10.2D	2405	531
C09E10.2E	2774	531
C09E7.10	837	476
C09E7.1	981	372
C09E7.2	1316	857
C09E7.3	452	267
C09E7.4	2004	1498
C09E7.5	1466	505
C09E7.6	544	319
C09E7.7.1	3168	105
C09E7.7.2	3223	105
C09E7.8A	3470	54
C09E7.8B	3397	2301
C09E7.9	2691	500

C09E8.1A	2568	2165
C09E8.1B	2338	780
C09E8.2A	974	469
C09E8.2B	782	277
C09E8.3	2333	822
C09E8.5	289	85
C09E9.1A	614	91
C09E9.1B	446	151
C09E9.1C	727	432
C09E9.1D	198	22
C09F12.1.1	625	153
C09F12.1.2	813	341
C09F12.2	2025	660
C09F12.3	1253	393
C09F5.1	1951	169
C09F5.2A	1244	892
C09F5.2B	1058	706
C09F5.3	1080	253
C09F9.1	471	235
C09F9.3A	2409	129
C09F9.3B	2415	129
C09F9.3C	2460	129
C09F9.3D	2526	240
C09F9.3E	2484	240
C09F9.3F	2571	240
C09G1.1	1227	891
C09G12.10	945	639
C09G12.11	939	684
C09G12.15	903	241
C09G12.16	933	668
C09G12.1	731	364
C09G12.17	399	42
C09G12.2	977	198
C09G1.2	3663	3548
C09G12.3	984	702
C09G12.5	347	41
C09G12.6	894	131
C09G12.8B	1585	388
C09G12.9	1287	368
C09G1.3	591	181
C09G1.4	2008	630
C09G1.5.1	394	87
C09G1.5.2	730	337
C09G4.1.1	1492	446

C09G4.1.2	1540	494
C09G4.2A	2248	803
C09G4.2B.1	1431	76
C09G4.2B.2	1649	294
C09G4.2C	2290	845
C09G4.2D.1	1153	370
C09G4.2D.2	1521	76
C09G4.2D.3	1200	82
C09G4.3	692	157
C09G4.4	609	228
C09G4.5	1683	1298
C09G5.1	1663	335
C09G5.13	1058	529
C09G5.2A	1851	737
C09G5.2B	1047	307
C09G5.3	902	97
C09G5.4	1051	86
C09G5.5	1037	92
C09G5.6	2979	168
C09G5.7	1305	402
C09G5.8A	4019	901
C09G5.8B	3787	669
C09G5.8C	254	84
C09G9.1A	1714	791
C09G9.1B	886	728
C09G9.1C	841	140
C09G9.2A	1241	460
C09G9.2B.1	1166	385
C09G9.2B.2	1198	417
C09G9.3A	869	24
C09G9.3B	588	113
C09G9.3C	528	24
C09G9.4	1913	1209
C09G9.6	1789	885
C09G9.7A	759	505
C09G9.7B	341	162
C09G9.8A	288	178
C09G9.8B	245	54
C09G9.8C	414	283
C09H10.10	1196	696
C09H10.12	146	5
C09H10.1	519	129
C09H10.15	196	57
C09H10.16	146	36

C09H10.19	173	52
C09H10.2	369	232
C09H10.3	1600	805
C09H10.4	276	1
C09H10.5A	458	54
C09H10.5C	477	73
C09H10.6	1404	416
C09H10.7	1043	854
C09H10.8	1064	801
C09H10.9	1244	105
C09H5.2A	3292	1150
C09H5.2B	3305	1150
C09H5.5	1086	884
C09H5.6	1008	697
C09H5.7	1002	219
C09H5.9	1067	272
C09H6.1A	4219	296
C09H6.1B	4220	296
C09H6.2A	3342	754
C09H6.2B	3258	441
C09H6.2C	3190	602
C09H6.3	2017	1128
C10A4.1	1881	115
C10A4.12	186	55
C10A4.13	297	160
C10A4.2	816	116
C10A4.3	733	28
C10A4.4	800	506
C10A4.5	1583	867
C10A4.7	718	279
C10A4.9A	539	87
C10A4.9B	727	87
C10B5.1	998	515
C10B5.3	749	323
C10C5.1A	2455	1708
C10C5.1B	2461	1714
C10C5.1C	2341	1594
C10C5.1D	2347	1594
C10C5.1E	147	33
C10C5.2	1500	154
C10C5.3	1360	1177
C10C5.4	1354	110
C10C5.5	1288	168
C10C5.6A	5727	141

C10C5.6B	5745	141
C10C5.6C	5792	206
C10C5.6D	5736	141
C10C5.6E	5754	141
C10C5.7	272	129
C10C6.11	222	63
C10C6.12	209	59
C10C6.1A	5230	598
C10C6.1B	4569	516
C10C6.1C	5811	504
C10C6.1D	5907	600
C10C6.1E	5370	63
C10C6.1F	5358	51
C10C6.1G	5916	600
C10C6.1H	5638	4840
C10C6.2	1217	668
C10C6.5.1	1939	1343
C10C6.5.2	2190	1594
C10C6.6	3822	1768
C10C6.7A	677	267
C10C6.7B	679	382
C10C6.8	133	60
C10E2.1	1942	1149
C10E2.2.1	1591	440
C10E2.2.2	1605	454
C10E2.3A	2654	294
C10E2.3B	3390	131
C10E2.4	471	63
C10E2.5	493	336
C10E2.6	2313	105
C10E2.7	145	67
C10F3.12	149	43
C10F3.1	2507	2000
C10F3.18	281	55
C10F3.2	1343	688
C10F3.3	3343	1376
C10F3.4A	1452	17
C10F3.4B	1563	128
C10F3.5A	937	385
C10F3.5B	919	367
C10F3.6	2020	733
C10F3.7	672	141
C10G11.10	715	183
C10G11.13	128	21

C10G11.14	225	71
C10G11.16	150	78
C10G11.1A	580	399
C10G11.1B	722	166
C10G11.2	1023	821
C10G11.3	1092	820
C10G11.5A.1	1578	900
C10G11.5A.2	1751	1073
C10G11.5B.1	1496	900
C10G11.5B.2	1669	1073
C10G11.5C.1	1457	779
C10G11.5C.2	1555	877
C10G11.6A	1181	20
C10G11.6B	1229	68
C10G11.7.1	1635	840
C10G11.7.2	1613	840
C10G11.7.3	1628	840
C10G11.8	1419	17
C10G11.9	641	170
C10G6.1A.1	2093	1234
C10G6.1A.2	2189	1330
C10G6.1B.1	2079	1234
C10G6.1B.2	2175	1330
C10G8.1	1014	388
C10G8.2	627	205
C10G8.3	570	224
C10G8.5A	3709	2798
C10G8.5B	3559	2648
C10G8.5C	1336	370
C10G8.5D	2932	919
C10G8.6	1093	115
C10G8.7	820	38
C10G8.8A	1400	943
C10G8.8B.1	1180	723
C10G8.8B.2	1314	857
C10H11.10	1407	493
C10H11.11	141	19
C10H11.12	440	30
C10H11.1	3026	249
C10H11.14	147	25
C10H11.3	1665	310
C10H11.4	1713	622
C10H11.5	1597	84
C10H11.6A	1862	526

C10H11.6B	1831	495
C10H11.7	1031	250
C10H11.8A	1212	410
C10H11.8B	1096	18
C10H11.9	4287	316
C11D2.2	1174	345
C11D2.3	738	66
C11D2.4	1233	836
C11D2.6A	5720	856
C11D2.6B.1	5556	692
C11D2.6B.2	5698	834
C11D2.6C	5658	692
C11D2.6D	5822	856
C11D2.6E	5628	856
C11D2.6F	5464	692
C11D2.6G	5730	856
C11D2.6H	5566	692
C11D2.6I	5683	717
C11D2.6J	5489	717
C11D2.6K	5581	717
C11D2.6L	5591	717
C11D2.6M	5737	771
C11D2.6N	5543	771
C11D2.6O	5635	771
C11D2.6P	5645	771
C11D2.7	727	19
C11D2.99	253	80
C11D9.1	2925	1895
C11E4.12	140	43
C11E4.17	150	27
C11E4.1	914	110
C11E4.2	797	201
C11E4.3	1731	905
C11E4.6	3958	2668
C11E4.7A	1221	550
C11E4.7B	1032	361
C11E4.8	685	303
C11G10.1	733	199
C11G10.2	400	176
C11G10.4	143	36
C11G10.6	268	50
C11G6.1A	3470	2813
C11G6.1B	1483	826
C11G6.1C	1077	420

C11G6.2	510	5
C11G6.4A	1681	1173
C11G6.4B.1	1505	997
C11G6.4B.2	1926	1418
C11H1.2	1627	1102
C11H1.3	1994	882
C11H1.4A	3374	1101
C11H1.4B	1072	488
C11H1.5	1798	536
C11H1.8	576	117
C11H1.9A	1541	1220
C11H1.9B	1382	1147
C12C8.1	2013	1026
C12C8.2A	1562	733
C12C8.2B	829	527
C12C8.3A.1	4754	736
C12C8.3A.2	4695	677
C12C8.3B.1	3820	736
C12C8.3B.2	3761	677
C12D12.10	259	79
C12D12.1A	2548	1545
C12D12.1B	2109	1471
C12D12.1C	2716	294
C12D12.2A	1854	1299
C12D12.2B	1757	1202
C12D12.3	573	334
C12D12.5	827	375
C12D12.7	896	269
C12D12.9	191	54
C12D5.10	1074	140
C12D5.11	1142	225
C12D5.2	1276	947
C12D5.3	702	310
C12D5.4	555	369
C12D5.5	640	373
C12D5.7	1662	160
C12D5.8A	1269	54
C12D5.9	1064	355
C12D8.10A	2119	791
C12D8.10B	2134	1127
C12D8.10C	1996	791
C12D8.11	2034	906
C12D8.14	298	2
C12D8.15	399	194

C12D8.1A	1986	1563
C12D8.1B	2552	2129
C12D8.1C.1	1813	1390
C12D8.1C.2	1930	1507
C12D8.1C.3	1868	1445
C12D8.1D	1718	1411
C12D8.20	891	462
C12D8.25	141	51
C12D8.4	436	100
C12D8.5	1459	315
C12D8.8	888	77
C12D8.9A	279	84
C12D8.9B	278	83
C13A10.1	1612	1195
C13A10.2	514	153
C13A2.1	1773	749
C13A2.2	579	279
C13A2.3	1297	700
C13A2.4.1	960	498
C13A2.4.2	1040	578
C13A2.5	1752	468
C13A2.6	1644	432
C13A2.9	1002	234
C13B4.1A	3194	2881
C13B4.1B.1	3047	2885
C13B4.1B.2	3184	2885
C13B4.1C	1026	713
C13B4.2	1689	1125
C13B7.1	1041	127
C13B7.2	1017	500
C13B7.4	972	200
C13B7.5	1014	423
C13B7.6	582	276
C13B9.2	1392	38
C13B9.3	1853	726
C13B9.4A.1	2274	1578
C13B9.4A.2	2961	2221
C13B9.4B.1	2187	1491
C13B9.4B.2	2931	2191
C13B9.4C.1	1705	1578
C13B9.4C.2	2992	2221
C13B9.4D	1618	1491
C13B9.4E	2097	61
C13C12.1A	756	356

C13C12.1B	787	15
C13C12.2	1475	865
C13C4.1	1360	260
C13C4.2	1430	718
C13C4.3	1420	716
C13C4.4	1019	406
C13C4.5	1868	987
C13C4.6	1643	167
C13C4.7	862	539
C13C4.8	872	287
C13D9.13	149	73
C13D9.2	1121	499
C13D9.3	1356	853
C13D9.4	993	710
C13D9.5	876	56
C13D9.6	876	256
C13D9.7	2314	1489
C13D9.8	1956	896
C13D9.9	1628	1083
C13E3.1	3118	1674
C13F10.1A	794	462
C13F10.1B	851	158
C13F10.2	423	13
C13F10.4	6577	1978
C13F10.5	641	219
C13F10.6	1567	275
C13F10.7.1	956	138
C13F10.7.2	983	165
C13G3.10	134	29
C13G3.1	832	204
C13G3.2	690	315
C13G3.3A	2021	427
C13G3.3B.1	2033	439
C13G3.3B.2	2078	484
C13G3.3C	2187	593
C13G3.3D	2067	473
C13G3.4	196	35
C13G3.7	135	46
C13G5.1.1	568	376
C13G5.1.2	625	433
C13G5.2	1147	920
C14A11.13	139	30
C14A11.1	714	332
C14A11.2	939	503

C14A11.3A	1631	1302
C14A11.3B	3677	1372
C14A11.3C	1944	1329
C14A11.5	1518	1102
C14A11.6	1599	606
C14A11.7	1058	478
C14A11.9	880	212
C14A4.10	445	74
C14A4.11.1	1065	38
C14A4.11.2	1114	87
C14A4.12A	2326	504
C14A4.12B	2266	1887
C14A4.13	1457	304
C14A4.14	1429	244
C14A4.15	1025	672
C14A4.2	1242	1007
C14A4.3	2013	1309
C14A4.4A	2727	175
C14A4.4B	1880	175
C14A4.5	688	301
C14A4.6	866	20
C14A4.7A	684	443
C14A4.7B	432	194
C14A4.8	756	151
C14A4.9	559	64
C14A6.1	1008	611
C14A6.13	759	469
C14A6.5	449	317
C14A6.6	687	388
C14A6.7	352	205
C14A6.8	390	223
C14B1.10.1	1969	733
C14B1.10.2	1908	733
C14B1.1.1	1597	407
C14B1.1.2	1612	422
C14B1.2	744	112
C14B1.3	1261	258
C14B1.4	1361	358
C14B1.5	1292	960
C14B1.6	2569	1806
C14B1.7A	3318	2702
C14B1.7B	3014	2792
C14B1.8	696	408
C14B1.9	1277	89

C14B4.2	5361	3678
C14B9.10	355	68
C14B9.12	138	15
C14B9.13	143	72
C14B9.1	505	80
C14B9.2	2112	1704
C14B9.3	1155	5
C14B9.4A	2288	772
C14B9.4B	2299	775
C14B9.6A	5960	1152
C14B9.6C	5711	1152
C14B9.7.1	535	221
C14B9.7.2	771	457
C14B9.8	3997	1713
C14C10.1	1005	238
C14C10.2A	1094	704
C14C10.2B	1025	423
C14C10.3A	2266	1069
C14C10.3B	2234	1069
C14C10.3C	2450	1069
C14C10.4	3373	37
C14C10.5A	6118	5247
C14C10.5B	6070	5199
C14C10.6	638	131
C14C10.7	432	278
C14C10.9	232	92
C14C11.11	433	170
C14C11.2.1	1909	1248
C14C11.2.2	1947	1286
C14C11.3	1934	1401
C14C11.4	1731	1349
C14C11.5	969	259
C14C11.6	1754	1305
C14C11.7	833	409
C14C11.8A	2091	645
C14C11.8B	2358	909
C14C6.13	903	213
C14C6.2	696	205
C14C6.3	1044	738
C14C6.4	1295	90
C14C6.5	566	139
C14C6.6	1607	108
C14C6.7	1577	1289
C14C6.8	1497	904

C14C6.9	915	231
C14E2.1	402	201
C14E2.2	1173	599
C14E2.3	618	323
C14E2.4	933	158
C14E2.5	791	406
C14E2.6	585	276
C14E2.7	402	218
C14F11.14	147	17
C14F11.17	270	25
C14F11.1A.1	1476	243
C14F11.1A.2	1504	271
C14F11.1B.1	1355	243
C14F11.1B.2	1383	271
C14F11.20	176	39
C14F11.2	2019	104
C14F11.24	150	48
C14F11.26	136	61
C14F11.27	150	28
C14F11.28	150	21
C14F11.30	211	61
C14F11.3	1467	625
C14F11.32	201	79
C14F11.4A	1439	631
C14F11.4B	1367	559
C14F11.5A	1310	166
C14F11.5B	1319	166
C14F11.6.1	784	226
C14F11.6.2	709	226
C14F11.7	355	51
C14F5.10	193	65
C14F5.11	211	9
C14F5.12	520	70
C14F5.1A	1170	134
C14F5.1B	1165	134
C14F5.3A.1	1358	7
C14F5.3A.2	1419	68
C14F5.3B	3711	3395
C14F5.3C.1	1313	7
C14F5.3C.2	1374	68
C14F5.3D	3792	2502
C14F5.4	1146	727
C14F5.5	1084	512
C14F5.8	227	43

C14H10.1	1356	933
C14H10.2A	2537	107
C14H10.2B.1	1727	1290
C14H10.2B.2	1852	1415
C14H10.3A	2918	421
C14H10.3B.1	2798	301
C14H10.3B.2	3035	538
C14H10.4	1115	910
C15A11.1	1239	701
C15A11.3	1880	253
C15A11.4	1453	640
C15A11.7A	1585	171
C15A11.7B	1168	161
C15A7.1	1300	94
C15A7.2	1700	1273
C15A7.4	1182	18
C15B12.1	1248	959
C15B12.15	209	32
C15B12.2	1341	46
C15B12.3	279	130
C15B12.4	1853	1063
C15B12.5A	2049	47
C15B12.5B	2142	47
C15B12.5C	1869	47
C15B12.6	1302	28
C15B12.7A	2021	138
C15B12.7B	2136	127
C15B12.8	1415	576
C15B12.9	807	529
C15C6.1	834	39
C15C6.2A	976	117
C15C6.2B	1004	117
C15C6.3	2102	930
C15C6.4	703	367
C15C7.1	667	162
C15C7.2	2073	1207
C15C7.5	747	115
C15C7.6	1353	83
C15C7.7	1334	961
C15C8.11	193	49
C15C8.1	1458	480
C15C8.2A	1959	1444
C15C8.2B	2306	1444
C15C8.3A	1379	991

C15C8.3B.1	918	530
C15C8.3B.2	1332	944
C15C8.4	1296	103
C15C8.5	1023	192
C15C8.6	972	836
C15C8.7	505	73
C15C8.8	627	189
C15F1.1	1187	627
C15F1.15	245	52
C15F1.2	2644	25
C15F1.3A	4655	2141
C15F1.3B	3543	2141
C15F1.3C	1891	76
C15F1.4	1320	406
C15F1.5A	1224	799
C15F1.5B	1169	744
C15F1.6	1136	767
C15F1.7A	719	87
C15F1.7B.1	659	27
C15F1.7B.2	672	40
C15H11.10	563	421
C15H11.11A	288	78
C15H11.11B	282	72
C15H11.13	517	171
C15H11.1	389	155
C15H11.16	606	267
C15H11.2A	1140	648
C15H11.2B	1051	559
C15H11.3A	2103	149
C15H11.3B	2048	94
C15H11.4.1	1163	57
C15H11.4.2	1173	67
C15H11.5.1	1658	222
C15H11.5.2	1658	222
C15H11.6.1	1427	254
C15H11.6.2	1396	223
C15H11.7	1057	29
C15H11.8.1	471	60
C15H11.8.2	533	117
C15H11.9	1120	75
C15H7.3	1254	928
C15H7.4	1041	664
C15H7.7	147	58
C15H7.9	219	15

C15H9.11.1	418	112
C15H9.11.2	453	147
C15H9.1	3224	1682
C15H9.2	863	316
C15H9.3	945	581
C15H9.4	1498	549
C15H9.5.1	2391	1350
C15H9.5.2	2405	1364
C15H9.6A.1	2371	655
C15H9.6A.2	2666	950
C15H9.6A.3	2387	671
C15H9.6B	1652	669
C15H9.7	1527	166
C15H9.8A	1270	413
C15H9.8B	826	89
C15H9.9.1	510	16
C15H9.9.2	584	16
C15H9.9.3	635	67
C16A11.10	1457	511
C16A11.1A	1092	514
C16A11.1B	1590	1012
C16A11.2A.1	1860	1516
C16A11.2A.2	1890	1546
C16A11.2B	1974	1630
C16A11.3	1124	441
C16A11.4A	1741	1450
C16A11.4B	1690	1399
C16A11.5	2014	546
C16A11.6	986	172
C16A11.7.1	766	512
C16A11.7.2	762	512
C16A11.8	654	280
C16A11.9	837	387
C16A3.10A.1	1421	428
C16A3.10A.2	1454	461
C16A3.10A.3	1458	465
C16A3.10B	1226	185
C16A3.10C.1	1226	428
C16A3.10C.2	1259	461
C16A3.10C.3	1263	465
C16A3.1A	2235	123
C16A3.1B	2229	117
C16A3.1C	2241	120
C16A3.2	855	292

C16A3.3	5459	2163
C16A3.4	1263	985
C16A3.5.1	642	38
C16A3.5.2	719	115
C16A3.6	1125	453
C16A3.7	3540	1103
C16A3.8.1	4429	2666
C16A3.8.2	4448	2666
C16A3.9	510	230
C16B8.11	145	19
C16B8.1.1	1882	1187
C16B8.1.2	1937	1242
C16B8.13	220	71
C16B8.2	2301	1444
C16B8.3	602	157
C16B8.4	1738	1183
C16B8.6	140	59
C16C10.10	905	39
C16C10.1	1427	563
C16C10.11	695	181
C16C10.12	1965	1706
C16C10.13.1	813	453
C16C10.13.2	789	429
C16C10.2	929	392
C16C10.3	3537	78
C16C10.4.1	602	91
C16C10.4.2	618	91
C16C10.4.3	691	162
C16C10.5	1300	498
C16C10.7	993	508
C16C10.8	854	445
C16C10.9	839	647
C16C2.1	552	111
C16C2.2A.1	2311	45
C16C2.2A.2	2482	216
C16C2.2B.1	2345	45
C16C2.2B.2	2516	216
C16C2.3A	2618	1497
C16C2.3B	1195	74
C16C2.4	1242	84
C16C2.5	258	47
C16C2.6	212	22
C16C2.7	223	127
C16C2.8	285	70

C16C4.1	180	8
C16C4.12	825	64
C16C4.13	1488	54
C16C4.14	774	347
C16C4.17B	243	7
C16C4.18	256	26
C16C4.3	828	473
C16C4.4A	949	181
C16C4.4B	1074	72
C16C4.5	1008	320
C16C8.11	815	584
C16C8.13	820	632
C16C8.14	994	800
C16C8.16	879	648
C16C8.17	1020	705
C16C8.18	885	267
C16C8.19	506	166
C16C8.21	506	383
C16C8.22	481	259
C16C8.2	2532	1258
C16C8.4	799	556
C16C8.5	543	328
C16C8.9	525	329
C16D2.1A	618	324
C16D2.1B	665	371
C16D2.1C	404	111
C16D2.2	292	51
C16D2.3	213	85
C16D6.1	440	127
C16D6.2	2033	933
C16D6.3	471	93
C16D6.4	1921	1526
C16D9.1	1356	921
C16D9.2	7688	1033
C16D9.3	1299	483
C16D9.4	1261	1001
C16D9.5	1330	313
C16D9.6	1213	749
C16D9.7	942	477
C16D9.8	434	192
C16D9.9	374	156
C16E9.11	257	80
C16E9.1	1736	642
C16E9.15	371	146

C16E9.16	150	35
C16E9.20	150	59
C16E9.21	384	176
C16E9.25	285	142
C16E9.27	219	51
C16E9.29	281	76
C16E9.2A	1706	196
C16E9.4A	2550	144
C16E9.4B	1387	685
C16H3.1	636	349
C16H3.2	554	126
C16H3.3A	2748	2292
C16H3.3B	2404	1948
C17A2.1	996	392
C17A2.2	1379	209
C17A2.3	1047	117
C17A2.4	1047	237
C17A2.5	2196	797
C17A2.7	876	126
C17B7.10	1721	330
C17B7.11	1085	697
C17B7.2	1067	478
C17B7.3A	684	48
C17B7.3B	138	4
C17B7.4	649	507
C17B7.5	2629	2250
C17B7.8A	1485	591
C17B7.8B	1570	676
C17C3.11.1	778	584
C17C3.11.2	900	600
C17C3.12A.1	1400	708
C17C3.12A.2	1028	708
C17C3.12B	1150	471
C17C3.12C.1	1337	658
C17C3.12C.2	1420	741
C17C3.15	594	287
C17C3.18	222	29
C17C3.19	273	124
C17C3.1A	1370	737
C17C3.1B	1425	792
C17C3.1E	1337	704
C17C3.20	237	26
C17C3.24.1	303	70
C17C3.24.2	284	31

C17C3.3	1162	624
C17C3.4	276	137
C17C3.6	441	135
C17C3.9	591	233
C17D12.1A	943	207
C17D12.1B	931	195
C17D12.2	1827	257
C17D12.3	1257	21
C17D12.5	472	74
C17D12.6A	2024	974
C17D12.6B	1159	109
C17D12.7	1900	698
C17D12.9	276	145
C17E4.10A.1	1572	1113
C17E4.10A.2	1597	1138
C17E4.10B	720	261
C17E4.14	150	54
C17E4.15	201	39
C17E4.17	168	64
C17E4.1A	1278	1119
C17E4.1B	1129	970
C17E4.20	1686	1111
C17E4.2	863	517
C17E4.3	1496	695
C17E4.4	484	170
C17E4.5	985	350
C17E4.6	1712	24
C17E4.9.1	2084	757
C17E4.9.2	2061	734
C17E7.10	1053	814
C17E7.11	1101	457
C17E7.12	394	114
C17E7.13	855	281
C17E7.1	654	207
C17E7.2	1002	460
C17E7.3	978	757
C17E7.4	1180	663
C17E7.5	1101	449
C17E7.6	1237	790
C17E7.7	1215	64
C17E7.8A	1205	830
C17E7.8B	1208	832
C17E7.9A	1008	172
C17E7.9B	924	110

C17F3.3	933	85
C17F4.11	562	145
C17F4.1	489	66
C17F4.2	397	146
C17F4.3	831	188
C17F4.4	957	270
C17F4.5	1105	769
C17F4.6	3701	2800
C17F4.7	673	462
C17F4.8	684	56
C17G10.10	450	228
C17G10.11	149	11
C17G10.1.1	1585	446
C17G10.1.2	1598	459
C17G10.2	1384	165
C17G10.3	1103	257
C17G10.4A	2541	1834
C17G10.4B.1	3257	1836
C17G10.4B.2	3324	1836
C17G10.4C	2520	1836
C17G10.4D	2586	1834
C17G10.4E	2583	1876
C17G10.6A	2052	335
C17G10.6B	1464	182
C17G10.8	1451	555
C17G10.9A	1949	1347
C17G10.9B	1943	1341
C17G1.10	143	31
C17G1.11	130	52
C17G1.14	239	80
C17G1.1	843	267
C17G1.2	923	85
C17G1.3A	1661	897
C17G1.3B.1	1483	719
C17G1.3B.2	1534	770
C17G1.4A	3084	43
C17G1.4B	3062	43
C17G1.5	1281	681
C17G1.6A	2535	1652
C17G1.6B	2295	1928
C17G1.7	1253	282
C17G1.8	1128	679
C17G1.9	170	32
C17H1.10.1	1152	747

C17H1.10.2	1162	757
C17H11.10	201	33
C17H11.1	1562	1265
C17H1.11	277	59
C17H11.2	2614	805
C17H1.14	1191	795
C17H11.4	348	142
C17H11.5	503	311
C17H11.6A.1	2729	1834
C17H11.6A.2	3027	2132
C17H11.6B.1	2738	1843
C17H11.6B.2	3036	2141
C17H11.6C.1	2829	1834
C17H11.6C.2	3127	2132
C17H11.6D	3125	2130
C17H11.8	197	55
C17H12.10	816	191
C17H12.12	1824	160
C17H12.1	2476	1684
C17H12.13A	1270	104
C17H12.13B	1084	528
C17H12.14	1140	232
C17H12.2.1	1834	1309
C17H12.2.2	2012	1309
C17H12.3.1	1215	698
C17H12.3.2	1214	697
C17H12.35	141	50
C17H12.36	227	25
C17H12.37	749	485
C17H12.4	1896	1240
C17H12.5	1415	429
C17H1.2	660	67
C17H12.6A	1098	49
C17H12.6B	567	49
C17H12.8	1262	574
C17H12.9	1848	532
C17H1.3	1164	35
C17H1.4	1148	210
C17H1.5	1206	185
C17H1.7	1349	125
C17H1.9	1199	613
C18A11.12	346	9
C18A11.2	300	87
C18A11.3	909	432

C18A11.5A	571	317
C18A11.5B	1897	900
C18A11.5C	1281	900
C18A11.7A	2479	1309
C18A11.7B	1525	355
C18A3.10	418	113
C18A3.1	1113	839
C18A3.11	669	238
C18A3.19	165	49
C18A3.2.1	1308	933
C18A3.2.2	1290	933
C18A3.3	1193	149
C18A3.4A.1	1443	823
C18A3.4A.2	1347	727
C18A3.4B.1	1781	823
C18A3.4B.2	1685	727
C18A3.4C.1	1738	25
C18A3.4C.2	1642	280
C18A3.5A	1735	894
C18A3.5B	1639	798
C18A3.5C	560	293
C18A3.5E	1824	983
C18A3.5F	1726	885
C18A3.6A	1256	56
C18A3.6B	1214	14
C18A3.8	887	457
C18A3.9	369	109
C18B10.1	986	314
C18B10.2	903	739
C18B10.5	952	285
C18B10.6	1322	977
C18B10.7	1078	589
C18B10.8	984	488
C18B12.2	1668	295
C18B12.3	959	450
C18B12.4	1706	459
C18B12.5	1098	34
C18B12.6	1978	780
C18B12.9	210	12
C18B2.1	966	810
C18B2.2	1735	663
C18B2.3	1270	185
C18B2.4	1060	118
C18B2.5A	2221	59

C18B2.5B	2299	59
C18B2.6	1800	1468
C18C4.10A.1	1803	1391
C18C4.10A.2	2113	1701
C18C4.10B.1	2016	1291
C18C4.10B.2	1999	1274
C18C4.10B.3	2426	1701
C18C4.10C.1	1703	1291
C18C4.10C.2	1686	1274
C18C4.10C.3	2113	1701
C18C4.10D.1	1664	1291
C18C4.10D.2	1647	1274
C18C4.10D.3	2074	1701
C18C4.17	152	77
C18C4.1B	1508	855
C18C4.1C	1430	844
C18C4.1D	1271	618
C18C4.2	3858	386
C18C4.3.1	1591	833
C18C4.3.2	1602	844
C18C4.5A	3438	1254
C18C4.5B	3520	1254
C18C4.7	850	661
C18C4.9	1288	522
C18D11.10	263	74
C18D11.1.1	2736	1834
C18D11.1	989	576
C18D11.1.2	2813	1911
C18D11.2	848	496
C18D11.13	184	17
C18D11.3.1	868	316
C18D11.3.2	720	168
C18D11.4A.1	1690	693
C18D11.4A.2	1893	896
C18D11.4B	1241	244
C18D11.7	1029	40
C18D11.9	312	77
C18D1.20	278	54
C18D1.2	1437	262
C18D1.3	494	194
C18D1.4	1101	277
C18D4.12	512	11
C18D4.2A	5648	4249
C18D4.2B	4666	793

C18D4.3	372	192
C18D4.5	918	490
C18D4.6A	1031	126
C18D4.6B	391	104
C18D4.6C	1060	126
C18E3.1	1008	466
C18E3.2.1	1523	1233
C18E3.2.2	1414	1233
C18E3.3	2868	500
C18E3.4	453	315
C18E3.5	1137	718
C18E3.6.1	1468	949
C18E3.6.2	1484	965
C18E3.7A	2913	1222
C18E3.7C	2848	1157
C18E3.7D	2501	810
C18E3.8	1154	95
C18E3.9A	1112	474
C18E3.9B	1124	474
C18E9.10	892	163
C18E9.11A	1207	309
C18E9.11B	1221	323
C18E9.12	137	28
C18E9.1	759	437
C18E9.2A	1481	1076
C18E9.2B	1110	970
C18E9.3A	2148	241
C18E9.3B	2139	232
C18E9.3C.1	1991	84
C18E9.3C.2	1999	92
C18E9.3D	2000	93
C18E9.3E.1	1682	84
C18E9.3E.2	1690	92
C18E9.3F.1	1985	84
C18E9.3F.2	1993	92
C18E9.3G	1691	93
C18E9.4	429	175
C18E9.5	969	551
C18E9.6	1323	735
C18E9.7	2905	124
C18E9.8	1800	1618
C18E9.9	636	157
C18F10.2	2205	1905
C18F10.4	1129	524

C18F10.5	984	729
C18F10.6	999	764
C18F10.7A	1989	1440
C18F10.7B	566	146
C18F10.8	1020	136
C18F10.9	588	50
C18F3.10	206	43
C18F3.2A	4814	1197
C18F3.2B	4765	1632
C18F3.2C	4774	1632
C18F3.2D	4339	1197
C18F3.2E	1474	197
C18F3.2F	1465	197
C18F3.4A	983	29
C18F3.4B	938	29
C18G1.10	236	7
C18G1.1	617	487
C18G1.2A	845	379
C18G1.2B	729	263
C18G1.3A	1198	905
C18G1.3B	1149	978
C18G1.3C	1026	801
C18G1.4A	2296	1606
C18G1.4B	2140	1450
C18G1.5	975	263
C18G1.6.1	1487	1273
C18G1.6.2	1501	1287
C18G1.8	1065	869
C18H2.1	5313	4333
C18H2.3	2226	962
C18H2.4	3237	2815
C18H2.5	3588	81
C18H7.11	1266	141
C18H7.12	1570	401
C18H7.1A	1521	31
C18H7.1C	1458	303
C18H7.2A	1599	284
C18H7.2B.1	1625	284
C18H7.2B.2	1348	284
C18H7.3	1383	218
C18H7.4.1	1337	780
C18H7.4.2	1327	770
C18H7.6	1723	1076
C18H7.7.1	505	66

C18H7.7.2	557	14
C18H7.9	435	112
C18H9.1	1009	467
C18H9.11	149	39
C18H9.3	3228	290
C18H9.5	1406	55
C18H9.6	780	407
C18H9.7	2127	122
C18H9.8	2290	615
C23F12.1A	11782	4039
C23F12.1B	2809	2082
C23F12.1C	9144	1320
C23F12.1D	7857	1320
C23F12.3	531	60
C23F12.4	787	95
C23F12.7	164	11
C23G10.10	438	220
C23G10.11	327	33
C23G10.1A	1165	874
C23G10.1B	1489	1198
C23G10.2A	581	84
C23G10.2B	570	415
C23G10.2C	517	323
C23G10.3.1	807	519
C23G10.3.2	807	519
C23G10.4A.1	2616	3
C23G10.4A.2	2646	33
C23G10.4B.1	3072	3
C23G10.4B.2	3102	33
C23G10.5	846	142
C23G10.6	1675	1394
C23G10.7A	1863	1290
C23G10.7B	1923	1315
C23G10.7C	1896	1315
C23G10.8.1	2964	1377
C23G10.8.2	2964	1377
C23H3.1	1298	158
C23H3.2A.1	1221	211
C23H3.2A.2	1232	222
C23H3.2B.1	1061	51
C23H3.2B.2	1231	221
C23H3.3A	1139	399
C23H3.3B	1250	399
C23H3.4A.1	1566	378

C23H3.4A.2	1638	450
C23H3.4B.1	1566	378
C23H3.4B.2	1543	355
C23H3.4B.3	1638	450
C23H3.5	1464	23
C23H3.7	2107	72
C23H3.9A	1993	300
C23H3.9B	1899	1066
C23H3.9C	1524	623
C23H3.9D	1722	889
C23H4.1.1	1942	874
C23H4.1.2	147	69
C23H4.1.2	2008	944
C23H4.1.3	2083	1019
C23H4.1.4	2044	980
C23H4.2	1792	264
C23H4.3	1964	228
C23H4.4A	1926	1111
C23H4.4B	903	88
C23H4.6A	3596	273
C23H4.6B	3446	123
C23H4.7	2067	825
C23H4.8	852	267
C23H5.11A	1266	531
C23H5.12	798	470
C23H5.15	682	14
C23H5.2	951	210
C23H5.3	383	111
C23H5.7	1887	761
C23H5.8A	737	475
C23H5.8B.1	626	390
C23H5.8B.2	695	475
C23H5.8C	640	390
C23H5.8D	727	473
C23H5.9	735	7
C24A11.1	706	39
C24A11.2	561	315
C24A11.5	390	15
C24A1.1	546	147
C24A11.8A.1	2340	1501
C24A11.8A.2	2390	1551
C24A11.8B.1	2364	1525
C24A11.8B.2	2414	1575
C24A11.8C.1	2451	1825

C24A11.8C.2	2501	1875
C24A11.9	1561	157
C24A1.2A.1	1645	590
C24A1.2A.2	1638	590
C24A1.2B.1	1882	827
C24A1.2B.2	1875	827
C24A1.3A	2736	687
C24A1.3B	2495	687
C24A3.10	213	73
C24A3.1	1917	1255
C24A3.14	288	47
C24A3.2A.1	635	103
C24A3.2A.2	612	103
C24A3.2A.3	436	102
C24A3.2A.4	626	117
C24A3.2B.1	503	103
C24A3.2B.2	509	124
C24A3.4	1150	504
C24A3.6.1	1925	897
C24A3.6.2	1562	897
C24A3.9	360	170
C24A8.1	2049	813
C24A8.3	3543	1014
C24A8.5	457	77
C24A8.6	864	469
C24B5.1	1429	582
C24B5.2A	1530	284
C24B5.2B	609	284
C24B5.2C	1713	284
C24B5.3	2910	131
C24B5.5	987	698
C24B9.1	1038	912
C24B9.11	642	382
C24B9.12	1011	405
C24B9.14	1004	345
C24B9.16	864	154
C24B9.2	339	197
C24B9.3A	1593	673
C24B9.3B	1598	678
C24B9.4A	999	676
C24B9.4B	870	369
C24B9.5	999	886
C24B9.6	960	525
C24B9.7	948	773

C24B9.8	1050	262
C24B9.9	531	137
C24D10.1	1548	1283
C24D10.2.2	556	31
C24D10.4	755	117
C24D10.49	186	75
C24D10.5	913	303
C24D10.6	593	204
C24D10.7.1	331	149
C24D10.7.2	332	149
C24D10.8	422	173
C24F3.1A	1497	1034
C24F3.1B	1503	1040
C24F3.2	1001	91
C24F3.3	1155	871
C24F3.4A	2206	1302
C24F3.4B.1	2122	1218
C24F3.4B.2	2183	1279
C24F3.4C	1467	563
C24F3.5A	4715	3537
C24F3.5B	4726	3548
C24F3.6.1	986	67
C24F3.6.2	1144	67
C24F3.7	208	56
C24G6.1	879	216
C24G6.2A	2937	1399
C24G6.2B	1757	1200
C24G6.3	2930	749
C24G6.4	2018	677
C24G6.6.1	1785	1437
C24G6.6.2	1892	1544
C24G6.6.3	1859	19
C24G6.6.4	1824	1476
C24G6.7	1207	804
C24G6.8.1	1426	901
C24G6.8.2	1424	899
C24G6.8.3	1238	713
C24G6.8.4	1264	739
C24G7.1	1827	977
C24G7.2	1986	1421
C24G7.4	2211	1716
C24H10.1	831	123
C24H10.2	1057	68
C24H10.3	519	186

C24H10.5	1097	406
C24H11.3	1050	151
C24H11.4	972	121
C24H11.5A	204	15
C24H11.5B	332	17
C24H11.6	492	32
C24H11.7A	6321	5674
C24H11.7B	1829	1182
C24H11.8A	1962	1172
C24H11.8B	2031	1172
C24H12.18	326	77
C24H12.2	450	199
C24H12.4A	2004	293
C24H12.4B	1803	177
C24H12.5A	1931	155
C24H12.5B	1880	720
C24H12.5C	1883	723
C24H12.6	806	647
C25A1.10A	3189	553
C25A1.10B	2364	553
C25A11.10	1452	468
C25A1.1	1027	9
C25A11.1.1	646	385
C25A11.1.2	864	385
C25A1.11A	1605	543
C25A1.11B	1599	543
C25A1.12	1343	837
C25A11.4A	4737	3764
C25A11.4B	2842	544
C25A11.4C	3829	544
C25A11.4D	4614	3641
C25A11.4E	3084	889
C25A1.15	276	72
C25A11.6	190	36
C25A11.7	291	73
C25A11.8	216	61
C25A1.19	1137	424
C25A1.2.1	866	258
C25A1.2.2	857	249
C25A1.3	1267	273
C25A1.4.1	1639	373
C25A1.4.2	1681	415
C25A1.5	1306	192
C25A1.6	195	50

C25A1.7A	3281	2715
C25A1.7B	571	148
C25A1.8	1126	477
C25A1.9A	1371	1040
C25A1.9B	1358	1039
C25A6.1	903	472
C25A8.2	497	22
C25A8.4	3242	1559
C25A8.5	1251	501
C25B8.1A	2519	235
C25B8.1B	2494	210
C25B8.3A	1265	1094
C25B8.3B	1258	1087
C25B8.3C	1232	1061
C25B8.4A	805	156
C25B8.4B	875	226
C25B8.4C	491	156
C25B8.5	1098	668
C25B8.6	1684	250
C25B8.7	1339	902
C25B8.8	1067	623
C25D7.1	464	88
C25D7.15A	550	54
C25D7.15B	330	78
C25D7.18	208	15
C25D7.3	6567	6010
C25D7.4A	1076	99
C25D7.4B	1002	25
C25D7.5	1206	306
C25D7.6	2685	2274
C25D7.7	941	150
C25D7.8	1117	56
C25E10.10	726	325
C25E10.1	1342	202
C25E10.12	1097	97
C25E10.14	263	109
C25E10.16	577	323
C25E10.2	1491	941
C25E10.3A	1774	116
C25E10.3B	1890	116
C25E10.3C	917	718
C25E10.4	1652	558
C25E10.5	1621	846
C25E10.7	593	230

C25E10.8.1	544	114
C25E10.8.2	544	114
C25E10.9A	498	72
C25E10.9B.1	540	160
C25E10.9B.2	416	36
C25E10.9B.3	406	25
C25F6.10	197	26
C25F6.12	225	25
C25F6.14	196	34
C25F6.17	128	26
C25F6.1	959	125
C25F6.20	147	21
C25F6.24	296	173
C25F6.26	278	104
C25F6.27	187	57
C25F6.2A	3775	1121
C25F6.2B.1	1586	1122
C25F6.2B.2	1763	1299
C25F6.30	190	71
C25F6.3	3345	1478
C25F6.4	2301	727
C25F6.6	414	222
C25F6.7A	1365	130
C25F6.7B	1364	129
C25F6.8	614	187
C25F9.10A	568	320
C25F9.10B	481	233
C25F9.11.1	585	181
C25F9.11.2	671	267
C25F9.12	716	190
C25F9.17	147	32
C25F9.1A	1353	1098
C25F9.1B	1005	750
C25F9.1C	681	426
C25F9.2	4633	3284
C25F9.5.1	2268	725
C25F9.5.2	2177	634
C25F9.6	506	161
C25F9.7	528	181
C25F9.8	1136	890
C25G4.10A	4581	1410
C25G4.1	2147	1411
C25G4.2.1	740	333
C25G4.2.2	751	344

C25G4.3B	610	41
C25G4.4	1630	379
C25G4.5	4016	2931
C25G4.6.1	958	390
C25G4.6.2	956	390
C25G4.7A	1050	665
C25G4.7C	1209	665
C25G4.8	1207	1009
C25G6.1	456	34
C25G6.2	711	215
C25G6.3	1749	1444
C25G6.4	731	387
C25G6.5	1223	821
C25H3.10A	1001	251
C25H3.10B	915	251
C25H3.1	1117	676
C25H3.11	2921	16
C25H3.12	603	27
C25H3.14	545	352
C25H3.15	556	327
C25H3.16	467	222
C25H3.17	254	16
C25H3.3	803	325
C25H3.4	1832	89
C25H3.5	560	75
C25H3.6A	2586	1084
C25H3.6B	413	59
C25H3.7	980	479
C25H3.8	7444	5223
C25H3.9A	832	358
C25H3.9B	825	351
C26B2.11	123	46
C26B2.1.1	1479	408
C26B2.1.2	1394	323
C26B2.13	150	42
C26B2.2	711	88
C26B2.3A.1	2158	1420
C26B2.3A.2	2235	1497
C26B2.3B	1724	1378
C26B2.3C.1	2175	1299
C26B2.3C.2	2373	1497
C26B2.4	1197	567
C26B2.6	1095	89
C26B2.8	1101	707

C26B9.1A	1719	504
C26B9.1B	1658	443
C26B9.2	885	195
C26B9.3	963	627
C26B9.5	1705	1175
C26B9.6	960	189
C26C6.10	342	189
C26C6.13	180	13
C26C6.1A	6002	3940
C26C6.1B.1	1950	1046
C26C6.1B.2	2025	1121
C26C6.2	2007	973
C26C6.3	2165	1447
C26C6.4A	1185	403
C26C6.4B	936	154
C26C6.5A	3005	747
C26C6.5B	3014	747
C26C6.6	411	157
C26C6.7A	1113	152
C26C6.7B	1209	248
C26C6.8	822	590
C26C6.9	747	60
C26D10.1	2143	990
C26D10.2A	1525	571
C26D10.2B	1015	571
C26D10.3	1496	1003
C26D10.4	2530	703
C26D10.5A	2332	1816
C26D10.5B	2225	1676
C26D10.5C	399	105
C26D10.6A	1742	53
C26D10.6B	1549	8
C26E1.2A	1484	1094
C26E1.2B	1245	1094
C26E1.3	1795	1286
C26E6.11	858	543
C26E6.12	1296	611
C26E6.1	591	405
C26E6.2	1914	1151
C26E6.3	1993	451
C26E6.4	3960	1954
C26E6.5	1360	680
C26E6.6	1369	647
C26E6.7A.1	2053	476

C26E6.7A.2	1999	422
C26E6.7B.1	2059	476
C26E6.7B.2	2005	422
C26E6.8	1752	625
C26E6.9A	4728	857
C26E6.9B	2818	2069
C26E6.9C	5096	857
C26F1.10	442	134
C26F1.1A	453	61
C26F1.1B	594	95
C26F1.2	1688	1190
C26F1.3.1	650	347
C26F1.3.2	647	344
C26F1.4.1	451	25
C26F1.4.2	489	27
C26F1.5	1001	241
C26F1.6	1220	569
C26F1.7A.1	730	175
C26F1.7A.2	856	301
C26F1.7B	827	272
C26F1.9	247	68
C26G2.1	4097	305
C26G2.2	3491	1072
C26G2.3	241	105
C26G2.5	134	9
C26G2.6	144	64
C26G2.9	249	73
C26H9A.1A	3213	2419
C26H9A.1B	3868	613
C26H9A.2A.1	10448	9727
C26H9A.2A.2	10448	9727
C26H9A.2B.1	10454	9733
C26H9A.2B.2	10454	9733
C26H9A.2C.1	10460	9739
C26H9A.2C.2	10460	9739
C26H9A.2D.1	10454	9733
C26H9A.2D.2	10454	9733
C26H9A.3	249	85
C27A12.10	775	154
C27A12.2	2131	1457
C27A12.3	1677	128
C27A12.4	1325	178
C27A12.5	823	93
C27A12.6	1792	59

C27A12.7A.1	2095	249
C27A12.7A.2	2061	215
C27A12.7A.3	1952	106
C27A12.7B.1	1950	104
C27A12.7B.2	1952	106
C27A12.7B.3	1952	106
C27A12.7B.4	1996	150
C27A12.8.1	1890	1352
C27A12.8.2	1970	77
C27A12.9	2868	1276
C27A2.11	299	116
C27A2.12	1383	125
C27A2.1	3398	3131
C27A2.2A	435	202
C27A2.2B	489	280
C27A2.3.1	931	257
C27A2.3.2	1087	413
C27A2.4	1313	849
C27A2.5	582	32
C27A2.6	2504	2101
C27A2.7	705	151
C27A2.8	562	208
C27A7.1A	2662	45
C27A7.1B	2604	1633
C27A7.1C	2446	1475
C27A7.1D	2586	1615
C27A7.3A	2356	1989
C27A7.3B	2212	1845
C27A7.3C	2302	1935
C27A7.3D	2158	1791
C27A7.4	4314	1659
C27A7.5A	2296	1797
C27A7.5B	597	1
C27A7.5C	2301	1802
C27A7.5D	2260	1761
C27A7.5E	2270	1771
C27A7.6A	1795	55
C27A7.6B	1510	74
C27A7.6C	1804	64
C27A7.6D.1	1738	2
C27A7.6D.3	1759	30
C27A7.7	1011	783
C27A7.8A	519	115
C27A7.8B	519	115

C27A7.9	288	7
C27B7.1A	1153	641
C27B7.1B	1156	644
C27B7.2	711	42
C27B7.4	4188	1326
C27B7.5	1401	961
C27B7.6	1441	1148
C27B7.7A	4520	463
C27B7.7B	4367	461
C27B7.8	1316	273
C27C12.10	277	7
C27C12.1	1097	411
C27C12.2	2093	99
C27C12.3	1998	1003
C27C12.4	1462	730
C27C12.5A	1757	198
C27C12.5B	1798	227
C27C12.6	918	591
C27C12.7	2560	1944
C27C12.8	138	19
C27C7.1	1108	628
C27C7.3	951	339
C27C7.4	1454	459
C27C7.5A	879	505
C27C7.5B	840	466
C27C7.7	1203	666
C27D11.1	3588	256
C27D6.11	1072	91
C27D6.1	2508	1158
C27D6.12A	310	144
C27D6.12B	310	144
C27D6.13	147	58
C27D6.3	427	228
C27D6.4A	1332	244
C27D6.4B	1646	446
C27D6.4C	2077	877
C27D6.4D	1300	100
C27D6.6	1038	603
C27D8.1	1074	571
C27D8.2	1575	432
C27D8.3A	2606	498
C27D8.3B	2965	857
C27D8.4	1085	668
C27D9.1	1874	49

C27D9.2	615	413
C27F2.10	1437	59
C27F2.1	2096	1132
C27F2.2A	5512	1816
C27F2.2B	5484	1788
C27F2.4	1125	214
C27F2.5	1088	384
C27F2.7	1350	254
C27F2.8	5659	3286
C27F2.9	979	175
C27H2.2A	2922	128
C27H2.2B	227	48
C27H2.2C	2916	128
C27H5.1	480	120
C27H5.2A	1712	1230
C27H5.2B	1715	1230
C27H5.2C	1589	1230
C27H5.2D	1786	1230
C27H5.3.1	1586	444
C27H5.3.2	1672	530
C27H5.4A	1736	146
C27H5.4B	1645	50
C27H5.5A	865	476
C27H5.5B	847	29
C27H5.5C	1102	29
C27H5.6	1059	854
C27H5.7A	1820	176
C27H5.7B	1774	130
C27H5.8	1752	116
C27H6.1A	5359	2205
C27H6.1B	4513	1359
C27H6.1C	4240	1086
C27H6.2	1749	1383
C27H6.3	1327	278
C27H6.4A	1059	190
C27H6.4B	1282	352
C27H6.4C.1	844	18
C27H6.4C.2	1246	377
C27H6.4C.3	1025	156
C27H6.4C.4	962	51
C27H6.4C.5	919	25
C27H6.4C.6	999	68
C27H6.8	1175	69
C27H6.9	901	470

C28A5.1	3833	1542
C28A5.2	3771	1487
C28A5.3	1086	336
C28A5.4	1030	580
C28A5.6	3276	352
C28A5.8	150	62
C28C12.10	3236	63
C28C12.11A	805	375
C28C12.11B	840	412
C28C12.12	1302	277
C28C12.13	999	193
C28C12.2	740	469
C28C12.3	625	222
C28C12.4	819	216
C28C12.5	1387	1059
C28C12.7A	838	554
C28C12.7B	1354	962
C28C12.8	516	14
C28C12.9A.1	2011	990
C28C12.9A.2	2059	1038
C28C12.9B	1099	78
C28C12.9C	908	11
C28D4.10	378	151
C28D4.1	1387	513
C28D4.2A	1706	847
C28D4.2B	1628	769
C28D4.3.1	1516	1012
C28D4.3.2	1510	1006
C28D4.9	1550	210
C28F5.1	525	1
C28F5.2	1073	333
C28F5.4	2830	1520
C28F5.6	144	10
C28F5.7	143	38
C28F5.8	150	59
C28G1.10	785	381
C28G1.1	1194	286
C28G1.3	2578	1279
C28G1.4	3340	2998
C28G1.5A	1726	85
C28G1.5B	1043	254
C28G1.6	951	274
C28H8.11A.1	1298	454
C28H8.11A.2	1429	585

C28H8.11B.1	742	454
C28H8.11B.2	873	585
C28H8.11C.1	660	171
C28H8.11C.2	467	87
C28H8.12	1156	556
C28H8.14B	185	14
C28H8.2	686	528
C28H8.3	5456	722
C28H8.4.1	682	402
C28H8.4.2	889	402
C28H8.5A	909	314
C28H8.5B	886	291
C28H8.6A	1242	800
C28H8.6B	858	625
C28H8.6C	1066	624
C28H8.7	852	311
C28H8.9A	1434	913
C28H8.9B	586	277
C28H8.9C	725	271
C29A12.13	150	59
C29A12.15	148	7
C29A12.18	149	41
C29A12.1	880	144
C29A12.20	202	67
C29A12.21	217	80
C29A12.3A	2416	178
C29A12.3B	655	566
C29A12.4A	4887	628
C29A12.4B	5415	628
C29A12.4C	1551	8
C29A12.4D	1023	8
C29A12.4E	678	4
C29A12.4F	1656	184
C29A12.4G.1	492	301
C29A12.4G.2	492	301
C29A12.4H	1305	631
C29A12.4I	664	109
C29A12.4J	1269	184
C29A12.4K	5442	628
C29A12.4L	4914	628
C29A12.4M	1128	184
C29A12.6A	2051	1819
C29A12.6B	3062	1151
C29A12.9	203	40

C29E4.10	2013	888
C29E4.1	1130	808
C29E4.12	500	259
C29E4.13A	1050	384
C29E4.13B	1109	443
C29E4.13C.1	992	326
C29E4.13C.2	882	216
C29E4.13C.3	988	322
C29E4.13C.4	1166	500
C29E4.13C.5	870	204
C29E4.17	264	72
C29E4.2	2758	815
C29E4.3A	3525	683
C29E4.3B	3142	291
C29E4.4	3562	2174
C29E4.5A	2171	317
C29E4.5B	471	253
C29E4.7	1191	74
C29E4.8.1	1035	345
C29E4.8.2	1099	409
C29E6.11	147	36
C29E6.12	138	35
C29E6.13	217	17
C29E6.15	150	12
C29E6.1A.1	2630	604
C29E6.1A.2	2715	689
C29E6.1B.1	2153	604
C29E6.1B.2	2238	689
C29E6.1C.1	2273	604
C29E6.1C.2	2358	689
C29E6.2A	3731	31
C29E6.2B	3728	28
C29E6.4	2910	514
C29E6.5	1648	363
C29F3.1	2364	903
C29F3.2	1788	1054
C29F3.3	444	98
C29F3.4	525	171
C29F3.5	619	99
C29F3.7B	1452	60
C29F3.9	150	64
C29F4.2	1859	379
C29F4.3	1173	722
C29F5.1	1271	85

C29F5.2	1180	429
C29F5.3	1092	92
C29F5.4	774	397
C29F5.5	522	338
C29F5.7	915	434
C29F5.8	654	395
C29F7.10	808	372
C29F7.1	1309	503
C29F7.2	1310	282
C29F7.3	770	497
C29F7.4	1360	360
C29F7.6	3071	320
C29F9.13	507	138
C29F9.15	131	32
C29F9.1	890	626
C29F9.3A.1	926	642
C29F9.3A.2	939	655
C29F9.3B	528	36
C29F9.3C	875	591
C29F9.4	951	116
C29F9.5	681	275
C29F9.6.1	961	235
C29F9.6.2	1038	312
C29F9.6.3	1013	287
C29F9.7	1599	849
C29F9.8	765	322
C29G2.1	594	280
C29G2.3	801	226
C29G2.5	753	286
C29G2.6	705	241
C29H12.11	148	54
C29H12.1	1768	163
C29H12.13	197	75
C29H12.2.1	1523	915
C29H12.2.2	1529	921
C29H12.3A	1295	196
C29H12.3B	1557	458
C29H12.3C	1054	46
C29H12.5	2259	835
C29H12.6	1217	514
C29H12.8	204	40
C30A5.10A	3128	1060
C30A5.10B	1636	1060
C30A5.13	144	28

C30A5.15	195	71
C30A5.16	314	134
C30A5.2	762	601
C30A5.3	1047	32
C30A5.5	309	169
C30A5.7A	1286	653
C30A5.7B	1440	807
C30B5.10	236	58
C30B5.1	2502	2141
C30B5.16	147	48
C30B5.2A	724	413
C30B5.2B	763	400
C30B5.3	1832	1546
C30B5.4	976	305
C30B5.5	2445	424
C30B5.6A	764	441
C30B5.6B	1807	441
C30B5.7	1053	793
C30B5.9	572	196
C30C11.1	657	145
C30C11.2	1849	1175
C30C11.4.1	2695	2155
C30C11.4.2	2706	2166
C30D11.1A	2490	197
C30D11.1B	2466	2081
C30D11.1C	2592	2207
C30D11.1D	2418	150
C30D11.1E	2746	197
C30D11.1F	3184	1991
C30D11.1G	2145	1234
C30D11.1H	2001	1234
C30D11.1I	2238	1853
C30D11.1J	2697	157
C30D11.2	143	2
C30D11.3	148	44
C30D11.4	150	32
C30E1.3	768	25
C30E1.4	873	394
C30E1.5	960	17
C30E1.8	1275	905
C30E1.9B	1706	112
C30F12.1	2167	634
C30F12.2.1	1597	1128
C30F12.2.2	1642	1173

C30F12.3	875	585
C30F12.4	1075	222
C30F12.5A.1	1432	206
C30F12.5A.2	1763	206
C30F12.5B	1090	327
C30F12.6	1484	1040
C30F12.7	1441	595
C30F2.1	924	654
C30F2.2	1183	5
C30F2.3	1420	135
C30F2.4	213	51
C30F2.5	696	203
C30F8.2.1	1463	942
C30F8.2.2	1469	948
C30F8.2.3	1455	934
C30F8.3	1002	174
C30F8.4A	2809	2180
C30F8.4B	2891	2262
C30G12.1	1560	877
C30G12.3	453	118
C30G12.4	951	427
C30G12.6A	3386	217
C30G12.6B	3312	217
C30G12.7	1820	1367
C30G4.2	893	517
C30G4.3	3646	2712
C30G4.4A.1	478	142
C30G4.4A.2	623	125
C30G4.4B.1	762	473
C30G4.4B.2	915	626
C30G4.4C.2	575	125
C30G4.5	264	41
C30G4.7	758	306
C30G7.1	903	201
C30G7.2A	707	381
C30G7.2B	713	177
C30G7.3	1011	41
C30G7.4.2	600	249
C30G7.5	930	634
C30H6.10	538	76
C30H6.12A	588	366
C30H6.12B	608	386
C30H6.1B	2008	851
C30H6.1C	2043	833

C30H6.1D	2038	833
C30H6.1E	2005	833
C30H6.1F	1569	833
C30H6.2	1195	412
C30H6.4	1431	900
C30H6.5A	1808	750
C30H6.5B	1817	750
C30H6.6	2115	1023
C30H6.7A	1099	816
C30H6.7B	1015	815
C30H6.8	634	102
C30H6.9	945	38
C30H7.2A.1	1640	240
C30H7.2A.2	1772	372
C30H7.2B	1731	331
C31A11.1	2174	88
C31A11.13	244	59
C31A11.5	2184	1918
C31A11.6	993	347
C31A11.7	2233	511
C31A11.9	1059	161
C31B8.1	1033	692
C31B8.11	1038	291
C31B8.12	1173	611
C31B8.16	798	496
C31B8.2	681	138
C31B8.4	1143	56
C31B8.6	984	887
C31B8.7	1425	935
C31B8.8	1937	1661
C31B8.9	726	374
C31C9.1A	1539	1288
C31C9.1B	1464	1281
C31C9.2	1081	619
C31C9.3	1233	911
C31C9.4	1056	210
C31C9.7	470	145
C31C9.8	1173	877
C31E10.1	1053	737
C31E10.3	1238	490
C31E10.4	552	210
C31E10.5	2250	895
C31E10.6	2051	1433
C31E10.7.1	552	261

C31E10.7.2	574	283
C31E10.8	4166	290
C31G12.2	634	100
C31G12.4A	2637	581
C31G12.4B	2640	581
C31H1.1	1939	679
C31H1.2	1076	396
C31H1.5	1009	56
C31H1.6A	1195	383
C31H1.6B	1067	255
C31H1.6C	1056	255
C31H1.6D	1171	205
C31H1.8A	1970	929
C31H1.8B	1759	14
C31H1.8C	1964	923
C31H1.8D	1649	608
C31H1.97	157	19
C31H2.11	300	26
C31H2.1A	2563	872
C31H2.1B	2392	701
C31H2.2	1639	1221
C31H2.3	693	575
C31H2.4	1166	980
C31H5.1	1088	468
C31H5.3A	1858	360
C31H5.3B	1841	343
C31H5.4	326	56
C31H5.6A.1	1404	640
C31H5.6A.2	1718	954
C31H5.6B	1420	656
C31H5.7	440	292
C32A3.1A	1580	99
C32A3.1B	1502	21
C32A3.2	1152	696
C32A3.3A.1	1658	906
C32A3.3A.2	1653	901
C32A3.3A.3	1757	1005
C32A3.3B	1737	157
C32A3.6	154	44
C32A9.1	882	631
C32A9.3	141	22
C32B5.10	1307	1020
C32B5.13	666	257
C32B5.14	1269	993

C32B5.15	1083	273
C32B5.17A	725	1
C32B5.17B	620	1
C32B5.18	286	34
C32B5.1A	1407	338
C32B5.1B	870	205
C32B5.2	1040	264
C32B5.3	822	664
C32B5.4	1083	17
C32B5.5	967	777
C32B5.6	559	250
C32B5.7B	681	225
C32B5.7C	634	178
C32C4.1A	1638	1297
C32C4.1B	1617	1324
C32C4.1C	1583	1242
C32C4.1E	1620	1279
C32C4.1F	1656	1315
C32C4.1G	1953	1297
C32C4.1H	1776	1435
C32C4.1I	1596	1255
C32C4.2A	741	614
C32C4.2B	870	743
C32C4.2C	876	749
C32C4.2D	281	94
C32C4.3A	1109	934
C32C4.3B	1105	930
C32C4.3C	1253	934
C32C4.5A	528	196
C32C4.5B	322	80
C32C4.7	1727	515
C32C4.9	146	26
C32D5.10	2233	147
C32D5.11	2545	497
C32D5.12	1185	105
C32D5.1	945	315
C32D5.2	2132	1770
C32D5.3.1	2713	340
C32D5.3.2	2703	330
C32D5.4	1168	740
C32D5.5	1279	43
C32D5.6	1833	1507
C32D5.7	1467	897
C32D5.8A	609	229

C32D5.8B	694	314
C32D5.9	711	233
C32E12.1.1	1779	1407
C32E12.1.2	1778	1406
C32E12.2	2187	1783
C32E12.3	2049	1681
C32E12.4	4606	2267
C32E12.5.1	1867	967
C32E12.5.2	1925	1025
C32E8.10A	1856	1212
C32E8.10B	1689	1486
C32E8.10C	1988	1212
C32E8.10D	1619	1450
C32E8.10E	2023	1215
C32E8.10F	951	307
C32E8.10H	1695	1492
C32E8.11	6619	5194
C32E8.1	490	309
C32E8.2A	679	101
C32E8.2B	273	101
C32E8.3	657	8
C32E8.4.1	341	254
C32E8.4.2	550	254
C32E8.5.1	1035	116
C32E8.5.2	971	116
C32E8.6A	1568	1043
C32E8.6B	1686	1343
C32E8.7	1449	706
C32E8.8	2912	473
C32E8.9	886	584
C32F10.1A.1	2371	635
C32F10.1A.2	2690	954
C32F10.1B	1774	38
C32F10.2	3215	340
C32F10.4	1035	65
C32F10.5	2773	1749
C32F10.6	1812	1281
C32F10.8A.1	1882	94
C32F10.8A.2	1970	182
C32F10.8A.3	1883	95
C32F10.8A.4	1813	25
C32F10.8B.1	1595	94
C32F10.8B.2	1683	182
C32F10.8B.3	1596	95

C32F10.8B.4	1526	25
C32H11.12	1135	246
C32H11.13	1065	332
C32H11.1A	1561	841
C32H11.1B	1402	841
C32H11.3	1208	880
C32H11.4	1155	63
C33A11.1.1	2473	477
C33A11.1.2	2358	477
C33A11.2	1063	444
C33A11.4A	2076	1219
C33A11.4B	1800	943
C33A12.10	1020	754
C33A12.11	1011	780
C33A12.13	1078	762
C33A12.14	990	517
C33A12.15	597	211
C33A12.1	580	294
C33A12.19	820	435
C33A12.2	416	67
C33A12.3A	1077	455
C33A12.4	463	96
C33A12.6	1683	133
C33A12.7	853	274
C33A12.8	1008	544
C33B4.2	946	336
C33B4.3A	3751	3155
C33B4.3B	3237	1054
C33B4.3C	3841	3245
C33B4.4	482	69
C33B4.5	692	254
C33B4.7	241	143
C33B4.8	305	165
C33B4.9	150	14
C33C12.10	833	105
C33C12.11	492	368
C33C12.12	357	55
C33C12.3A	1717	1290
C33C12.3B	1719	1292
C33C12.4	559	360
C33C12.7	475	6
C33C12.8	1578	1106
C33C12.9	734	239
C33D12.1	1098	226

C33D12.11	205	45
C33D12.12	150	51
C33D12.16	134	15
C33D12.2	1641	522
C33D12.3	1689	1247
C33D12.6	2135	32
C33D12.7	1025	518
C33D3.1	1568	1118
C33D3.3	921	434
C33D3.4	519	368
C33D3.5	1641	735
C33D9.13	1368	950
C33D9.1A	2965	1131
C33D9.1B	2914	1131
C33D9.2	1020	698
C33D9.3A	2065	672
C33D9.3B.1	1664	280
C33D9.3B.2	2056	672
C33D9.4	972	374
C33E10.10	408	123
C33E10.2	1053	86
C33E10.5	1767	1103
C33F10.13	1191	109
C33F10.14	778	246
C33F10.18	149	6
C33F10.20	309	165
C33F10.2	2655	519
C33F10.23	211	10
C33F10.25	1382	254
C33F10.4	1093	593
C33F10.5A	3150	2278
C33F10.5B	3802	631
C33F10.5C	2443	1571
C33F10.5D	3759	588
C33F10.7A	1410	936
C33F10.7B	1014	481
C33F10.8	1531	464
C33G3.10	336	205
C33G3.1A	3016	480
C33G3.1B.1	3337	801
C33G3.1B.2	3237	701
C33G3.3	1508	235
C33G3.4	2817	1680
C33G3.5	1449	742

C33G3.6	2156	1070
C33G8.10	1154	158
C33G8.11.1	1139	176
C33G8.1	1143	1033
C33G8.11.2	1162	199
C33G8.12	1077	237
C33G8.13	1114	184
C33G8.2	1395	346
C33G8.3	544	192
C33G8.4	518	50
C33G8.5	1046	589
C33G8.6	1109	537
C33G8.7	1082	153
C33G8.8	1098	251
C33G8.9	1146	201
C33H5.10	1154	92
C33H5.11A.1	1790	350
C33H5.11A.2	1795	355
C33H5.11A.3	1836	396
C33H5.11B	1795	355
C33H5.12A	800	273
C33H5.12B	787	272
C33H5.12C	979	141
C33H5.13A	473	50
C33H5.13B	323	143
C33H5.14A	1612	77
C33H5.14B	1763	228
C33H5.15A	1094	405
C33H5.15B	968	405
C33H5.16	1183	608
C33H5.17	1391	179
C33H5.18A	1784	59
C33H5.18B	1814	142
C33H5.19.1	911	531
C33H5.19.2	909	529
C33H5.1	993	544
C33H5.2	1594	390
C33H5.6	971	689
C33H5.7	1237	956
C33H5.8	979	563
C33H5.9	2276	1228
C34B2.10	579	309
C34B2.11	868	261
C34B2.1A	305	70

C34B2.2	561	141
C34B2.3	1166	1028
C34B2.4	481	38
C34B2.5	744	94
C34B2.6	3060	830
C34B2.7.1	2037	1046
C34B2.7.2	2074	1083
C34B2.8	740	60
C34B2.9	761	464
C34B4.11	143	19
C34B4.13	272	73
C34B4.1A	3216	146
C34B4.1B	3514	444
C34B4.2A.1	1564	922
C34B4.2A.2	1722	1080
C34B4.2B	1104	952
C34B4.3	1342	518
C34B4.4	1740	1407
C34B4.7A	1083	191
C34B4.7B	858	478
C34B4.7C	1249	191
C34B7.1	1402	475
C34B7.2	2863	272
C34B7.3	1723	1190
C34B7.4	2060	256
C34C12.2	2222	445
C34C12.3	1681	25
C34C12.4.1	967	218
C34C12.4.2	1047	298
C34C12.5.1	967	29
C34C12.5.2	888	29
C34C12.6	1308	318
C34C12.8	890	321
C34C12.9	459	186
C34C6.10	1182	505
C34C6.1	963	774
C34C6.2A	2447	367
C34C6.2B	2010	961
C34C6.2C	2205	125
C34C6.3	1741	1347
C34C6.4	1841	1240
C34C6.5A	1706	1237
C34C6.5B.1	1592	1123
C34C6.5B.2	1635	1166

C34C6.5C	1690	1221
C34C6.5D.1	1635	1166
C34C6.5D.2	1463	994
C34C6.6A	1556	889
C34C6.6B	1547	880
C34C6.7A	1473	1144
C34C6.7B	1026	697
C34D10.1	898	408
C34D10.2A.1	3637	301
C34D10.2A.2	3618	301
C34D10.2B.1	2589	173
C34D10.2B.2	2236	173
C34D1.12	155	45
C34D1.13	265	17
C34D1.1	976	126
C34D1.2	345	47
C34D1.3	1071	112
C34D1.4A	1031	95
C34D1.4B	938	179
C34D1.4C.1	602	133
C34D1.4C.2	397	213
C34D1.5A	694	353
C34D1.5B	661	320
C34D1.6	224	113
C34D1.7	194	77
C34D4.10	1094	955
C34D4.1	1543	365
C34D4.11A	411	8
C34D4.11B	165	16
C34D4.12A	602	257
C34D4.12B	410	55
C34D4.13	532	28
C34D4.14A	8698	2806
C34D4.14B	8587	2695
C34D4.14C	8575	3038
C34D4.14D	8686	3149
C34D4.14E	8692	3155
C34D4.14F	8704	2806
C34D4.14G	8593	2695
C34D4.14H	8581	3044
C34D4.15A	1076	291
C34D4.15B	1062	291
C34D4.2	1077	156
C34D4.3	450	65

C34D4.4	992	643
C34D4.8	999	496
C34D4.9	1515	697
C34E10.11	1085	713
C34E10.1.1	1528	97
C34E10.1.2	1529	98
C34E10.2	1194	714
C34E10.3	2962	1348
C34E10.4A	1441	991
C34E10.4B	2056	1507
C34E10.5.1	2506	2049
C34E10.5.2	2351	2049
C34E10.5.3	2521	2064
C34E10.6.1	1937	786
C34E10.6.2	1846	786
C34E10.7	785	359
C34E10.8	3276	949
C34E10.9	482	157
C34E11.11	200	32
C34E11.1	1860	162
C34E11.17	186	41
C34E11.2A	2979	2239
C34E11.2B	2712	1972
C34E11.2C	2880	2140
C34E11.3A	5174	4012
C34E11.3B	5045	1182
C34E11.3C	1634	472
C34E11.3D	1505	511
C34E11.4	424	102
C34E11.7	189	40
C34E7.1A.1	2120	884
C34E7.1A.2	2188	952
C34E7.1B	1568	332
C34E7.1C	1481	245
C34E7.3	771	644
C34E7.4	1100	423
C34F11.15	210	53
C34F11.16	121	40
C34F11.1	749	152
C34F11.3A	2491	1474
C34F11.3B	2600	38
C34F11.3C	2682	1665
C34F11.5	2722	800
C34F11.8	937	681

C34F11.9A	2409	1685
C34F11.9B	3277	2553
C34F11.9C	2196	1685
C34F6.10	4933	548
C34F6.11	816	126
C34F6.1	3459	2601
C34F6.2	961	15
C34F6.3	914	174
C34F6.4	1325	313
C34F6.5A	768	331
C34F6.5B	693	256
C34F6.7	1995	1030
C34F6.8.1	1438	832
C34F6.8.2	1679	1073
C34F6.8.3	1742	1136
C34F6.9	4010	2259
C34G6.11	215	31
C34G6.1	5803	2700
C34G6.2	2353	1154
C34G6.3	521	280
C34G6.4	4154	280
C34G6.5	1457	1109
C34G6.6A	3751	2962
C34G6.6B	3763	2974
C34G6.6C	3763	1424
C34G6.7A	1591	462
C34G6.7B	1614	406
C34H3.10	218	36
C34H3.11	191	58
C34H3.1	1790	249
C34H3.16	266	70
C34H3.17	142	51
C34H3.20	134	49
C34H3.2	1022	271
C34H3.22	147	23
C34H3.4	187	74
C34H3.5	171	79
C34H3.6	289	70
C34H3.8	287	174
C34H4.1A	1230	492
C34H4.1B	358	144
C34H4.2	1485	684
C34H4.3A	1328	689
C34H4.3B	507	40

C34H4.3C	783	58
C34H4.4A	787	106
C34H4.4B	939	106
C34H4.5A.1	1317	627
C34H4.5A.2	1390	700
C34H4.5B	935	397
C35A11.1	1458	47
C35A11.2	1176	580
C35A11.3	999	157
C35A11.4	1704	472
C35A11.6	149	39
C35A11.8	289	167
C35A5.10	904	563
C35A5.1	1050	34
C35A5.11A	579	322
C35A5.12	182	64
C35A5.14	295	175
C35A5.2	1642	672
C35A5.3	1488	980
C35A5.4	1396	1079
C35A5.5	1739	411
C35A5.7	1574	209
C35A5.8	3490	2243
C35A5.9	1126	921
C35B1.1	1633	435
C35B1.2A	1715	120
C35B1.2C	1462	120
C35B1.3	213	14
C35B1.4.2	400	156
C35B1.8	453	257
C35B8.1	917	111
C35B8.2A.1	3517	2075
C35B8.2A.2	3611	2169
C35B8.2B	3607	2165
C35B8.3A.1	2247	997
C35B8.3A.2	2557	1307
C35B8.3B	2288	1038
C35B8.4	711	289
C35C5.10A.1	1108	250
C35C5.10A.2	1207	349
C35C5.10B	1166	308
C35C5.11	2369	1285
C35C5.15	258	108
C35C5.17	248	20

C35C5.19	149	33
C35C5.1	9241	2668
C35C5.20	295	172
C35C5.2	2464	1530
C35C5.3A	1029	73
C35C5.3B	1038	82
C35C5.4	1104	37
C35C5.5	1732	608
C35C5.6	3968	611
C35C5.8A	1391	751
C35C5.8B	732	393
C35C5.9.1	321	38
C35C5.9.2	396	114
C35D10.10	968	296
C35D10.11	436	274
C35D10.1.1	899	48
C35D10.12	1098	850
C35D10.1.2	944	93
C35D10.13	622	59
C35D10.14	1310	452
C35D10.15	1224	149
C35D10.16	810	88
C35D10.17	360	37
C35D10.2	1171	65
C35D10.3	622	6
C35D10.4	2367	1083
C35D10.5	885	73
C35D10.6	871	125
C35D10.7A	1730	1237
C35D10.7B	1693	1200
C35D10.8	540	204
C35D10.9A	1873	985
C35D10.9B	1939	1051
C35D6.10	903	502
C35D6.1	1011	246
C35D6.2	1011	246
C35D6.3	204	7
C35D6.9A	915	644
C35D6.9B	336	65
C35E7.11	758	124
C35E7.1A	2473	1195
C35E7.1B	2305	1195
C35E7.2A	2398	1928
C35E7.2B	1778	1308

C35E7.4	2142	624
C35E7.5A	4021	1762
C35E7.5B	3234	1762
C35E7.6	1203	445
C35E7.9	1062	179
C36A4.1	1625	370
C36A4.2	1509	731
C36A4.4	1693	186
C36A4.5	2625	182
C36A4.8A	1972	1172
C36A4.9A.1	2327	758
C36A4.9A.2	2378	809
C36A4.9B	2334	765
C36B1.10	1270	115
C36B1.11	1322	629
C36B1.12A.1	2288	742
C36B1.12A.2	2211	742
C36B1.12B	2253	742
C36B1.12C.1	2318	742
C36B1.12C.2	2179	742
C36B1.13	1038	794
C36B1.14	464	123
C36B1.1A	3716	3208
C36B1.1B	2636	2128
C36B1.1C	2252	1744
C36B1.1D	3827	2003
C36B1.3	955	210
C36B1.4.1	887	252
C36B1.4.2	934	299
C36B1.5	1616	931
C36B1.6A	672	310
C36B1.6B	540	178
C36B1.7	837	482
C36B1.8A	3767	2011
C36B1.8B	3776	2011
C36B1.8C	3712	1947
C36B1.9	2025	497
C36B7.1	1353	399
C36B7.2	1376	1072
C36B7.3	314	72
C36B7.4	660	256
C36B7.5A	3478	2920
C36B7.5B	3559	3195
C36B7.6	2106	419

C36B7.7	583	103
C36C5.10	993	170
C36C5.11	993	802
C36C5.12	680	145
C36C5.14	606	56
C36C5.15	612	84
C36C5.2	993	432
C36C5.3	888	275
C36C5.4A	480	387
C36C5.4B	606	513
C36C5.5	677	97
C36C5.6	721	578
C36C5.7	996	416
C36C5.8	732	339
C36C5.9	537	72
C36C9.1	2678	1875
C36C9.2	2253	1825
C36C9.3	1525	961
C36C9.4	2016	784
C36C9.5	1455	1078
C36C9.6	390	5
C36E6.1A	588	102
C36E6.1B	2235	157
C36E6.2	1146	119
C36E6.3	1194	460
C36E6.8.1	422	173
C36E6.8.2	483	234
C36E8.10	189	34
C36E8.1.1	2501	2005
C36E8.1.2	2530	2034
C36E8.2	983	623
C36E8.3	1877	64
C36E8.4	1677	754
C36E8.5.1	1655	1137
C36E8.5.2	1511	1137
C36E8.5.3	1671	1153
C36E8.6	276	67
C36F7.1	1848	54
C36F7.12	144	45
C36F7.13	174	76
C36F7.15	143	19
C36F7.16	273	139
C36F7.18	217	73
C36F7.2.1	974	628

C36F7.2.2	1039	28
C36F7.23	219	23
C36F7.4A	1095	540
C36F7.4B	1238	656
C36F7.4C	1400	818
C36F7.4D	646	91
C36F7.4E	1541	818
C36F7.4F	1388	665
C36F7.4G	1373	818
C36F7.5	1013	680
C36F7.8	223	67
C36H8.1	1312	108
C36H8.2	1386	733
C36H8.3	736	187
C37A2.2	3907	151
C37A2.3	1425	455
C37A2.4A	2114	1097
C37A2.4B	2090	1073
C37A2.5A	3134	1954
C37A2.5B	3188	2008
C37A2.5C	2472	1292
C37A2.5D	2025	845
C37A2.6	735	596
C37A2.7	428	177
C37A2.8A	1699	563
C37A2.8B	609	81
C37A5.1.1	1548	1091
C37A5.11	213	37
C37A5.1.2	1602	1145
C37A5.2	650	90
C37A5.3.1	310	85
C37A5.3.2	371	85
C37A5.7.1	1460	1086
C37A5.7.2	1543	1169
C37A5.9	1974	894
C37C3.11	624	84
C37C3.12	631	50
C37C3.13.1	588	97
C37C3.13.2	619	123
C37C3.15	710	45
C37C3.17	489	249
C37C3.1A	1602	778
C37C3.1B	1504	680
C37C3.2A.1	1862	1430

C37C3.2A.2	1741	1309
C37C3.2A.3	1872	1440
C37C3.2A.4	1868	1436
C37C3.2A.5	1874	1430
C37C3.2A.6	1782	1350
C37C3.2B.1	1760	1328
C37C3.2B.2	1639	1207
C37C3.2B.3	1770	1338
C37C3.2B.4	1766	1334
C37C3.2B.5	1680	1248
C37C3.2C.1	1654	1284
C37C3.2C.2	1533	1163
C37C3.2C.3	1664	1294
C37C3.2C.4	1660	1290
C37C3.2C.5	1574	1204
C37C3.3	654	488
C37C3.4	1122	181
C37C3.6A.1	5017	65
C37C3.6A.2	5075	123
C37C3.6B.1	6671	65
C37C3.6B.2	6729	123
C37C3.6C.1	4804	65
C37C3.6C.2	4862	123
C37C3.7	1218	174
C37C3.8A.1	1445	559
C37C3.8A.2	1248	362
C37C3.8A.3	1275	389
C37C3.8B	1576	690
C37C3.9	1321	873
C37E2.1.1	1742	385
C37E2.1.2	1799	442
C37E2.3	888	456
C37E2.4	836	148
C37E2.5	1297	581
C37E2.8	177	39
C37E2.9	221	57
C37F5.1A	1788	703
C37F5.1B.1	1611	526
C37F5.1B.2	1720	635
C37H5.10	379	128
C37H5.1	1413	200
C37H5.13A	1609	239
C37H5.13B	828	158
C37H5.13C	576	8

C37H5.14	1303	273
C37H5.2	1283	912
C37H5.3A	1420	261
C37H5.3B	1169	883
C37H5.4	477	38
C37H5.5	2428	928
C37H5.6A	2004	1323
C37H5.6B	1831	1150
C37H5.8	2446	592
C37H5.9A	1654	673
C37H5.9B	1741	673
C37H5.9C.1	1714	646
C37H5.9C.2	1754	686
C38C10.1	1228	736
C38C10.2	1789	1117
C38C10.3	952	41
C38C10.4	1740	1331
C38C10.5A	4445	2987
C38C10.5B	4463	3005
C38C10.5C	4724	3266
C38C10.6	321	115
C38C3.1	999	754
C38C3.2	1032	751
C38C3.3A	796	638
C38C3.3B	978	820
C38C3.4A	1865	233
C38C3.4B	762	283
C38C3.5A.1	1247	432
C38C3.5A.2	1547	732
C38C3.5B.1	902	484
C38C3.5B.2	1202	784
C38C3.5C.1	723	306
C38C3.5C.2	1023	606
C38C3.6	408	188
C38C3.7	1929	912
C38C3.8	567	186
C38C3.9	1281	891
C38C5.1B	747	359
C38C5.2	199	44
C38C5.3	150	28
C38C6.2A	2234	1130
C38C6.2B	2091	987
C38C6.2C.1	1243	703
C38C6.2C.2	1023	483

C38C6.3	1079	860
C38C6.4	1080	627
C38C6.5	1467	314
C38C6.6	1941	88
C38D4.3	5465	529
C38D4.4	1834	178
C38D4.5	2921	2373
C38D4.6A	1317	542
C38D4.6B	1108	536
C38D4.6C.1	1004	432
C38D4.6C.2	1084	512
C38D4.6C.3	1054	482
C38D4.6C.4	1098	526
C38D4.7	943	203
C38D4.8	573	317
C38D4.9	709	80
C38D9.13	381	226
C38D9.2.1	1660	1560
C38D9.2.2	1548	1448
C38D9.6	1671	1
C38D9.8	1035	469
C38D9.9	1078	79
C38H2.1A	2920	2579
C38H2.1B	2236	1895
C38H2.2	1678	55
C38H2.3	705	23
C39B10.10	150	66
C39B10.1	1916	609
C39B10.2A	1383	1190
C39B10.2B	1856	789
C39B10.5	318	150
C39B10.6A	334	90
C39B10.6B	476	163
C39B10.7	372	170
C39B5.11	975	139
C39B5.12	1023	667
C39B5.14.1	1079	835
C39B5.14.2	1077	833
C39B5.2A	1211	937
C39B5.2B	1303	1029
C39B5.5	663	84
C39B5.6	1654	406
C39B5.7	966	717
C39B5.9	930	175

C39D10.11	1670	1058
C39D10.2	475	184
C39D10.3A	1266	1031
C39D10.3B	741	506
C39D10.5	814	73
C39D10.6	760	57
C39D10.7.1	3585	1623
C39D10.7.2	3576	1623
C39D10.8A	976	175
C39D10.8B	741	157
C39D10.8C	966	175
C39E6.10	139	50
C39E6.1.1	1913	734
C39E6.11	199	43
C39E6.1.2	1916	734
C39E6.2	483	243
C39E6.4	1295	377
C39E6.6	1495	247
C39E6.9	138	57
C39E9.10	1603	1330
C39E9.11	1419	585
C39E9.12	1346	111
C39E9.13	1135	858
C39E9.14A.1	1468	633
C39E9.14A.2	1548	713
C39E9.14B.1	1462	632
C39E9.14B.2	1542	712
C39E9.18A	150	10
C39E9.19	225	56
C39E9.2	693	470
C39E9.3	964	838
C39E9.4	749	454
C39E9.5	679	136
C39E9.6	633	488
C39E9.7	1635	37
C39E9.8A	993	536
C39E9.8B	990	536
C39E9.8C	946	536
C39E9.8D.1	993	536
C39E9.8D.2	882	425
C39E9.8E.1	990	536
C39E9.8E.2	879	425
C39E9.8F	393	92
C39E9.8G	369	94

C39E9.9	896	102
C39F7.1	900	81
C39F7.2A	2458	324
C39F7.2B	2416	324
C39F7.4	1105	487
C39F7.5	2111	648
C39H7.4	1321	82
C39H7.5	993	403
C39H7.6	978	654
C39H7.9A	1068	543
C39H7.9B	703	140
C40A11.10.1	382	296
C40A11.10.2	398	236
C40A11.1	991	346
C40A11.2.1	713	428
C40A11.2.2	675	428
C40A11.3	779	546
C40A11.4	741	49
C40A11.5	858	89
C40A11.6	826	312
C40A11.8	739	314
C40C9.1	1095	713
C40C9.2	1909	1555
C40C9.3	628	378
C40C9.4	315	100
C40C9.5A	2699	530
C40C9.5B	2680	530
C40C9.5C	2818	517
C40C9.5D	2594	530
C40C9.5E	2824	517
C40C9.7	338	220
C40D2.2	1388	97
C40D2.3	1326	360
C40D2.4	610	72
C40H1.10	150	36
C40H1.11	143	58
C40H1.1	2122	755
C40H1.2	627	83
C40H1.3	1515	87
C40H1.4	884	34
C40H1.5	476	291
C40H1.6.1	571	109
C40H1.6.2	752	288
C40H1.7	1197	311

C40H1.8.1	1179	126
C40H1.8.2	1167	126
C40H1.9	1050	50
C40H5.10	133	23
C40H5.2A	465	355
C40H5.2B	348	238
C40H5.4	2475	1182
C40H5.5A	1441	627
C40H5.5B	1370	556
C40H5.7	322	6
C41A3.1	23296	37
C41A3.2A	2578	1313
C41A3.2B	1665	1313
C41A3.3	275	51
C41A3.4	278	140
C41A3.5	222	50
C41A3.6	148	23
C41A3.7	225	71
C41A3.8	242	51
C41A3.9	242	33
C41C4.10	1135	544
C41C4.16	287	66
C41C4.2	1110	194
C41C4.3	1938	310
C41C4.4A	3308	1042
C41C4.4B	2492	226
C41C4.5A.1	2972	2488
C41C4.5A.2	3136	2488
C41C4.5B.1	3213	2729
C41C4.5B.2	3377	2729
C41C4.5C.1	3115	2631
C41C4.5C.2	3279	2631
C41C4.5D.1	3159	2675
C41C4.5D.2	3323	2675
C41C4.5E.1	3240	2756
C41C4.5E.2	3404	2756
C41C4.5G	354	67
C41C4.5H	2874	2624
C41C4.6	2870	330
C41C4.7A	1346	1060
C41C4.7B	1372	103
C41C4.8.1	2576	66
C41C4.8.2	2650	140
C41C4.9	352	84

C41D11.10	539	80
C41D11.1A	1253	662
C41D11.1B	1617	912
C41D11.1C.1	1789	662
C41D11.1C.2	1232	662
C41D11.1D	1266	913
C41D11.1E	1439	1165
C41D11.1F.1	1409	427
C41D11.1F.2	1014	203
C41D11.2	1446	810
C41D11.3A	1467	97
C41D11.3B	2116	97
C41D11.4	1100	932
C41D11.5	883	547
C41D11.6	2827	2277
C41D11.7	2186	946
C41D11.8	1014	98
C41D11.9	741	43
C41D7.2	2953	915
C41G11.15	223	107
C41G11.1A	1443	514
C41G11.1B	1315	386
C41G11.20	143	50
C41G11.3	2670	1172
C41G11.4A	1804	114
C41G11.4B	1837	114
C41G11.4C	1907	114
C41G6.10	1396	1184
C41G6.11	969	784
C41G6.14	1013	162
C41G6.15	1107	568
C41G6.16	1104	876
C41G6.2	1041	811
C41G6.3	1131	529
C41G6.5	1170	52
C41G6.6	1095	289
C41G6.7	1173	508
C41G6.8A	804	528
C41G6.8B	945	578
C41G6.9	894	443
C41G7.2	2079	169
C41G7.3	1438	345
C41G7.4	1653	1285
C41G7.5A	1841	52

C41G7.5B	1803	14
C41G7.6	796	118
C41G7.7	471	250
C41G7.8	474	332
C41G7.9A.1	692	390
C41G7.9A.2	712	410
C41G7.9B	771	469
C41H7.1	753	301
C41H7.3	1242	776
C41H7.4	1083	473
C41H7.5A	1057	213
C41H7.5B	417	151
C41H7.6	1153	253
C41H7.7	1284	399
C41H7.9	153	65
C42C1.10A.1	1081	407
C42C1.10A.2	1180	407
C42C1.10B	1292	315
C42C1.10C	983	6
C42C1.10D	1992	1015
C42C1.1	1139	288
C42C1.11A	2112	1679
C42C1.11B	632	10
C42C1.11C.1	2113	1676
C42C1.11C.2	2114	1677
C42C1.12.1	436	200
C42C1.12.2	657	421
C42C1.13A.1	632	43
C42C1.13A.2	647	58
C42C1.13B	676	87
C42C1.14.1	412	97
C42C1.14.2	631	316
C42C1.15	1075	657
C42C1.2	1763	1508
C42C1.3A	615	483
C42C1.3B	621	489
C42C1.4A	3997	3442
C42C1.4B	554	187
C42C1.5	1437	763
C42C1.7A	2232	874
C42C1.7B.2	535	46
C42C1.8	2095	718
C42C1.9A	759	201
C42C1.9B.2	426	104

C42D4.11	951	125
C42D4.13A	722	330
C42D4.13B	722	330
C42D4.17	145	35
C42D4.1	956	119
C42D4.19	588	280
C42D4.2	1970	651
C42D4.3	874	124
C42D4.4	1035	876
C42D4.5	1038	563
C42D4.6	637	222
C42D4.8	4359	465
C42D4.9	1053	622
C42D8.11	221	147
C42D8.1	811	385
C42D8.19	147	74
C42D8.2A	4948	861
C42D8.2B	4783	861
C42D8.3	2497	326
C42D8.4A	633	516
C42D8.4B	747	630
C42D8.5A	3282	2014
C42D8.5B	1560	546
C42D8.8A	2729	652
C42D8.8B	2723	652
C42D8.9	731	591
C43C3.1	2582	1882
C43C3.2A	1877	1332
C43C3.2B	1811	1266
C43C3.2C	1800	1255
C43C3.2D	1893	1348
C43C3.2E	1811	1266
C43C3.2F	1904	1359
C43C3.2G	1772	1227
C43C3.3	1767	294
C43C3.8	141	29
C43D7.2	942	58
C43D7.5	459	280
C43D7.7	300	49
C43E11.10	1755	282
C43E11.11.1	2074	1569
C43E11.11.2	2085	1580
C43E11.1	2151	632
C43E11.12A.1	609	259

C43E11.12A.2	628	259
C43E11.12B.1	583	233
C43E11.12B.2	602	233
C43E11.2A	1350	533
C43E11.2B	720	294
C43E11.3A	5268	934
C43E11.3B	5130	796
C43E11.4	1450	197
C43E11.6A.1	2572	95
C43E11.6A.2	2518	95
C43E11.6B.1	2085	88
C43E11.6B.2	2031	88
C43E11.6C	392	88
C43E11.6D.1	2475	187
C43E11.6D.2	2421	187
C43E11.6E.1	2167	1259
C43E11.6E.2	2113	1259
C43E11.7	974	627
C43E11.8	2012	1220
C43E11.9	945	347
C43F9.10	2195	196
C43F9.11A	600	309
C43F9.11B	404	22
C43F9.16	148	27
C43F9.17	148	39
C43F9.4	1086	818
C43F9.5	779	140
C43F9.6	1151	292
C43F9.7	225	16
C43F9.8	955	560
C43F9.9	2091	1678
C43G2.1A	1820	1250
C43G2.1B	1721	1151
C43G2.26	158	73
C43G2.2A	2224	149
C43G2.2B	2185	2035
C43G2.3A	759	258
C43G2.3B	383	150
C43G2.4.1	1481	762
C43G2.4.2	1431	712
C43G2.5A	1008	736
C43G2.5B	858	586
C43H6.10	149	29
C43H6.1	1396	418

C43H6.3	748	114
C43H6.4	2183	1379
C43H6.6	1718	565
C43H6.7	1221	387
C43H6.8	270	59
C43H6.9	2264	535
C43H8.1	596	133
C43H8.2	1260	607
C44B11.1	612	448
C44B11.3	1599	269
C44B11.4	380	185
C44B11.8	714	318
C44B11.9	459	250
C44B12.1	718	534
C44B12.2A	1141	598
C44B12.2B.1	949	410
C44B12.2B.2	1098	559
C44B12.2B.3	1023	484
C44B12.4	960	813
C44B12.5	1143	636
C44B12.6A	497	255
C44B12.6B	424	182
C44B12.9	297	19
C44B7.10.1	1566	504
C44B7.10.2	1584	522
C44B7.11	2847	1099
C44B7.12	1601	576
C44B7.16	256	59
C44B7.1	698	29
C44B7.17	143	26
C44B7.21	196	57
C44B7.2A.1	2007	861
C44B7.2A.2	1921	861
C44B7.2A.3	2063	917
C44B7.2B.1	1065	801
C44B7.2B.2	1121	857
C44B7.3	1977	464
C44B7.4	1142	644
C44B7.5	801	595
C44B7.6A.1	1548	1205
C44B7.6A.2	1580	1237
C44B7.6B	1379	1036
C44B7.7	743	208
C44B7.8	2089	348

C44B7.9	2112	925
C44B9.1	3176	2303
C44B9.2	1161	108
C44B9.3	1145	713
C44B9.4	3577	613
C44B9.5	1672	1005
C44C10.11.1	1442	285
C44C10.11.2	1497	285
C44C10.12	498	251
C44C10.15	453	336
C44C10.1	970	321
C44C10.3	1425	149
C44C10.4	1772	1136
C44C10.5	918	540
C44C10.6	390	206
C44C10.7	1026	333
C44C10.8	837	397
C44C10.9A	799	161
C44C10.9B	1067	165
C44C10.9C	450	34
C44C10.9D	947	45
C44C10.9E	330	191
C44C11.1A	1252	400
C44C11.1B	507	91
C44C11.6	168	7
C44C11.8	1739	37
C44C1.1	932	480
C44C1.2	1244	176
C44C1.3	672	409
C44C1.4A	1810	301
C44C1.4B	635	339
C44C1.5A.1	1348	863
C44C1.5A.2	1785	1300
C44C1.5B.1	759	225
C44C1.5B.2	1196	662
C44C1.6	539	177
C44C3.11	1098	874
C44C3.1	1113	881
C44C3.2	1137	5
C44C3.3	1110	654
C44C3.5	1137	593
C44C3.6	1119	987
C44C3.7	1131	32
C44C3.9	1056	171

C44C8.6.1	1537	163
C44C8.6.2	1591	217
C44E12.1	1132	65
C44E12.3A	2047	949
C44E12.3B	2155	1057
C44E12.3C	2260	1120
C44E12.3D	2218	1120
C44E12.3E	2680	1120
C44E12.3F	2197	1057
C44E12.4	205	75
C44E12.5	143	28
C44E12.8	144	35
C44E4.1A	12765	2582
C44E4.1B	2671	1973
C44E4.1C	8256	6105
C44E4.3	1367	169
C44E4.4	1426	92
C44E4.5	1740	1148
C44E4.6.1	433	44
C44E4.6.2	415	54
C44F1.1	2241	182
C44F1.2	1211	385
C44F1.3	1026	623
C44F1.5	4064	671
C44H4.10	223	49
C44H4.11	208	78
C44H4.1	1982	1116
C44H4.2	2487	1479
C44H4.3	2396	1860
C44H4.4	3227	1497
C44H4.5	1224	886
C44H4.6	1174	552
C44H4.7A	2979	338
C44H4.7B	2934	338
C44H4.8	711	67
C44H4.9	146	26
C44H9.1	1712	1186
C44H9.4	3478	129
C44H9.5	1727	1129
C44H9.6.1	1893	174
C44H9.6.2	2108	389
C44H9.6.3	1949	230
C44H9.7A	978	227
C44H9.7B	1189	227

C45B11.1A	1879	1018
C45B11.1B	1873	1012
C45B11.3.1	950	138
C45B11.3.2	1012	200
C45B11.4	1005	320
C45B11.5	342	117
C45B11.6	1522	1032
C45B11.8	381	108
C45B2.12	266	111
C45B2.1	393	61
C45B2.14	199	7
C45B2.17	176	62
C45B2.19	321	145
C45B2.2	401	95
C45B2.3	324	95
C45B2.4A.1	1949	627
C45B2.4A.2	1926	604
C45B2.4B.1	1837	627
C45B2.4B.2	1814	604
C45B2.5	1362	559
C45B2.6.1	2462	1493
C45B2.6.2	2458	1493
C45B2.7	3122	917
C45B2.8	326	82
C45B2.9	192	51
C45E1.1A	1135	94
C45E1.1B	1060	485
C45E1.4	911	340
C45E5.1	1214	764
C45E5.2	1277	360
C45E5.4	738	42
C45E5.53	130	46
C45E5.54	920	535
C45E5.6A.1	1957	256
C45E5.6A.2	2164	463
C45E5.6B	2148	417
C45E5.6C.1	1734	70
C45E5.6C.2	1946	255
C45E5.6C.3	1944	1262
C45E5.6C.4	2082	1400
C45E5.6C.5	2147	417
C45E5.6C.6	1986	255
C45E5.6D.1	2148	417
C45E5.6D.2	1986	255

C45G3.1	3745	1682
C45G3.3	1026	431
C45G3.4	540	1
C45G3.5	2010	17
C45G7.13	1668	1341
C45G7.1	431	189
C45G7.2	489	211
C45G7.3	476	74
C45G7.4	1882	557
C45G7.5	5385	4643
C45G9.10A	2957	1756
C45G9.10B	2452	1251
C45G9.11	1065	719
C45G9.12	282	18
C45G9.13	582	204
C45G9.15	1234	1053
C45G9.1	873	706
C45G9.2	1052	561
C45G9.4	922	210
C45G9.5	1219	304
C45G9.6A	2025	1721
C45G9.6B	828	301
C45G9.7	494	215
C45G9.8	292	62
C45G9.9	923	218
C45H4.10	915	291
C45H4.12	1026	483
C45H4.13	1256	371
C45H4.14A	669	43
C45H4.14B	556	16
C45H4.15	1086	288
C45H4.16	906	559
C45H4.17	1488	1327
C45H4.1	840	260
C45H4.18	945	628
C45H4.2	1488	1035
C45H4.3	840	269
C45H4.6	712	27
C45H4.8	888	467
C45H4.9	882	251
C46A5.1	1633	1442
C46A5.2	1894	2
C46A5.3A	1073	287
C46A5.3B	1016	230

C46A5.4	4693	2146
C46A5.5A	1008	674
C46A5.5B	1197	674
C46A5.6	1081	336
C46A5.9	2787	1826
C46C11.1A	3155	2577
C46C11.1B	3154	2576
C46C11.2A	1392	270
C46C11.2B	1534	417
C46C11.3	969	519
C46C11.4	1271	833
C46C2.11	298	50
C46C2.12	298	154
C46C2.1A	6484	927
C46C2.1B	6001	927
C46C2.1C	6010	453
C46C2.1D	6490	933
C46C2.1E	6007	933
C46C2.1F	6016	459
C46C2.1G	6493	927
C46C2.1H	6010	927
C46C2.1I	6019	453
C46C2.1J	6499	933
C46C2.1K	6016	933
C46C2.1L	6025	459
C46C2.1M	6481	927
C46C2.2.1	1815	1316
C46C2.2.2	1906	54
C46C2.3	1285	993
C46C2.5	715	351
C46C2.6A	771	423
C46C2.6B	237	72
C46C2.6C	590	242
C46C2.7	461	103
C46E10.10	1044	315
C46E10.1	939	536
C46E10.2	372	162
C46E10.3	1179	652
C46E10.4	1509	971
C46E10.5	1368	54
C46E10.7	1044	912
C46E10.8	1102	326
C46E10.9	1671	46
C46E1.2	2336	761

C46E1.3	2292	269
C46F11.10	2198	917
C46F11.11	1623	267
C46F11.1A	2165	408
C46F11.1B	2153	396
C46F11.2A	1770	646
C46F11.2B.1	1665	541
C46F11.2B.2	1813	689
C46F11.2B.3	1678	554
C46F11.3	1098	662
C46F11.4	2731	1053
C46F11.5A	1783	1422
C46F11.5B	1707	1422
C46F11.6	848	401
C46F11.9	290	75
C46F2.1	1114	317
C46F4.1A.1	1353	124
C46F4.1A.2	1351	124
C46F4.1B.1	1359	130
C46F4.1B.2	1318	91
C46F4.2.1	2560	512
C46F4.2.2	2708	660
C46F4.3	459	47
C46F9.1A	1152	554
C46F9.1B	1215	617
C46G7.111	176	42
C46G7.1	416	15
C46G7.2	1450	590
C46G7.4A	3771	1604
C46G7.4B	2312	145
C46G7.4C	3051	1211
C46G7.4D	2255	145
C46G7.4E	2048	145
C46G7.4F	1985	145
C46G7.4G	3516	1349
C46G7.4H	3459	1349
C46G7.4I	3252	1349
C46G7.4J	3189	1349
C46G7.4K	3378	1211
C46G7.4L	3321	1211
C46G7.4M	3114	1211
C46G7.4N	3306	1466
C46G7.4O	3714	1604
C46G7.4P	3507	1604

C46G7.4Q	3444	1604
C46G7.4R	3633	1466
C46G7.4S	3576	1466
C46G7.4T	3369	1466
C46G7.5	404	79
C46H11.10A	1212	27
C46H11.10B.3	1141	163
C46H11.11	4411	2288
C46H11.12	144	57
C46H11.13	312	26
C46H11.2	1358	763
C46H11.3	441	139
C46H11.4A	1877	987
C46H11.4B	1722	832
C46H11.4C	1834	318
C46H11.4D	1742	226
C46H11.4E	1817	301
C46H11.4F	1769	253
C46H11.6	1029	679
C46H11.7	847	206
C46H11.8	979	78
C46H11.9	860	170
C46H3.1	810	155
C46H3.2A	2351	653
C46H3.2B.1	2197	499
C46H3.2B.2	2180	482
C46H3.3	801	631
C47A10.10	978	253
C47A10.11	987	276
C47A10.12	576	134
C47A10.1	3986	2420
C47A10.4	1098	786
C47A10.5A	1020	607
C47A10.5B	885	594
C47A10.6	1041	417
C47A10.7	666	256
C47A10.8	882	170
C47A10.9	978	238
C47A4.2A	1509	190
C47A4.2B	1512	193
C47A4.2C	1458	139
C47A4.3	951	716
C47A4.5	259	68
C47B2.1	1074	776

C47B2.2.1	1110	120
C47B2.2.2	1117	127
C47B2.3.1	1490	1133
C47B2.3.2	1996	1639
C47B2.3.3	1752	1395
C47B2.4	1009	508
C47B2.5.1	971	354
C47B2.5.2	996	379
C47B2.6A	1347	839
C47B2.6B	1352	844
C47B2.7A	1412	428
C47B2.7B	1535	262
C47B2.8	646	259
C47B2.9	578	205
C47C12.3A.1	1454	45
C47C12.3A.2	1515	63
C47C12.3B	1485	76
C47C12.6.1	2489	1983
C47C12.6.2	2478	1973
C47C12.6.3	2577	1973
C47C12.9	393	268
C47D12.1A	12481	5431
C47D12.1B	12475	5429
C47D12.1C	12445	5411
C47D12.2	2446	1259
C47D12.3A	1085	544
C47D12.3B	800	259
C47D12.5	950	264
C47D12.6A	2428	1986
C47D12.6B.1	2278	1836
C47D12.6B.2	2379	1937
C47D12.6B.3	2293	1851
C47D12.7A	1916	195
C47D12.7B	401	22
C47D12.8	2887	1595
C47D12.9	200	51
C47D2.1	495	59
C47D2.2	900	469
C47E12.10	891	632
C47E12.1.1	1651	179
C47E12.1.2	1553	179
C47E12.12	476	351
C47E12.17	160	34
C47E12.18	166	29

C47E12.2.1	1141	818
C47E12.2.2	1214	891
C47E12.3	1932	746
C47E12.4A	1269	645
C47E12.4B	1539	275
C47E12.4C.1	1536	275
C47E12.4C.2	1556	295
C47E12.4C.3	1602	341
C47E12.4D.1	1177	553
C47E12.4D.2	1602	341
C47E12.4D.3	1344	118
C47E12.5A.1	3626	564
C47E12.5A.2	3715	653
C47E12.5B.1	3409	347
C47E12.5B.2	3586	524
C47E12.5B.3	3626	564
C47E12.5B.4	3715	653
C47E12.5C	3623	561
C47E12.6A	2559	1628
C47E12.6B	2415	1484
C47E12.7	1323	943
C47E12.8	1624	29
C47E12.9	639	155
C47E8.11	237	54
C47E8.12	305	38
C47E8.1	561	9
C47E8.2	993	662
C47E8.3	1339	116
C47E8.4A.1	1087	417
C47E8.4A.2	1090	417
C47E8.4B	615	13
C47E8.4C	366	11
C47E8.5.1	2231	826
C47E8.5.2	2357	952
C47E8.5.3	2506	1101
C47E8.5.4	2339	934
C47E8.6	1233	1002
C47E8.7.1	2488	407
C47E8.7.2	2767	686
C47E8.8A	4808	1130
C47E8.8B	4124	446
C47E8.8C	4133	446
C47E8.8D	4694	1130
C47E8.9A	642	341

C47E8.9B	1392	1091
C47F8.1	988	91
C47F8.2	1089	455
C47F8.3	1038	866
C47F8.5	1107	463
C47F8.6	1074	767
C47F8.7	497	227
C47F8.8	1058	700
C47G2.1	1434	300
C47G2.12	147	44
C47G2.15	147	40
C47G2.18	134	64
C47G2.2	1295	313
C47G2.4	2165	687
C47G2.5A	2982	1120
C47G2.5B	2805	1120
C47G2.5C	2988	1126
C48A7.14	350	117
C48A7.15	287	118
C48A7.1A	6298	4835
C48A7.1B	6514	4835
C48A7.1C	1267	87
C48A7.2A.1	2151	901
C48A7.2A.2	1992	742
C48A7.2B	2123	523
C48A7.2C	1766	1504
C48A7.9	275	168
C48B4.10	711	162
C48B4.11	1069	412
C48B4.1	2089	404
C48B4.12A	656	2
C48B4.12B	665	2
C48B4.13	542	110
C48B4.2	1308	19
C48B4.4A	5542	1462
C48B4.4B	5548	1462
C48B4.4C	5587	3554
C48B4.4D	5749	1663
C48B4.6	648	104
C48B4.7	609	157
C48B4.8A	831	259
C48B4.8B	815	243
C48B4.9	771	95
C48B6.10	369	60

C48B6.11	141	37
C48B6.2	645	236
C48B6.3	1263	396
C48B6.4	1872	706
C48B6.6A	7574	1823
C48B6.6B	6665	1823
C48B6.8	2235	743
C48B6.9	930	571
C48C5.1	1412	1067
C48C5.3	1113	786
C48C5.5	342	136
C48D1.10	141	7
C48D1.1B	1912	139
C48D1.2A	2467	557
C48D1.2B	864	142
C48D1.3	1968	979
C48D1.9A	799	453
C48D1.9B	561	293
C48D1.9C	694	426
C48D5.1A	2356	336
C48D5.1B.1	2207	187
C48D5.1B.2	2240	220
C48D5.2A	3546	859
C48D5.2B	2369	1797
C48D5.2C	2202	1630
C48D5.3	587	183
C48D5.9	169	71
C48E7.1	795	67
C48E7.2.1	1742	218
C48E7.2.2	1844	218
C48E7.3	1055	775
C48E7.5	1482	427
C48E7.6	6078	3494
C48E7.8	2554	1197
C48E7.9	1180	582
C48G7.3A.1	6171	825
C48G7.3A.2	6172	825
C48G7.3B.1	3770	1222
C48G7.3B.2	3771	1222
C48G7.3C.1	3472	924
C48G7.3C.2	3473	924
C48G7.3D.1	3211	663
C48G7.3D.2	3212	663
C48G7.3E.1	2224	1589

C48G7.3E.2	2225	1589
C48G7.3F.1	5680	334
C48G7.3F.2	5681	334
C48G7.3G.1	5365	19
C48G7.3G.2	5366	19
C48G7.3H.1	2431	1796
C48G7.3H.2	2432	1796
C48G7.3I.1	4615	573
C48G7.3I.2	4616	573
C48G7.3J.1	3344	796
C48G7.3J.2	3345	796
C48G7.3K.1	3505	957
C48G7.3K.2	3506	957
C48G7.3L.1	3369	821
C48G7.3L.2	3370	821
C49A1.10	807	433
C49A1.1	923	543
C49A1.2	1232	1093
C49A1.3	1358	611
C49A1.4A	1764	268
C49A1.4B	1692	196
C49A1.5	1550	1205
C49A1.6	855	642
C49A1.9	909	338
C49A9.10	624	209
C49A9.1	1211	659
C49A9.2	1895	638
C49A9.3	1922	368
C49A9.39	218	55
C49A9.4.1	1943	1257
C49A9.4.2	1606	1257
C49A9.5	1588	409
C49A9.7	1176	995
C49A9.8.1	1631	1127
C49A9.8.2	1699	1195
C49A9.9A.1	1511	414
C49A9.9A.2	1704	414
C49A9.9B	1416	351
C49C3.10A	1304	434
C49C3.10B	1160	290
C49C3.11	798	459
C49C3.1	2745	597
C49C3.12	762	224
C49C3.13	1598	810

C49C3.15	849	585
C49C3.20	244	52
C49C3.4A	4734	1704
C49C3.4B	3145	115
C49C3.5	831	409
C49C3.6	814	632
C49C3.7	977	801
C49C3.8A	1005	346
C49C3.8B	801	142
C49C3.9	1608	1018
C49C8.1	1577	471
C49C8.2	519	100
C49C8.4	1537	1016
C49C8.5.1	1387	1171
C49C8.5.2	1400	1184
C49C8.8	603	96
C49D10.10	1949	1574
C49D10.11.1	466	152
C49D10.11.2	459	142
C49D10.2	1175	796
C49D10.3	975	215
C49D10.4	2013	1173
C49D10.7	432	46
C49D10.8	1989	925
C49F5.1.1	2014	299
C49F5.1.2	1421	299
C49F5.1.3	1827	299
C49F5.2	2404	1043
C49F5.3	777	349
C49F5.5	578	48
C49F5.6	2692	2318
C49F5.7	389	43
C49F5.8	932	191
C49F8.1	1335	617
C49F8.2	2905	330
C49F8.3	701	6
C49F8.5	212	43
C49F8.8	181	25
C49F8.9	131	20
C49G7.10	936	786
C49G7.11	571	78
C49G7.1	1836	268
C49G7.12	936	721
C49G7.2	993	255

C49G7.4.1	943	354
C49G7.4.2	938	354
C49G7.5	939	280
C49G7.7	1964	915
C49G7.8	1485	124
C49G9.1	644	440
C49G9.2	508	206
C49H3.10A	3489	896
C49H3.10B	3400	807
C49H3.10C	2419	341
C49H3.11.1	948	106
C49H3.11.2	942	100
C49H3.12A	491	172
C49H3.1	3642	359
C49H3.14	142	31
C49H3.16	631	411
C49H3.3.1	450	83
C49H3.3.2	454	86
C49H3.4	733	145
C49H3.5A	3301	938
C49H3.5B	2494	995
C49H3.5C	2474	932
C49H3.5D	3296	938
C49H3.5E	3281	932
C49H3.6A	1902	401
C49H3.6B	1734	401
C49H3.8	1236	355
C49H3.9	1764	666
C50A2.2A	2068	1037
C50A2.2B	1947	916
C50A2.2C	1758	727
C50A2.3A	976	209
C50A2.3B	877	23
C50A2.3C	457	75
C50A2.4.1	481	247
C50A2.4.2	479	245
C50A2.7	429	71
C50B6.10	1116	517
C50B6.11	1101	527
C50B6.12	990	871
C50B6.1	352	116
C50B6.14A	1290	484
C50B6.14B	1361	939
C50B6.15	141	8

C50B6.2	1927	995
C50B6.5	1136	137
C50B6.6	1104	770
C50B6.7	2199	497
C50B6.8A	1784	244
C50B6.8B.1	1480	60
C50B6.8B.2	1676	244
C50B6.9	730	152
C50B8.1	667	262
C50B8.2	1057	402
C50B8.3	1101	397
C50B8.4	598	356
C50B8.5	706	200
C50B8.6	891	438
C50B8.7	198	51
C50C10.2	1017	738
C50C10.3	1023	754
C50C10.4	1023	770
C50C10.6	1044	329
C50C10.7	1122	616
C50C3.1	1388	967
C50C3.12	760	369
C50C3.14	141	16
C50C3.19	471	347
C50C3.2	6770	2333
C50C3.5	772	157
C50C3.6	7397	1036
C50C3.7	1464	970
C50C3.8	1707	47
C50C3.9A	4045	1110
C50C3.9B	677	104
C50C3.9C	3913	1106
C50D2.10.2	548	339
C50D2.11	225	20
C50D2.1	1854	1335
C50D2.2	2005	1489
C50D2.3	543	45
C50D2.4	1096	7
C50D2.5	746	382
C50D2.6	1278	736
C50D2.7	1792	1322
C50D2.8	1065	759
C50D2.9	1236	549
C50E10.10	1056	838

C50E10.1	567	65
C50E10.2A	1376	17
C50E10.2B	1224	541
C50E10.2C	1164	481
C50E10.2D	1293	21
C50E10.3	1104	686
C50E10.4A	2593	1841
C50E10.4B	2599	1847
C50E10.4C	1938	1186
C50E10.5	1086	836
C50E10.7	1092	678
C50E10.9	1074	794
C50E3.10	627	440
C50E3.11	813	3
C50E3.12	1291	2
C50E3.13	1408	124
C50E3.1	366	222
C50E3.14	834	452
C50E3.15	664	53
C50E3.16	1403	66
C50E3.2	507	193
C50E3.5	1563	434
C50E3.6	1234	168
C50E3.7	972	664
C50F2.10	414	256
C50F2.1	1728	536
C50F2.2	3333	2585
C50F2.3	2642	764
C50F2.4.1	662	50
C50F2.4.2	751	50
C50F2.6A.1	925	580
C50F2.6A.2	1012	667
C50F2.6A.3	1420	1075
C50F2.6B	1032	687
C50F2.8	1562	84
C50F2.9	258	93
C50F4.10	1072	587
C50F4.1.1	1256	942
C50F4.11	2205	1014
C50F4.1.2	1316	1002
C50F4.12	1496	261
C50F4.14A	1252	72
C50F4.14B	1298	118
C50F4.16	1476	579

C50F4.17	144	24
C50F4.2	2394	1572
C50F4.3	1189	505
C50F4.5	530	152
C50F4.6	695	366
C50F4.8	1341	99
C50F4.9	527	25
C50F7.10	1519	1211
C50F7.1A	1414	1181
C50F7.1B	1504	913
C50F7.2	1763	1462
C50F7.3	999	796
C50F7.4	1489	748
C50F7.6A	1326	186
C50F7.6B	1069	675
C50F7.9	897	641
C50F7.T1	87	1
C50H11.10	1014	120
C50H11.1	1645	1380
C50H11.11	993	559
C50H11.12	996	459
C50H11.13	1080	517
C50H11.14	1062	528
C50H11.15	1553	1187
C50H11.17	921	371
C50H11.3	1098	337
C50H11.4	1062	87
C50H11.5	1056	675
C50H11.7	1032	442
C50H11.8	709	280
C50H2.13	649	359
C50H2.1A	3134	734
C50H2.1B	3143	734
C50H2.2A	1717	55
C50H2.2B	1615	940
C50H2.3A	2806	405
C50H2.3B	1779	1238
C50H2.4A	822	24
C50H2.4B	929	674
C50H2.5	798	12
C50H2.6	715	182
C50H2.7	596	410
C51E3.10A	446	213
C51E3.11	196	72

C51E3.1	761	54
C51E3.2	1406	474
C51E3.3	1014	250
C51E3.4	1003	461
C51E3.5	915	63
C51E3.6	1792	1119
C51E3.7A	2565	515
C51E3.7B	2277	1502
C51E3.7C.1	2564	514
C51E3.7C.2	2559	509
C51E3.9A	877	49
C51E3.9B	806	323
C51F7.1	3564	2797
C51F7.2	900	177
C52A10.1	1714	76
C52A10.2	1742	834
C52A10.3	1107	659
C52A11.2	965	377
C52A11.3	859	1
C52A11.4A	7507	5665
C52A11.4B	2553	371
C52A11.4C	6898	5056
C52A11.4D	8104	5923
C52A11.4E	7327	5485
C52A11.4F	7441	5599
C52A11.4G	7339	5485
C52A11.4H	4519	2677
C52A11.4I	3232	1390
C52A11.4J	1702	1142
C52B11.2	968	764
C52B11.3	1554	1002
C52B11.5	1049	480
C52B11.6	134	65
C52B9.10	740	567
C52B9.11	515	125
C52B9.16	200	20
C52B9.1A	1661	1206
C52B9.1B	1405	950
C52B9.2A	525	4
C52B9.2B	1488	1107
C52B9.3A	1672	546
C52B9.3B	1629	397
C52B9.4	2008	129
C52B9.5	1147	842

C52B9.6	1637	202
C52B9.7A	1706	1175
C52B9.7B	1088	834
C52B9.8	4246	2481
C52B9.9	2079	302
C52D10.1	1299	526
C52D10.11	728	112
C52D10.12.1	2761	141
C52D10.12.2	2730	110
C52D10.13	941	626
C52D10.3	854	565
C52D10.6.1	661	147
C52D10.7	657	353
C52D10.8	597	138
C52E12.1	3068	67
C52E12.2A	5303	2266
C52E12.2B	5435	2266
C52E12.3.1	1252	212
C52E12.3.2	1257	212
C52E12.4	4882	558
C52E12.6	1091	152
C52E2.1	927	31
C52E2.2	236	14
C52E2.3	729	135
C52E2.4	2256	1086
C52E2.5	1782	946
C52E2.6	1119	90
C52E2.7	920	25
C52E4.1	1117	699
C52E4.12	186	19
C52E4.17	144	33
C52E4.2A	477	204
C52E4.2B	376	103
C52E4.2C	529	256
C52E4.3.1	553	112
C52E4.3.2	800	210
C52E4.3.3	721	142
C52E4.4.1	1545	378
C52E4.4.2	1584	417
C52E4.5A	2033	1563
C52E4.5B	2162	1692
C52E4.6A.1	1625	557
C52E4.6A.2	1669	601
C52E4.6C	1494	532

C52E4.7	981	543
C52G5.10	193	42
C52G5.12	130	14
C52G5.2	768	240
C52G5.3	231	92
C53A3.1	1263	826
C53A3.2	1412	165
C53A5.10	1017	654
C53A5.11	1293	462
C53A5.1.1	585	109
C53A5.1.2	593	117
C53A5.13A	2151	1869
C53A5.13B	2006	1724
C53A5.16A	1146	864
C53A5.16B	1152	870
C53A5.17	1524	608
C53A5.18	150	32
C53A5.2	343	140
C53A5.3	1841	146
C53A5.4	1069	379
C53A5.5A	1467	970
C53A5.5B	1668	1171
C53A5.6A	1756	1003
C53A5.6B	1810	1057
C53A5.8	930	381
C53A5.9	1458	136
C53B4.1	1587	568
C53B4.4A	4623	1985
C53B4.4B	4629	1985
C53B4.4D	4446	1808
C53B4.4E	4648	1985
C53B4.5	990	506
C53B4.6	1055	689
C53B4.7A.1	1331	337
C53B4.7A.2	1469	475
C53B4.7B	1402	408
C53B4.7C.1	1297	303
C53B4.7C.2	1469	475
C53B4.7C.3	1406	412
C53B4.7D	1415	421
C53B4.7E	1500	506
C53B4.8A	2258	127
C53B4.8B	2241	127
C53B7.1	1863	30

C53B7.12	436	134
C53B7.2	681	107
C53B7.3A	907	541
C53B7.3B	983	133
C53B7.3C	1109	133
C53B7.3D.1	819	453
C53B7.3D.2	868	502
C53B7.4	522	253
C53B7.5	1113	578
C53B7.7	1458	41
C53B7.9	204	72
C53C11.1	714	308
C53C11.2	415	82
C53C11.3	3531	2729
C53C11.5	478	58
C53C7.1A	1130	955
C53C7.1B	1121	955
C53C7.3	642	186
C53C7.5A	2108	330
C53C7.5B	2117	330
C53C9.2	1856	290
C53C9.3A	1816	1361
C53C9.3B	1831	1376
C53C9.3C	1434	1270
C53C9.4	141	42
C53D5.1A	1676	280
C53D5.1B	1641	245
C53D5.1C	1524	128
C53D5.1D	1563	167
C53D5.2	946	106
C53D5.3	222	10
C53D5.4A	1357	358
C53D5.4B	1166	358
C53D5.4C	1166	358
C53D5.4D	1357	358
C53D5.4E	861	362
C53D5.4F	670	362
C53D5.5A	2034	214
C53D5.5B.1	2119	299
C53D5.5B.2	2000	180
C53D5.5B.3	2361	541
C53D5.6	3711	1875
C53D6.11	836	394
C53D6.2	1532	151

C53D6.3	1338	428
C53D6.4	1077	441
C53D6.5	1716	363
C53D6.6.1	2043	118
C53D6.6.2	1986	61
C53D6.7	1019	10
C53D6.8	546	204
C53H9.1	462	225
C53H9.2A	1683	245
C53H9.2B	1640	245
C53H9.2C	1515	245
C53H9.2D	1547	245
C53H9.2E	1707	245
C54A12.1	3052	1041
C54A12.2	1146	542
C54A12.4.1	842	476
C54A12.4.2	793	6
C54C6.11	288	132
C54C6.2	1403	1147
C54C6.4A	912	407
C54C6.4B	811	306
C54C6.6	779	322
C54C6.7	527	52
C54C8.11A	1278	447
C54C8.12	298	130
C54C8.2	1225	812
C54C8.3	978	390
C54C8.4	1248	518
C54C8.5	915	177
C54C8.6	672	321
C54C8.7	1254	387
C54C8.9	453	76
C54D10.12	1395	1114
C54D10.13	599	405
C54D10.14A	2205	382
C54D10.14B	2181	358
C54D10.17	168	53
C54D10.18	140	33
C54D10.1	906	291
C54D10.20	140	3
C54D10.21	1313	564
C54D10.2	837	311
C54D10.3	631	369
C54D10.4	1118	758

C54D10.5	1155	255
C54D10.6	1047	244
C54D10.7	1456	88
C54D10.8A	1369	1078
C54D10.8B	1369	1078
C54D10.9	567	2
C54D1.11	148	41
C54D1.1	4279	739
C54D1.2	571	152
C54D1.3	3407	65
C54D1.4	1656	1418
C54D1.5.1	5967	1324
C54D1.5.2	5338	1324
C54D1.6	2594	141
C54D1.7	500	173
C54D1.9	288	38
C54D2.10	206	17
C54D2.1	1286	642
C54D2.13	181	57
C54D2.14	293	61
C54D2.15	145	38
C54D2.16	348	239
C54D2.18	200	65
C54D2.4A	2076	1054
C54D2.4B.1	1509	487
C54D2.4B.2	1533	511
C54D2.5A	6129	1458
C54D2.5C	6174	1458
C54D2.5D	6273	1458
C54D2.5E	6150	1458
C54D2.5F	4257	1382
C54D2.6	675	57
C54E10.1	2619	1161
C54E10.2A	878	747
C54E10.2B	641	510
C54E10.3	957	515
C54E10.4	1042	462
C54E10.5	1301	197
C54E10.6	369	160
C54E10.8	306	152
C54E4.11	256	91
C54E4.12A	243	20
C54E4.12B	279	20
C54E4.1	738	126

C54E4.2A.1	827	222
C54E4.2A.2	864	259
C54E4.2B	913	647
C54E4.2C.1	746	141
C54E4.2C.2	864	259
C54E4.3	2319	179
C54E4.4	507	319
C54E4.5	883	646
C54F6.10	1026	876
C54F6.11	1194	987
C54F6.1	1159	249
C54F6.12	702	162
C54F6.13A	2079	1807
C54F6.13B	2022	1750
C54F6.14	657	82
C54F6.15	285	117
C54F6.16.1	574	268
C54F6.16.2	546	240
C54F6.18	317	119
C54F6.3	1092	460
C54F6.4	702	347
C54F6.5	235	91
C54F6.6	549	149
C54F6.7	1092	275
C54F6.8	1237	893
C54F6.9	1044	698
C54G10.1	282	22
C54G10.2A	2741	2130
C54G10.2B	2527	1980
C54G10.3A	2597	1871
C54G10.3B	2644	1918
C54G10.4A	1108	291
C54G10.4B.1	1387	982
C54G10.4B.2	1625	982
C54G10.4C	1189	291
C54G4.11	285	73
C54G4.14	133	27
C54G4.1A	2865	1716
C54G4.1B	1091	212
C54G4.2	1361	878
C54G4.3	844	577
C54G4.4	2685	2450
C54G4.5	464	22
C54G4.6	746	302

C54G4.7.1	1744	525
C54G4.7.2	1584	365
C54G4.7.3	1582	363
C54G4.8	1444	654
C54G4.9	1500	271
C54G6.1B	935	90
C54G6.2	1467	243
C54G6.3	1140	478
C54G6.5	369	69
C54G6.6	449	65
C54G7.10	143	16
C54G7.14	150	14
C54G7.15	391	258
C54G7.1	783	33
C54G7.2	1759	69
C54G7.3A	5851	4458
C54G7.3B	4200	852
C54G7.4	3720	60
C54G7.6	139	50
C54H2.1A	1212	707
C54H2.1B	540	134
C54H2.3	1855	1099
C54H2.4	978	514
C54H2.5.1	1288	343
C54H2.5.2	1312	367
C55A1.11	363	61
C55A1.12	981	518
C55A1.14	972	661
C55A1.1	801	621
C55A1.3	1083	954
C55A1.4	451	168
C55A1.5	1086	341
C55A1.6	363	80
C55A1.7	448	165
C55A6.10A	1857	766
C55A6.10B	1016	539
C55A6.11	688	530
C55A6.1.1	777	333
C55A6.1.2	836	392
C55A6.12A	659	165
C55A6.2A	2326	119
C55A6.2B	2349	142
C55A6.3	820	224
C55A6.4	1136	361

C55A6.5	820	259
C55A6.6	888	567
C55A6.7	956	150
C55A6.9	1481	1143
C55B6.1A	1782	63
C55B6.1B	1466	543
C55B6.2	1953	626
C55B6.7	314	119
C55B7.11	1624	367
C55B7.12A	645	405
C55B7.12B	822	582
C55B7.1	3125	722
C55B7.13	223	73
C55B7.2	2067	1806
C55B7.3	1283	716
C55B7.4A	1394	1067
C55B7.4B.1	939	3
C55B7.4B.2	1179	854
C55B7.4B.3	1167	228
C55B7.4B.4	1197	258
C55B7.4B.5	1199	260
C55B7.4B.6	1193	257
C55B7.5.1	1593	8
C55B7.5.2	1603	18
C55B7.6	2190	2046
C55B7.8	1657	135
C55B7.9.1	878	196
C55B7.9.2	1277	595
C55C2.2	392	123
C55C2.3	829	341
C55C2.4	708	207
C55C2.5A	1840	1146
C55C2.5B	1767	1146
C55C2.5C	969	516
C55C3.1	1990	1548
C55C3.3	1608	1421
C55C3.4	1388	186
C55C3.5	2108	1025
C55C3.6A	879	518
C55C3.6B	813	452
C55C3.7	894	153
C55C3.8	963	356
C55F2.1A	1345	747
C55F2.1B	1955	1357

C55F2.1C	1526	67
C55F2.2	789	496
C55H1.1	846	424
C55H1.2	1236	283
C55H1.5	213	54
C56A3.1	1288	224
C56A3.12	175	22
C56A3.14	194	41
C56A3.3A	1428	44
C56A3.3B	1482	25
C56A3.3C	827	441
C56A3.3D	1470	25
C56A3.4A	929	385
C56A3.4B	491	51
C56A3.5	1281	681
C56A3.6A.1	1549	602
C56A3.6A.2	1566	619
C56A3.6B	1329	172
C56A3.6C	1386	172
C56A3.6D.1	1492	602
C56A3.6D.2	1509	619
C56A3.7A	1177	28
C56A3.7B	1081	41
C56A3.7C	604	45
C56A3.7D	967	408
C56A3.8A	1241	968
C56A3.8B	1217	501
C56A3.8C	1131	1001
C56C10.10	1181	531
C56C10.11	2484	325
C56C10.1	2030	145
C56C10.12	4800	495
C56C10.13A	2764	1944
C56C10.13B	2619	1799
C56C10.14	144	51
C56C10.15	351	76
C56C10.3.1	993	464
C56C10.3.2	1411	882
C56C10.4	850	345
C56C10.5	1197	203
C56C10.7A.1	1451	369
C56C10.7A.2	1364	282
C56C10.7A.3	1469	387
C56C10.7B.1	1499	369

C56C10.7B.2	1412	282
C56C10.7B.3	1517	387
C56C10.7C.1	1364	282
C56C10.7C.2	1129	105
C56C10.8.1	892	62
C56C10.8.2	916	86
C56C10.9	1050	799
C56E10.1	1527	409
C56E10.3A	1980	695
C56E10.3B	1649	364
C56E10.4A	1355	332
C56E10.4B	1577	554
C56E10.4C	1208	185
C56E6.12	147	10
C56E6.1	2148	37
C56E6.15	219	7
C56E6.2	1141	537
C56E6.3A	2273	658
C56E6.3B	2232	658
C56E6.4	1368	19
C56E6.5	2125	243
C56E6.6	3940	3265
C56E6.7	915	655
C56E6.9	3273	2494
C56G2.15	766	151
C56G2.18	150	18
C56G2.1A	3925	967
C56G2.1B	2754	519
C56G2.21	167	33
C56G2.4	1747	1308
C56G2.5	2236	1984
C56G2.6A.1	1046	104
C56G2.6A.2	1442	500
C56G2.6B	1106	164
C56G2.6C	1104	150
C56G2.7	1395	808
C56G2.9	676	10
C56G3.1A.1	1678	213
C56G3.1A.2	1824	359
C56G3.1B	1744	279
C56G3.2	688	384
C56G7.1	711	409
C56G7.2	1162	10
C56G7.3	1054	845

CC4.2	741	433
CC4.3.1	1854	1454
CC4.3.2	1826	1454
CC8.2A	1402	146
CC8.2B	1399	153
CD4.10	390	135
CD4.11	531	389
CD4.1	762	207
CD4.18	134	27
CD4.19	132	28
CD4.2	974	460
CD4.3.1	641	73
CD4.3.2	644	76
CD4.4	796	95
CD4.5	1035	193
CD4.6	945	479
CD4.7A	390	36
CD4.7B	748	504
CD4.8	1899	512
CE7X_3.1	819	585
CE7X_3.3	150	31
CTEL3X.1	381	161
CTEL54X.1	1063	781
CTEL55X.1A	765	402
CTEL55X.1B	769	321
D1005.1	3662	898
D1005.2	1517	523
D1005.3	1208	205
D1005.4	445	105
D1005.5	791	37
D1005.6	374	229
D1007.10A	798	356
D1007.10B.1	1239	797
D1007.10B.2	1237	795
D1007.10C	516	348
D1007.12.1	545	169
D1007.12.2	706	324
D1007.13A	506	218
D1007.13B	821	123
D1007.14	985	581
D1007.15	3696	2453
D1007.1	717	365
D1007.18	391	109
D1007.19	520	22

D1007.20	161	70
D1007.2	907	770
D1007.3	802	272
D1007.4	584	101
D1007.5A	1740	277
D1007.5B	1695	277
D1007.6.1	528	279
D1007.6.2	543	289
D1007.7	3402	2056
D1007.8	888	341
D1009.1A	2389	1676
D1009.1B	360	48
D1009.2A	1912	1097
D1009.2B	1855	1040
D1009.3A	1793	221
D1009.3B	1787	215
D1009.4A	1011	28
D1009.4B	957	94
D1009.5	372	255
D1014.1	1649	716
D1014.2	1394	458
D1014.3.1	1166	274
D1014.3.2	1395	503
D1014.4	626	363
D1014.5	2279	2097
D1014.6	1434	195
D1014.7A	1566	912
D1014.7B	1521	867
D1014.8	1908	826
D1022.1A	1259	780
D1022.1B.1	1131	652
D1022.1B.2	1216	737
D1022.1B.3	1140	661
D1022.2	494	217
D1022.3	980	93
D1022.5	781	655
D1022.6	1278	205
D1022.7A.1	4264	444
D1022.7A.2	4305	482
D1022.7B.1	4279	444
D1022.7B.2	4317	482
D1022.7C.1	1953	444
D1022.7C.2	1991	482
D1022.8	1196	289

D1022.9	969	439
D1025.10	1058	295
D1025.1	1389	108
D1025.2	533	123
D1025.3	1189	784
D1037.1	2468	752
D1037.2	1989	1721
D1037.3	670	39
D1037.4	1073	268
D1037.5	1710	113
D1043.1	2879	2373
D1044.1	1210	856
D1044.12	199	41
D1044.13	203	66
D1044.2A	3499	163
D1044.2B	3236	163
D1044.2C	3530	239
D1044.3	2095	174
D1044.4	312	52
D1044.6	3599	245
D1044.7	1211	78
D1044.8	3140	416
D1046.17	439	3
D1046.1A.1	1712	117
D1046.1A.2	1985	117
D1046.1A.3	1742	117
D1046.1A.4	2137	117
D1046.1B.1	1713	118
D1046.1B.2	1986	118
D1046.1B.3	1743	118
D1046.1B.4	2138	118
D1046.1C.1	1718	117
D1046.1C.2	1991	117
D1046.1C.3	1748	117
D1046.1C.4	2143	117
D1046.1D.1	742	136
D1046.1D.2	682	462
D1046.1E.1	1215	462
D1046.1E.2	1488	462
D1046.1E.3	1186	433
D1046.1E.4	1707	111
D1046.1E.5	1245	462
D1046.1E.6	1640	462
D1046.1E.7	1332	579

D1046.2.1	1628	56
D1046.2.2	1673	101
D1046.3	1214	428
D1046.4	1707	177
D1046.5A	1832	567
D1046.5B	665	53
D1053.1	970	124
D1053.2	613	400
D1053.3	1097	33
D1053.4	632	23
D1053.5	137	50
D1054.10	721	382
D1054.11	1030	162
D1054.12	1011	479
D1054.13A	1489	1004
D1054.13B	1572	1087
D1054.14	1079	770
D1054.15A	1572	178
D1054.15B	1559	165
D1054.18A.1	325	32
D1054.18B	190	23
D1054.1	951	541
D1054.2.1	843	314
D1054.2.2	890	361
D1054.23	162	52
D1054.3A	666	458
D1054.3B	639	431
D1054.5	1231	468
D1054.8	934	493
D1054.9A	2079	477
D1054.9B	2227	477
D1054.9C	1096	477
D1054.9D	1986	477
D1054.9E	1998	477
D1054.9F	2034	477
D1054.9G	2182	477
D1054.9H	1953	477
D1054.9I	2197	477
D1065.1	1758	59
D1065.3	1734	39
D1065.4A	904	489
D1065.4B	990	489
D1065.5	972	486
D1069.2.1	736	8

D1069.2.2	1179	451
D1069.3A	1447	454
D1069.3B	1621	454
D1069.4	1164	395
D1073.1A	2112	1193
D1073.1B	3069	1193
D1079.1	857	263
D1081.10	1210	421
D1081.11	573	415
D1081.12	536	143
D1081.15	282	8
D1081.2	1206	474
D1081.3	2292	410
D1081.4	703	471
D1081.5	978	696
D1081.6A	661	305
D1081.6B	780	461
D1081.7A	2887	1183
D1081.7B	2881	1177
D1081.8	2497	2049
D1081.9	914	617
D1086.10A	697	220
D1086.10B	524	164
D1086.10C	714	423
D1086.11A	887	527
D1086.11B	904	731
D1086.12A	763	257
D1086.12B	759	259
D1086.12C	643	137
D1086.17	798	45
D1086.1	797	530
D1086.18	588	370
D1086.19	354	214
D1086.2A	727	546
D1086.2B	523	342
D1086.3	778	118
D1086.4A	932	629
D1086.4B	181	59
D1086.6	1102	307
D1086.7	765	571
D1086.8A	724	112
D1086.8B	240	58
D1086.9	2212	36
D2005.2	837	27

D2005.3	506	259
D2005.4.1	3378	2042
D2005.4.2	3473	2137
D2005.5	3500	3267
D2005.6	1272	932
D2005.7	720	322
D2007.1	351	122
D2007.2	588	69
D2007.3	159	8
D2007.4	647	291
D2007.5.1	1440	745
D2007.5.2	1495	800
D2013.10	861	349
D2013.1	903	411
D2013.2.1	1553	561
D2013.2.2	1561	561
D2013.3	1266	190
D2013.5	3287	756
D2013.6	1191	94
D2013.7	1254	656
D2013.8A	3463	61
D2013.8B	1671	800
D2013.9.1	2179	1727
D2013.9.2	2218	1766
D2021.1	3931	3392
D2021.2A	2173	1213
D2021.2B	1463	503
D2021.4A	989	568
D2023.12	140	20
D2023.15	150	33
D2023.1A	831	430
D2023.1B.1	754	64
D2023.1B.2	687	135
D2023.1C	1502	270
D2023.1D	1669	437
D2023.1E	1219	718
D2023.1F	1235	734
D2023.1G	414	324
D2023.2A.1	3888	1345
D2023.2A.2	4003	1460
D2023.2B	2545	325
D2023.3A	757	181
D2023.3B	549	46
D2023.4	595	76

D2023.5	1088	724
D2023.6	1738	317
D2023.7	1218	809
D2024.1	1080	365
D2024.14	201	71
D2024.16	517	245
D2024.18	303	7
D2024.2	969	467
D2024.3	963	132
D2024.4A	1232	870
D2024.4B	946	584
D2024.5A	717	295
D2024.5B	765	295
D2024.6	1216	785
D2024.7.1	759	468
D2024.7.2	872	581
D2024.8	966	120
D2030.10A	3221	1648
D2030.10B	3222	1635
D2030.1.1	1970	199
D2030.11	607	435
D2030.1.2	2061	290
D2030.12	703	360
D2030.2A.1	1990	48
D2030.2A.2	2026	84
D2030.2A.3	2071	129
D2030.2B.1	2026	84
D2030.2B.2	1907	1546
D2030.2B.3	1988	48
D2030.2B.4	2071	129
D2030.2B.5	1931	1570
D2030.2B.6	1990	50
D2030.3	1636	418
D2030.4	505	90
D2030.5	846	18
D2030.6	2671	1818
D2030.7	1473	638
D2030.8	2032	1237
D2030.9A.1	2031	1494
D2030.9A.2	2017	1494
D2030.9B.1	1993	1456
D2030.9B.2	1979	1456
D2030.9C	2007	1470
D2030.9D.1	1851	1314

D2030.9D.2	1837	1314
D2030.9E	1827	1290
D2045.1A	3612	741
D2045.1B	2527	1503
D2045.1C	3190	741
D2045.1D	3695	908
D2045.2	5649	1260
D2045.6	2678	1766
D2045.7	969	337
D2045.8	820	318
D2045.9	1932	859
D2062.12	1194	161
D2062.14	448	266
D2062.1	656	247
D2062.2	993	467
D2062.3	963	468
D2062.5	618	178
D2062.6	306	123
D2062.7	467	280
D2062.8	984	879
D2062.9	975	230
D2063.1	1087	545
D2063.2	1932	1618
D2063.3A	1169	837
D2063.3B	1121	837
D2063.4	785	247
D2085.1	7023	5422
D2085.2	528	146
D2085.3	2285	335
D2085.4	3162	1647
D2085.5A	3367	2678
D2085.5B.1	3304	2615
D2085.5B.2	3368	2679
D2085.5C	3487	2798
D2085.5D	3760	3071
D2085.5E	3583	2894
D2085.5F	3310	2621
D2085.5G.1	3577	2888
D2085.5G.2	3641	2952
D2085.5H	3640	2951
D2085.5I	3982	3293
D2085.5J	4255	3566
D2085.6	1552	719
D2085.7A	596	15

D2085.7B	1352	832
D2089.1A	1554	211
D2089.1B.1	641	211
D2089.1B.2	570	211
D2089.1B.3	755	211
D2089.2	621	30
D2089.3	1722	235
D2089.4A	2520	303
D2089.4B.1	2093	1018
D2089.4B.2	2124	1049
D2089.5	1365	997
D2089.6	150	32
D2092.1A	2358	1531
D2092.1B	2616	1789
D2092.2.1	1480	391
D2092.2.2	1549	460
D2092.3	1445	840
D2092.4	1440	1004
D2092.5	3682	2183
D2092.6	1110	15
D2092.7	1359	16
D2092.8	517	217
D2096.10	1306	1153
D2096.13	517	230
D2096.1	423	91
D2096.2A	767	383
D2096.2B	359	74
D2096.3.1	2840	1651
D2096.3.2	2947	1758
D2096.3.3	2997	1808
D2096.4	1784	192
D2096.5	456	238
D2096.6	692	113
D2096.7A	502	277
D2096.7B	1050	359
D2096.8	1339	423
D2096.9	280	98
DC2.1	1062	844
DC2.2	1062	776
DC2.3A	684	465
DC2.3B	1156	463
DC2.5	1179	107
DC2.6	873	643
DC2.7A	2003	668

DC2.7B	1077	668
DC2.7C	1060	819
DC2.8	842	423
DH11.1.1	2057	1170
DH11.1.2	2112	1225
DH11.2	1528	329
DH11.3	3936	1649
DH11.5A	1648	942
DH11.5B	1547	942
DH11.5C	1392	787
DH11.5D	2758	942
DH11.5E	1350	945
DL2.2	256	115
DY3.10	161	27
DY3.12	146	44
DY3.1	442	75
DY3.2.1	2165	88
DY3.2.2	2218	141
DY3.3	471	109
DY3.4A.1	1756	1493
DY3.4A.2	1865	1602
DY3.4B.1	1644	1381
DY3.4B.2	1764	1501
DY3.4B.3	1865	1602
DY3.5	1995	15
DY3.6	1697	750
DY3.7	3337	2247
DY3.8	756	428
DY3.9	160	57
E01A2.1A	1397	135
E01A2.1B	1466	204
E01A2.2A.1	2319	119
E01A2.2A.2	2317	119
E01A2.2B.1	1926	1544
E01A2.2B.2	1924	1544
E01A2.3A	1375	454
E01A2.3B	838	434
E01A2.4.1	1613	97
E01A2.4.2	1681	165
E01A2.5	846	603
E01A2.6.1	1248	134
E01A2.6.2	781	134
E01A2.6.3	1276	162
E01A2.7	1177	98

E01B7.1	2652	1287
E01B7.2	711	479
E01F3.1A	1944	904
E01F3.1B	2209	389
E01F3.1C	2082	215
E01F3.1D	1836	796
E01F3.1E	2432	612
E01F3.1F	2068	248
E01F3.1G	2094	248
E01F3.1H	2056	215
E01F3.1I	2458	612
E01F3.1J	2235	389
E01G4.1	1520	613
E01G4.3A	646	234
E01G4.3B.1	720	294
E01G4.3B.2	649	227
E01G4.3B.3	597	173
E01G4.3C	756	344
E01G4.4A	2239	456
E01G4.4B	2050	267
E01G4.4C.1	1831	48
E01G4.4C.2	1799	16
E01G4.4C.3	2006	223
E01G4.4C.4	2202	419
E01G4.5	1263	903
E01G4.6	2769	16
E01G6.1	4644	675
E01G6.2	1045	179
E01G6.3	1961	1210
E01G6.6	141	54
E01G6.7	261	21
E01G6.8	355	57
E01H11.1A	2378	1890
E01H11.1B	2362	1804
E01H11.1C	3094	2198
E01H11.1D	2592	2106
E01H11.3	442	98
E01H11.6	135	37
E02A10.1	1458	124
E02A10.2A	1276	323
E02A10.2B	937	152
E02A10.3A	728	326
E02A10.3B	621	272
E02A10.3C	609	260

E02A10.4	585	65
E02A10.7	134	35
E02C12.10	1998	1743
E02C12.17	146	28
E02C12.2	999	197
E02C12.3	906	289
E02C12.4	476	98
E02C12.5	1389	1009
E02C12.6	1312	108
E02C12.8A	1331	96
E02C12.8B	275	90
E02C12.8C	1258	96
E02C12.9	801	464
E02D9.1A	1342	1094
E02D9.1B	1305	660
E02D9.1C	1190	887
E02D9.1D	745	497
E02H1.1.1	1044	257
E02H1.1.2	1081	294
E02H1.2	1343	438
E02H1.3	1392	757
E02H1.4	1861	1439
E02H1.5	837	17
E02H1.6	691	66
E02H1.7	1769	299
E02H1.8	496	48
E02H4.1	1995	430
E02H4.2	1683	379
E02H4.3A	3642	1853
E02H4.4	1557	141
E02H4.6	1123	200
E02H4.7	554	194
E02H9.1	450	210
E02H9.4.1	478	75
E02H9.4.2	544	140
E02H9.5	1536	692
E02H9.7.1	463	164
E02H9.8A.1	1557	1238
E02H9.8A.2	1701	1382
E02H9.8B.1	1563	1244
E02H9.8B.2	1707	1388
E02H9.9	483	120
E03A3.2	2563	905
E03A3.4	405	56

E03A3.6A	6393	3506
E03A3.6B	2984	2692
E03D2.1	750	157
E03D2.2A	699	303
E03D2.2B	602	303
E03D2.4	1056	93
E03E2.1.1	1698	448
E03E2.1.2	1941	691
E03E2.1.3	1713	448
E03G2.1	888	397
E03G2.2	4569	723
E03G2.3	1127	71
E03G2.4	1142	124
E03H12.1	1037	717
E03H12.26	193	30
E03H12.2	894	460
E03H12.3	1008	609
E03H12.4	864	45
E03H12.6A	1001	535
E03H12.6B	998	535
E03H12.7	578	182
E03H12.9	666	515
E03H4.10	1302	188
E03H4.11	1155	498
E03H4.12	966	140
E03H4.13	993	170
E03H4.2	1015	244
E03H4.3	969	131
E03H4.4	2418	530
E03H4.7	1980	530
E03H4.8	1471	471
E04A4.4A	2692	164
E04A4.4B	2704	176
E04A4.4C	736	392
E04A4.5	933	258
E04A4.6	1423	213
E04A4.7.1	498	161
E04A4.7.2	530	193
E04A4.7.3	543	206
E04A4.8	719	161
E04D5.1A.1	2049	475
E04D5.1A.2	2069	495
E04D5.1B	766	464
E04D5.2	1302	218

E04D5.3	1792	21
E04D5.4A	647	81
E04D5.4B	331	113
E04D5.5	909	313
E04F6.11A	3520	2421
E04F6.11B	2490	2240
E04F6.14	948	222
E04F6.16	186	41
E04F6.2	912	644
E04F6.3	1063	677
E04F6.4	2012	842
E04F6.5A.1	2004	559
E04F6.5A.2	2049	604
E04F6.5B.1	1684	559
E04F6.5B.2	1729	604
E04F6.6	1634	318
E04F6.8.1	400	58
E04F6.8.2	525	144
E04F6.9	441	50
E_BE45912.2	664	147
EEED8.10A	2395	561
EEED8.10B	2282	541
EEED8.1.1	1183	361
EEED8.11	923	12
EEED8.1.2	1207	385
EEED8.12	705	270
EEED8.13	584	22
EEED8.14	1188	85
EEED8.15	1305	591
EEED8.16	1986	112
EEED8.18	229	62
EEED8.2	1010	247
EEED8.3	884	51
EEED8.5	3982	1137
EEED8.6	1455	1064
EEED8.7A	836	358
EEED8.7B	381	263
EEED8.8	1038	693
EEED8.9	2116	38
EGAP1.3	1736	962
EGAP2.1	1146	601
EGAP2.2	186	4
EGAP2.3.1	1509	286
EGAP2.3.2	1589	366

EGAP4.1	548	220
EGAP5.1	249	65
EGAP7.1	964	84
EGAP798.1	981	212
EGAP9.2	1068	548
EGAP9.3	1171	887
EGAP9.4	608	270
F01D4.1A	1623	910
F01D4.1B	1623	910
F01D4.2	1789	141
F01D4.4.1	1696	384
F01D4.4.2	1636	384
F01D4.4.3	1599	384
F01D4.5A	779	233
F01D4.5B	826	229
F01D4.6A	1193	164
F01D4.6B	1169	140
F01D4.6C	1064	35
F01D4.7	1092	288
F01D4.8	1293	417
F01D4.9	1239	510
F01D5.10	1173	563
F01D5.1	583	344
F01D5.5	567	289
F01D5.6	1365	1083
F01D5.7A	1014	273
F01D5.7B	1029	273
F01D5.8.1	1283	470
F01D5.8.2	1246	470
F01D5.9	1565	1161
F01E11.11	144	32
F01E11.1	1914	535
F01E11.15	139	29
F01E11.17	931	627
F01E11.3	990	483
F01E11.4	1008	377
F01E11.5A	1831	446
F01E11.5B	1613	5
F01E11.5C	1849	446
F01F1.10A	1350	66
F01F1.10B	1347	66
F01F1.10C	1323	530
F01F1.11	1856	1619
F01F1.12A.1	1352	984

F01F1.12A.2	1227	859
F01F1.12B.1	1024	852
F01F1.12B.2	899	727
F01F1.13A	963	610
F01F1.13B	928	575
F01F1.14	780	121
F01F1.15.1	721	315
F01F1.15.2	812	406
F01F1.1A	2298	1160
F01F1.1B	625	350
F01F1.1C	2188	1050
F01F1.2	721	161
F01F1.3	853	46
F01F1.4	1451	95
F01F1.5.1	2044	1471
F01F1.5.2	2082	3
F01F1.6.1	1832	628
F01F1.6.2	1952	748
F01F1.7	2304	1883
F01F1.8A.1	1910	279
F01F1.8A.2	1906	275
F01F1.8B.1	1900	279
F01F1.8B.2	1896	275
F01F1.9	1547	1295
F01G10.10	1921	320
F01G10.1.1	1960	1504
F01G10.1.2	1981	1525
F01G10.21	1142	466
F01G10.2	1384	1083
F01G10.3	1640	151
F01G10.4	810	445
F01G10.5	2553	1825
F01G10.6	926	213
F01G10.7	1331	199
F01G10.8A	1162	148
F01G10.8B	1245	231
F01G10.9	1644	603
F01G12.13	197	66
F01G12.18	273	21
F01G12.1	921	766
F01G12.2A	1081	266
F01G12.2B	1463	648
F01G12.5A.1	5744	236
F01G12.5A.2	5570	236

F01G12.5B.1	5747	236
F01G12.5B.2	5573	236
F01G12.9	126	18
F01G4.1	4815	460
F01G4.2	916	113
F01G4.3	3907	937
F01G4.4A	2375	253
F01G4.4B	2384	253
F01G4.5	897	511
F01G4.6A.1	1436	915
F01G4.6A.2	1375	915
F01G4.6A.3	1152	915
F01G4.6B.1	1761	1240
F01G4.6B.2	1700	1240
F01G4.6B.3	1477	1240
F01G4.7	185	53
F02A9.2A	657	196
F02A9.2B	255	16
F02A9.3.1	615	425
F02A9.3.2	619	425
F02A9.3.3	764	574
F02A9.4A	2111	1482
F02A9.4B	1761	450
F02A9.6	4311	2248
F02A9.7	579	297
F02C12.1	2578	68
F02C12.2	968	639
F02C12.3	365	134
F02C12.8B	357	46
F02C12.8C	311	2
F02C9.2	2421	690
F02C9.3	3352	1061
F02C9.4	633	123
F02D10.10	180	42
F02D10.1	1051	105
F02D10.3	1035	391
F02D10.5	1962	1642
F02D10.6	600	209
F02D10.7	1539	214
F02D8.1	776	186
F02D8.2	858	518
F02D8.3	1113	300
F02D8.4	1506	970
F02D8.5	442	64

F02E11.1	1884	839
F02E11.2A	282	129
F02E11.2B	264	129
F02E11.3	841	274
F02E11.4	422	55
F02E11.5	653	132
F02E11.7A	627	398
F02E11.7B	353	124
F02E11.7C	382	54
F02E8.10	150	4
F02E8.1.1	1185	773
F02E8.1.2	1065	773
F02E8.1.3	1208	796
F02E8.2A	1827	1405
F02E8.2B	1767	1345
F02E8.3	576	212
F02E8.4	2481	821
F02E8.5	1972	1585
F02E8.6	4640	1576
F02E8.7	199	78
F02E9.10A.1	1454	950
F02E9.10A.2	1465	961
F02E9.10B.1	1262	758
F02E9.10B.2	1273	769
F02E9.10C.1	1594	950
F02E9.10C.2	1605	961
F02E9.1	606	395
F02E9.2A	1044	293
F02E9.2B	1195	444
F02E9.3	960	495
F02E9.4A	4695	2023
F02E9.4B	4701	2023
F02E9.5A	776	425
F02E9.5B	531	180
F02E9.7	1402	747
F02E9.9A	2340	1561
F02E9.9B	2418	1639
F02G3.1A	3238	40
F02G3.1B	3247	40
F02G3.1C	3327	1346
F02G3.2	218	47
F02H6.2	1819	233
F02H6.3A.1	1407	122
F02H6.3A.2	1432	147

F02H6.3B	533	131
F02H6.4A	1296	140
F02H6.4B	417	36
F02H6.5A	1632	416
F02H6.5B	1485	416
F02H6.5C	1327	258
F02H6.5D	770	150
F02H6.5E	917	297
F02H6.6	1014	429
F02H6.71	281	109
F07A11.11	150	10
F07A11.1	1737	1504
F07A11.2A.1	2364	655
F07A11.2A.2	2268	655
F07A11.2A.3	2554	845
F07A11.2A.4	2381	672
F07A11.2B.1	2325	640
F07A11.2B.2	2229	640
F07A11.2B.3	2515	830
F07A11.2B.4	2342	657
F07A11.3	2604	2100
F07A11.4A	3515	1191
F07A11.4B	3208	764
F07A11.5	1069	783
F07A11.6A	7109	4753
F07A11.6B	7697	5341
F07A11.6C	7629	5273
F07A11.6D.1	2163	1538
F07A11.6D.2	2656	2031
F07A11.6E	7201	4845
F07A11.6F	6660	4304
F07A11.6G	1011	386
F07A11.9	219	79
F07A5.1A	1458	938
F07A5.1B	1866	1218
F07A5.2	1059	68
F07A5.3	1822	605
F07A5.4	1186	805
F07A5.5	1954	603
F07A5.7A.1	3406	1737
F07A5.7A.2	3037	1737
F07A5.7A.3	3021	1737
F07A5.7A.4	3359	1737
F07A5.7B.1	2493	824

F07A5.7B.2	2124	824
F07A5.7B.3	2108	824
F07A5.7B.4	2446	824
F07B10.1A	1386	405
F07B10.1B	1239	258
F07B10.2	1053	731
F07B10.3	1005	745
F07B10.4A	1032	144
F07B10.4B	1026	144
F07B10.5	1628	1121
F07B10.6	927	392
F07B10.7A	1211	354
F07B10.7B	827	354
F07B7.14	705	500
F07B7.2	951	176
F07C3.10	1689	674
F07C3.12	150	19
F07C3.1	2811	1336
F07C3.14	215	30
F07C3.16	246	116
F07C3.2	546	20
F07C3.3	2272	1815
F07C3.4	4523	1201
F07C3.7	1728	247
F07C3.8	855	297
F07C3.9	162	30
F07C4.10	774	70
F07C4.11	762	312
F07C4.12A	1089	564
F07C4.12B	1695	48
F07C4.13	1032	254
F07C4.14	1005	449
F07C4.1	996	426
F07C4.3	921	101
F07C4.4	957	142
F07C4.5	975	112
F07C4.6	675	309
F07C4.7	594	87
F07C4.8	948	144
F07C6.1A	1128	699
F07C6.1B	761	318
F07C6.3	666	331
F07C6.4A	1936	88
F07C6.4B	2728	1469

F07C6.4C.1	2357	1098
F07C6.4C.2	2251	992
F07C6.4D	3475	2216
F07C6.4E	2400	1310
F07C6.6	430	79
F07D10.1	713	95
F07D3.2	748	378
F07D3.3	832	459
F07E5.11	192	72
F07E5.1	1287	115
F07E5.12	510	3
F07E5.5	1246	153
F07E5.6	1605	858
F07E5.7	723	538
F07E5.8	2283	2090
F07E5.9.1	1667	1229
F07E5.9.2	1611	1173
F07F6.1	1495	950
F07F6.2	826	419
F07F6.4	3264	411
F07F6.5	740	138
F07F6.6.1	3152	1454
F07F6.6.2	3251	1553
F07F6.7	906	126
F07F6.8	1067	713
F07F6.9	981	543
F07G11.1	954	294
F07G11.3	1590	319
F07G11.4	1675	478
F07G11.5A	770	185
F07G11.5B	692	209
F07G11.8	882	570
F07G11.9	6044	2956
F07G6.2	729	477
F07G6.5	177	62
F07G6.8	387	103
F07H5.10	1262	709
F07H5.2	1164	278
F07H5.3A	651	410
F07H5.6	405	214
F07H5.7	958	239
F07H5.8	2685	44
F07H5.9A	1446	492
F07H5.9B	1387	32

F08A10.1A	2163	286
F08A10.1B	2363	870
F08A10.1C	2341	870
F08A10.1D	2142	286
F08A10.1E	2264	387
F08A10.1F	2567	690
F08A10.1G	2474	597
F08A10.1H	2567	690
F08A10.1I	2141	286
F08A10.1J	2749	915
F08A10.1K	2326	492
F08A7.1B	211	38
F08A8.1A.1	2125	1564
F08A8.1A.2	2131	1570
F08A8.1B.1	2131	1570
F08A8.1B	2003	1541
F08A8.1B.2	2008	1447
F08A8.1B.3	1840	1279
F08A8.1C.1	2125	1564
F08A8.1C.2	2131	1570
F08A8.2	2069	1226
F08A8.3	2091	260
F08A8.4.1	2082	271
F08A8.4.2	2191	380
F08A8.5A	1230	895
F08A8.5B	1287	952
F08A8.6	1089	976
F08A8.7.1	1135	804
F08A8.7.2	1158	827
F08A8.8	669	280
F08B1.1A.1	2169	268
F08B1.1A.2	2446	545
F08B1.1A.3	2548	268
F08B1.1B.1	2081	253
F08B1.1B.2	2460	253
F08B1.1C.1	2187	103
F08B1.1C.2	2465	213
F08B12.1	2973	218
F08B12.2	1145	422
F08B12.3A	3653	3361
F08B12.3B	3418	3126
F08B12.3C	3392	3100
F08B12.3D	3445	3153
F08B12.3E	3517	3225

F08B12.3F	3472	3180
F08B12.3G	3526	3234
F08B12.3H	3487	3195
F08B12.4A	487	81
F08B12.4B	487	81
F08B12.4C.1	538	132
F08B12.4C.2	316	61
F08B12.4C.3	381	75
F08B12.4D	334	51
F08B12.4E	397	53
F08B12.4F	394	53
F08B12.4G	349	5
F08B12.4H	286	3
F08B12.4I	362	21
F08B1.2	5040	4818
F08B12.7	141	26
F08B4.1A	2963	83
F08B4.1B	2972	83
F08B4.2A	4635	1328
F08B4.2B	4215	1328
F08B4.3.1	360	13
F08B4.3.2	356	18
F08B4.3.3	486	322
F08B4.4	434	161
F08B4.5	1605	1285
F08B4.6	2752	1122
F08B4.7	654	38
F08B6.1	388	160
F08B6.2	669	361
F08B6.3	931	279
F08B6.4A.1	2238	1520
F08B6.4A.2	2339	1621
F08B6.4B	1671	953
F08B6.4C.1	2238	1520
F08B6.4C.2	2219	1501
F08B6.4C.3	2339	1621
F08C6.10	273	49
F08C6.13	333	152
F08C6.15	413	240
F08C6.1A.1	3788	1754
F08C6.1A.2	3910	1876
F08C6.1B	1163	342
F08C6.1C.1	3027	1754
F08C6.1C.2	3149	1876

F08C6.2B	1394	807
F08C6.3	2272	132
F08C6.4A	1406	429
F08C6.4B	1321	429
F08C6.5	628	445
F08C6.6	1204	930
F08C6.7	1299	67
F08D12.1	2012	186
F08D12.12.1	1731	168
F08D12.12.2	1501	748
F08D12.2	722	21
F08D12.3A	929	705
F08D12.3B	1213	301
F08D12.4A	780	192
F08D12.6	1502	945
F08D12.7	1046	646
F08D12.8	999	32
F08E10.1	987	692
F08E10.2	852	553
F08E10.3	1062	921
F08E10.6	1011	284
F08E10.7	681	150
F08F1.17	261	34
F08F1.18	283	64
F08F1.1A	1675	756
F08F1.1B	2009	107
F08F1.1C	1888	418
F08F1.20	209	36
F08F1.3	387	226
F08F1.4A	635	413
F08F1.4B	629	460
F08F1.5	1572	813
F08F1.7	2436	469
F08F1.8	732	256
F08F1.9	393	273
F08F3.1	814	393
F08F3.2A	2299	1172
F08F3.2B	1841	714
F08F3.3.1	1597	475
F08F3.3.2	1634	512
F08F3.4	1235	754
F08F3.6	1333	588
F08F3.7	1590	1083
F08F3.8	1143	714

F08F3.9A	1215	400
F08F3.9B	1482	400
F08F8.10A	1636	494
F08F8.10B	1627	494
F08F8.1	1149	534
F08F8.2	1947	852
F08F8.3A	2144	1136
F08F8.3B	2093	1085
F08F8.4	1122	280
F08F8.6	858	499
F08F8.7.1	789	26
F08F8.7.2	782	19
F08F8.8	1057	559
F08F8.9A.1	2018	293
F08F8.9A.2	2137	412
F08F8.9B.1	1943	293
F08F8.9B.2	2062	412
F08F8.9C.1	1794	293
F08F8.9C.2	1913	412
F08G12.10	1483	993
F08G12.11	454	98
F08G12.1	2128	1483
F08G12.2	1256	230
F08G12.3	1655	1089
F08G12.4	694	272
F08G12.5	558	211
F08G12.8	610	373
F08G2.2	384	251
F08G2.4	623	23
F08G2.5	779	359
F08G2.6	512	121
F08G2.7	1563	100
F08G2.8	781	210
F08G5.16	144	53
F08G5.19	196	37
F08G5.1A	1344	355
F08G5.1B	1239	250
F08G5.2	1129	473
F08G5.3A.1	658	87
F08G5.3A.2	741	170
F08G5.3B	677	111
F08G5.4	960	118
F08G5.5	1570	511
F08G5.6	1146	109

F08G5.7	1247	348
F08H9.1	2068	806
F08H9.12	864	682
F08H9.2	509	359
F08H9.4B	309	35
F08H9.5	1179	6
F08H9.6	1305	427
F08H9.7	1254	1092
F08H9.8	1259	569
F08H9.9	1146	11
F09A5.1	1750	420
F09A5.2	2924	2205
F09A5.3A	843	7
F09A5.3B	919	76
F09A5.4A	1533	175
F09A5.4B.1	1680	322
F09A5.4B.2	1681	323
F09A5.4C	1675	169
F09A5.4D	1553	195
F09A5.4E	1591	233
F09A5.4F	979	229
F09A5.4G.1	1782	424
F09A5.4G.2	1561	147
F09A5.4G.3	1681	323
F09A5.4G.4	1675	169
F09A5.9	579	78
F09B12.1A	2035	13
F09B12.1B.1	2033	38
F09B12.1B.2	2231	236
F09B12.2	1009	387
F09B12.3	1847	1570
F09B12.5	1155	641
F09B12.6	2038	535
F09B12.7	165	38
F09B12.8	225	33
F09B9.1	2240	1053
F09B9.2A	2956	1664
F09B9.2B	2889	1608
F09B9.3	1566	1042
F09B9.4	801	105
F09B9.5	611	122
F09C12.1	1338	665
F09C12.13	313	42
F09C12.2	1257	619

F09C12.6	1017	140
F09C12.8	1163	555
F09C3.1	4273	2294
F09C3.2	991	351
F09C3.4	1352	227
F09C6.11A	417	162
F09C6.11B	357	102
F09C6.12	219	75
F09C6.13	234	71
F09C6.14	246	105
F09C6.16	1002	501
F09C6.1	686	443
F09C6.3	799	88
F09C6.7	975	372
F09C6.8	1502	776
F09C6.9	1428	719
F09C8.1	1255	1071
F09C8.2	3223	1356
F09D1.1	1935	1089
F09D12.1	544	136
F09D12.2	1374	969
F09D5.10	247	33
F09D5.2	262	72
F09D5.4	250	123
F09D5.5	146	39
F09D5.7	146	3
F09D5.8	293	55
F09E10.10	437	357
F09E10.11B	711	150
F09E10.1	279	36
F09E10.3	1020	89
F09E10.5	954	405
F09E10.6	540	171
F09E10.7A.1	603	198
F09E10.7A.2	398	164
F09E10.7B	476	252
F09E10.8A	2422	934
F09E10.8B	2199	1392
F09E5.11	787	314
F09E5.12	1100	429
F09E5.1	2332	13
F09E5.13	1231	245
F09E5.14	451	98
F09E5.15A	731	345

F09E5.15B	875	489
F09E5.16	740	180
F09E5.17	683	37
F09E5.2	1338	787
F09E5.22	220	47
F09E5.3	1076	794
F09E5.4	1029	3
F09E5.5.1	2541	25
F09E5.5.2	2549	33
F09E5.7.1	1443	659
F09E5.7.2	1457	673
F09E5.8	800	531
F09E8.12	304	167
F09E8.1A	681	250
F09E8.1B	822	250
F09E8.2A	1232	877
F09E8.2B	1157	867
F09E8.3	4219	994
F09E8.5	644	516
F09E8.6	1552	622
F09E8.7A	1865	230
F09E8.7B	1790	230
F09F3.10	1125	170
F09F3.11	927	608
F09F3.12	924	538
F09F3.13	930	535
F09F3.16	146	61
F09F3.1A	960	443
F09F3.2	972	607
F09F3.4	906	412
F09F3.5	2202	41
F09F3.6	1376	1013
F09F3.7	1432	528
F09F3.9.1	2267	68
F09F3.9.2	2290	91
F09F7.1	897	667
F09F7.2A.1	618	84
F09F7.2A.2	995	84
F09F7.2B	2131	84
F09F7.3.1	3644	2194
F09F7.3.2	3623	2173
F09F7.4A.1	1493	992
F09F7.4A.2	1539	1038
F09F7.4B.1	1435	934

F09F7.4B.2	1569	1068
F09F7.4B.3	1539	1038
F09F7.5A.1	1902	217
F09F7.5A.2	1944	259
F09F7.5B	1901	216
F09F7.5C.1	1693	217
F09F7.5C.2	1735	259
F09F7.6	365	106
F09F7.7A	974	186
F09F7.7B	645	186
F09F7.8	394	19
F09F9.1	592	225
F09F9.2	689	318
F09F9.3	486	191
F09F9.4	2640	1681
F09F9.5	660	130
F09F9.7	190	33
F09F9.9	145	45
F09G2.10	201	67
F09G2.1	3053	1546
F09G2.2	1150	78
F09G2.3	1877	1330
F09G2.4	2623	572
F09G2.5	1783	729
F09G2.6	1602	1132
F09G2.7	1059	792
F09G2.8A	1665	424
F09G2.8B	1793	552
F09G2.9	1847	140
F09G8.10	598	219
F09G8.2	1311	690
F09G8.3	1284	890
F09G8.4	3933	3338
F09G8.5	1420	605
F09G8.8	1972	120
F10A3.11	852	135
F10A3.12	1358	541
F10A3.13	1083	233
F10A3.15	1029	197
F10A3.1	570	84
F10A3.3	613	106
F10A3.4	1790	474
F10A3.5	975	194
F10A3.6	1014	236

F10A3.8	1092	32
F10A3.9	1080	941
F10B5.1.1	699	371
F10B5.1.2	717	389
F10B5.2	1170	617
F10B5.3	1591	931
F10B5.4	1956	279
F10B5.5	1380	713
F10B5.6	2069	61
F10B5.7	5483	2459
F10B5.8	2000	1408
F10B5.9	583	70
F10C1.18	195	51
F10C1.21	361	52
F10C1.2A.1	2078	1475
F10C1.2A.2	2132	1529
F10C1.2B	2179	1576
F10C1.3	361	84
F10C1.5	1021	157
F10C1.7A	1805	34
F10C1.7C	1754	34
F10C1.7E	1907	34
F10C1.8A	650	148
F10C1.8B	2106	1631
F10C1.9.1	814	5
F10C1.9.2	715	471
F10C2.10	402	226
F10C2.11	499	63
F10C2.12	360	49
F10C2.2	1236	461
F10C2.3	2132	403
F10C2.4	3378	2971
F10C2.5	2548	1154
F10C2.6	1894	614
F10C2.7	1377	355
F10C5.1	2116	822
F10C5.2.1	1968	1256
F10C5.2.2	1984	1272
F10D11.1.1	805	325
F10D11.1.2	870	386
F10D11.2	1543	142
F10D11.4	507	41
F10D11.5	1680	643
F10D11.6A	2856	806

F10D11.6B	2277	227
F10D11.8	219	59
F10D2.10	1104	180
F10D2.1	1092	611
F10D2.11	1793	1150
F10D2.2A	1810	1272
F10D2.2B	1716	1178
F10D2.4	1091	311
F10D2.5	1722	1353
F10D2.6	1716	551
F10D2.7	1572	1113
F10D2.8	423	119
F10D2.9	1123	210
F10D7.1	2050	88
F10D7.2	1595	106
F10D7.3	987	276
F10D7.4	957	110
F10D7.5A	2346	1391
F10D7.5B	597	249
F10D7.5C	1806	851
F10D7.5E	513	249
F10E7.10	1397	1104
F10E7.11	1006	56
F10E7.1	1742	391
F10E7.2	738	82
F10E7.4	2562	408
F10E7.5	817	4
F10E7.6	628	51
F10E7.7.1	440	299
F10E7.7.2	593	306
F10E7.8	3200	146
F10E7.9	1930	339
F10E9.10	490	43
F10E9.12	622	118
F10E9.14	146	60
F10E9.1	594	33
F10E9.20	149	38
F10E9.21	150	29
F10E9.22	150	55
F10E9.2	877	602
F10E9.3	1292	947
F10E9.4	982	311
F10E9.5	695	160
F10E9.6A	2277	1584

F10E9.6B	2234	1541
F10E9.6C	2601	1908
F10E9.7.1	495	123
F10E9.7.2	566	38
F10E9.8	2664	152
F10F2.13	199	33
F10F2.16	225	41
F10F2.1	7826	71
F10F2.2	4046	752
F10F2.3	1228	926
F10F2.4	2059	1143
F10F2.7	1854	985
F10F2.8	1787	1060
F10F2.9	1663	639
F10G2.10A	618	493
F10G2.10B	423	298
F10G2.3	1456	186
F10G2.4	528	332
F10G2.6A	776	20
F10G2.6B	966	435
F10G2.7	2025	1257
F10G2.8	1020	263
F10G2.9	549	411
F10G7.10A	6274	5552
F10G7.10B	5839	1585
F10G7.10C	5546	1585
F10G7.1.1	2535	220
F10G7.11	507	263
F10G7.1.2	2552	237
F10G7.12	503	136
F10G7.2	3163	391
F10G7.3	1030	493
F10G7.4	2135	1440
F10G7.5A	1508	70
F10G7.5B	1605	167
F10G7.6	1306	925
F10G7.7	1083	818
F10G7.8.1	1654	1115
F10G7.8.2	1710	1171
F10G7.9A	2479	345
F10G7.9B	2496	362
F10G8.10	146	22
F10G8.11	219	35
F10G8.12	198	57

F10G8.1A	1093	703
F10G8.1B	382	3
F10G8.2	785	459
F10G8.3.1	1454	81
F10G8.3.2	1781	408
F10G8.4A	1460	150
F10G8.4B	1218	150
F10G8.5	1100	380
F10G8.6	1105	155
F10G8.7.1	1112	42
F10G8.7.2	919	42
F10G8.8A	3278	1247
F10G8.8B	3250	1247
F10G8.9A	824	392
F10G8.9B	1324	413
F11A10.1A	4222	429
F11A10.1B	4216	455
F11A10.1C	4075	2597
F11A10.3A	1878	1400
F11A10.3B	376	58
F11A10.4A	5285	1232
F11A10.4B	5291	1232
F11A10.5	1881	413
F11A10.6A	1375	486
F11A10.6B.1	1061	172
F11A10.6B.2	1114	225
F11A10.7	1270	1056
F11A10.8	1058	757
F11A10.9	120	30
F11A1.3A	3683	229
F11A1.3B	3479	25
F11A1.3C	2192	644
F11A1.3D	3901	447
F11A3.1.1	1729	1039
F11A3.1.2	1764	1074
F11A3.2A	2056	754
F11A3.2B	1939	637
F11A5.10	1573	104
F11A5.1	1029	711
F11A5.12	1006	584
F11A5.13	564	203
F11A5.15	626	305
F11A5.17	610	202
F11A5.18	542	67

F11A5.2	993	675
F11A5.3	606	278
F11A5.4	612	206
F11A5.5A	1108	144
F11A5.5B	1188	224
F11A5.7	1083	253
F11A5.8	1993	90
F11A5.9	1871	695
F11A6.1A.1	2303	1628
F11A6.1A.2	2498	1626
F11A6.1B	2720	620
F11A6.2	1312	222
F11C1.10	270	108
F11C1.12	191	53
F11C1.13	142	48
F11C1.15	183	30
F11C1.1	715	393
F11C1.2	773	43
F11C1.3	1844	588
F11C1.4	906	592
F11C1.5A.1	5492	4920
F11C1.5A.2	5505	4933
F11C1.5A.3	5534	4962
F11C1.5B.1	4156	849
F11C1.5B.2	4169	862
F11C1.5B.3	4198	891
F11C1.5C.1	2441	1869
F11C1.5C.2	2454	1882
F11C1.5C.3	2483	1911
F11C1.5D.1	5534	4962
F11C1.5D.2	5547	4975
F11C1.5D.3	5576	5004
F11C1.5E.1	3013	849
F11C1.5E.2	3026	862
F11C1.5E.3	3055	891
F11C1.6A	2569	323
F11C1.6B.1	2465	227
F11C1.6B.2	2333	95
F11C1.6B.3	2350	104
F11C1.7A	399	169
F11C1.7B	786	430
F11C1.7C	630	274
F11C3.1	1296	19
F11C3.2	1797	696

F11C3.3.1	6206	775
F11C3.3.2	6071	775
F11C3.3.3	6264	833
F11C7.10	454	52
F11C7.1	1269	827
F11C7.2	491	290
F11C7.3A	1329	42
F11C7.3B	1486	42
F11C7.4	5420	4703
F11C7.5	1175	85
F11C7.6A	695	161
F11C7.6B	435	38
F11C7.7	431	186
F11D11.11	693	453
F11D11.12	547	274
F11D11.14	855	581
F11D11.1	861	554
F11D11.5	831	188
F11D11.6	426	237
F11D11.7	735	220
F11D11.8	969	811
F11D5.12	199	22
F11D5.15	139	25
F11D5.17	286	176
F11D5.1A	2824	1903
F11D5.1B	1230	309
F11D5.1C	2544	1623
F11D5.21	245	111
F11D5.22	167	61
F11D5.24	280	138
F11D5.25	150	70
F11D5.27	254	77
F11D5.29	136	29
F11D5.30	320	165
F11D5.31	217	49
F11D5.35	145	6
F11D5.3A	2685	1369
F11D5.3B.1	2592	1276
F11D5.3B.2	2731	1415
F11D5.5	1149	662
F11D5.7	1760	1229
F11D5.9	213	68
F11E6.10	535	278
F11E6.1A	1603	1312

F11E6.1B	1617	1043
F11E6.1C	1864	1560
F11E6.1D	1578	1287
F11E6.2	380	71
F11E6.3.1	1203	16
F11E6.3.2	1308	121
F11E6.4A	550	67
F11E6.4B	360	67
F11E6.5	1039	72
F11E6.6	759	161
F11E6.7	3191	1759
F11E6.8A	1808	445
F11E6.8B	1559	96
F11E6.8C	743	145
F11E6.9	633	236
F11F1.1A	1928	133
F11F1.1B	1763	133
F11F1.4	723	412
F11F1.5	741	440
F11F1.6	743	524
F11F1.7	432	93
F11G11.11	1057	25
F11G11.12	978	765
F11G11.13	530	80
F11G11.2	739	115
F11G11.3	777	108
F11G11.4	516	264
F11G11.5.1	994	380
F11G11.5.2	773	380
F11G11.7	2005	85
F11G11.8	345	77
F11G11.9	885	393
F11H8.1.1	1387	432
F11H8.1.2	1660	239
F11H8.2	1649	93
F11H8.3	921	394
F11H8.4A	4504	3648
F11H8.4B	4510	3648
F11H8.6	149	51
F11H8.7	149	66
F12A10.4	1968	304
F12A10.5	464	62
F12A10.7	412	89
F12A10.8	2065	1052

F12A10.9	391	68
F12B6.1	6670	3732
F12B6.2A	1763	772
F12B6.2B	1629	779
F12B6.2C	1637	646
F12B6.2D	1901	772
F12B6.3	1423	391
F12D9.11	136	14
F12D9.12	198	53
F12D9.14	198	66
F12D9.15	145	21
F12D9.16	149	29
F12D9.1A	1213	747
F12D9.1B	1074	681
F12D9.2	492	59
F12D9.6	143	29
F12E12.11	941	620
F12E12.12	648	421
F12E12.1	514	35
F12E12.2	510	149
F12E12.3	594	392
F12E12.4	1100	107
F12E12.5	993	733
F12E12.6	487	313
F12E12.7	973	27
F12E12.8	1020	51
F12E12.9	939	41
F12F3.1A	1730	389
F12F3.1B	1614	273
F12F3.1C	1713	372
F12F3.1D	1714	373
F12F3.6	205	78
F12F3.8	201	7
F12F6.1	2841	450
F12F6.13	157	36
F12F6.15	338	172
F12F6.17	219	27
F12F6.18	354	41
F12F6.19	144	73
F12F6.20	194	80
F12F6.2	534	340
F12F6.3.1	1648	791
F12F6.3.2	1683	826
F12F6.5A	3565	3029

F12F6.5B	3351	2815
F12F6.5C	2190	1654
F12F6.6	3823	1293
F12F6.7.1	1507	568
F12F6.7.2	1532	593
F12F6.8	2171	1043
F12F6.9	1353	601
F13A2.1	429	291
F13A2.2	898	45
F13A2.3	1011	638
F13A2.5	564	455
F13A2.6	969	584
F13A2.8	990	465
F13A7.10	893	73
F13A7.1	1117	223
F13A7.11	652	184
F13A7.12	1035	575
F13A7.13	1053	216
F13A7.14	1083	587
F13A7.2	966	140
F13A7.3	981	721
F13A7.7	1221	134
F13B10.1A	3534	1009
F13B10.1B	2370	1555
F13B10.1C	3592	1023
F13B10.1D	1826	1011
F13B10.1E.1	3391	866
F13B10.1E.2	3548	1023
F13B10.2A.1	1293	349
F13B10.2A.2	1226	349
F13B10.2B	1324	581
F13B10.2C	1149	349
F13B10.2D.1	1001	182
F13B10.2D.2	934	182
F13B12.1	1684	1356
F13B12.12	147	22
F13B12.2	1697	1343
F13B12.4.1	1474	1024
F13B12.4.2	1560	1110
F13B12.5	794	3
F13B12.6	2287	222
F13B12.7	405	174
F13B6.2	1170	526
F13B6.3	1358	454

F13B9.10	220	43
F13B9.1A	5296	311
F13B9.1B	5243	311
F13B9.1C	5227	311
F13B9.2	738	45
F13B9.5.1	2629	422
F13B9.5.2	2640	433
F13B9.6	1409	684
F13B9.8A	573	277
F13B9.8B	629	333
F13C5.1.1	702	575
F13C5.1.2	873	575
F13C5.2	1657	337
F13C5.3A	1242	772
F13C5.5	798	216
F13C5.6A	1510	484
F13C5.6B	1534	484
F13D11.10	145	22
F13D11.1	1420	422
F13D11.13	134	34
F13D11.17	239	75
F13D11.18	326	141
F13D11.19	478	37
F13D11.20	194	77
F13D11.21	585	231
F13D11.2A	3022	2577
F13D11.2B	4283	2581
F13D11.3	632	230
F13D11.4.1	1199	613
F13D11.4.2	1249	663
F13D11.7	213	55
F13D12.10	852	257
F13D12.2	1104	190
F13D12.3	979	656
F13D12.4A.1	1789	25
F13D12.4A.2	1828	64
F13D12.4A.3	1840	76
F13D12.4B	1824	25
F13D12.5	1452	995
F13D12.6.1	2081	1019
F13D12.6.2	2036	974
F13D12.7A.1	2329	747
F13D12.7A.2	2414	832
F13D12.7A.3	2389	9

F13D12.7B	1091	64
F13D12.8	677	455
F13D12.9.1	1710	971
F13D12.9.2	1688	949
F13D12.9.3	1595	856
F13D2.1A	5062	397
F13D2.1B	5128	397
F13D2.2	1326	862
F13D2.3	1195	366
F13E6.1	895	108
F13E6.2	2268	382
F13E6.3	981	425
F13E6.4	1415	1066
F13E6.5	1113	134
F13E6.6	4340	1148
F13E9.10	690	136
F13E9.1	1989	502
F13E9.11A	1574	895
F13E9.11B	1548	869
F13E9.12	293	36
F13E9.13	841	8
F13E9.14	669	254
F13E9.15	394	69
F13E9.16	186	49
F13E9.2	153	62
F13E9.3	153	54
F13E9.4	1230	14
F13E9.5	1080	641
F13E9.6.1	1003	616
F13E9.6.2	1045	658
F13E9.9A	981	311
F13E9.9B	966	311
F13G11.1B.1	1872	442
F13G11.1B.2	1933	503
F13G11.1C.1	1764	334
F13G11.1C.2	1413	13
F13G11.1C.3	1693	263
F13G11.1D	1324	185
F13G11.2	654	31
F13G3.10B	364	73
F13G3.10C	262	30
F13G3.1	1754	708
F13G3.11	959	291
F13G3.12	970	197

F13G3.2	1011	125
F13G3.3A	1553	722
F13G3.3B	1449	618
F13G3.4	630	1
F13G3.5A.1	1015	575
F13G3.5A.2	1273	833
F13G3.5B.1	952	284
F13G3.5B.2	1210	542
F13G3.6	1074	354
F13G3.7A	1570	638
F13G3.7B.1	1561	629
F13G3.7B.2	1647	715
F13G3.8.1	1540	1333
F13G3.8.2	1580	1333
F13G3.9	560	57
F13H10.1	517	167
F13H10.2A	1288	594
F13H10.2B	1202	508
F13H10.3A	2248	96
F13H10.3B	2254	96
F13H10.3C.1	2215	63
F13H10.3C.2	2237	85
F13H10.4A	2815	593
F13H10.4B.1	2562	340
F13H10.4B.2	2589	367
F13H10.4C.1	2571	340
F13H10.4C.2	2598	367
F13H10.5	1383	687
F13H10.6A	324	134
F13H10.6B	363	120
F13H10.8A	516	57
F13H10.9	689	112
F13H6.12	142	4
F13H6.13	357	246
F13H6.15	209	28
F13H6.16	221	53
F13H6.19	209	78
F13H6.1A	3423	2124
F13H6.1B.1	2648	2197
F13H6.1B.2	2660	2209
F13H6.22	145	45
F13H6.26	221	37
F13H6.27	279	35
F13H6.3	1774	281

F13H6.4	1547	597
F13H6.5	1488	139
F13H6.8	201	53
F13H6.9	536	69
F13H8.10A	3688	1641
F13H8.10B	1955	1166
F13H8.10C.1	1803	1014
F13H8.10C.2	1884	1095
F13H8.11	1691	1262
F13H8.12A	435	234
F13H8.12B	421	228
F13H8.1B	871	451
F13H8.2	3068	429
F13H8.3.1	1257	129
F13H8.3.2	1227	129
F13H8.4	1140	561
F13H8.5A	1586	830
F13H8.5B	1808	1052
F13H8.6	1021	421
F13H8.7	1268	175
F13H8.8	1563	517
F13H8.9	1245	358
F14B4.1	2312	1200
F14B4.2A	1965	1329
F14B4.2B	2009	1373
F14B4.3	3746	2714
F14B6.1	1024	262
F14B6.2	2221	228
F14B6.3	1320	388
F14B6.4	1107	438
F14B6.5	2019	1716
F14B6.6A	1071	406
F14B6.6B	703	36
F14B8.13	145	16
F14B8.1A	2957	997
F14B8.1B	2677	717
F14B8.2	490	214
F14B8.3	1620	125
F14B8.4	392	73
F14B8.5A.1	2106	1265
F14B8.5A.2	2144	1303
F14B8.5B	2036	1195
F14B8.5C.1	2114	1273
F14B8.5C.2	2138	1297

F14B8.5C.3	2092	1251
F14B8.5C.4	2011	1170
F14B8.6	1540	980
F14B8.7	1774	1286
F14B8.9	217	40
F14D1.1	149	67
F14D12.13	148	63
F14D12.1A	2424	1117
F14D12.1B	2798	1117
F14D12.2.1	1527	516
F14D12.2.2	1501	516
F14D12.4A	1805	278
F14D12.4B	1693	241
F14D12.4C	1533	198
F14D12.5	2172	204
F14D12.6A	1405	256
F14D12.6B	1398	256
F14D12.7	148	60
F14D12.8	150	46
F14D2.11	744	481
F14D2.13A	1027	118
F14D2.13B	1065	744
F14D2.14	622	256
F14D2.17	1594	1
F14D2.19	1370	460
F14D2.2.1	610	243
F14D2.2.2	674	243
F14D2.4A	1025	85
F14D2.4B	810	85
F14D2.5	385	224
F14D2.6	1317	491
F14D2.7	496	324
F14D7.11	346	162
F14D7.12	401	1
F14D7.14	342	50
F14D7.1	531	62
F14D7.2	1516	784
F14D7.3	339	83
F14D7.5A	309	33
F14D7.5B	201	74
F14D7.6A	1516	668
F14D7.6B	630	23
F14D7.6C	686	104
F14D7.6D	1522	668

F14D7.8	846	615
F14D7.9	384	170
F14E5.1	1419	958
F14E5.2A.1	3811	1535
F14E5.2A.2	4019	1743
F14E5.2B.1	3805	1535
F14E5.2B.2	4013	1743
F14E5.3	1363	60
F14E5.4.1	1305	520
F14E5.4.2	1383	598
F14E5.5	1044	663
F14E5.6	1331	730
F14E5.8	414	192
F14F11.1A	1661	233
F14F11.1B	1941	513
F14F11.1C	1804	376
F14F11.1D	1727	299
F14F11.1E	1722	294
F14F11.1F	1721	293
F14F11.1G	2082	654
F14F11.1H	1999	513
F14F11.2	508	61
F14F3.10	202	62
F14F3.1A	1368	498
F14F3.1B	810	607
F14F3.1C	1818	41
F14F3.2	2309	1084
F14F3.3	1534	316
F14F3.4	270	152
F14F3.5	477	195
F14F3.6	149	44
F14F3.8	428	249
F14F4.1	1197	197
F14F4.3A	4649	2439
F14F4.3B	4730	2520
F14F7.1	1117	190
F14F7.2	1554	468
F14F7.3	1672	489
F14F7.4	911	15
F14F7.5	2766	56
F14F7.7	501	82
F14F8.10	1134	920
F14F8.1	1050	418
F14F8.11	1149	889

F14F8.14	204	10
F14F8.15	270	41
F14F8.3	996	659
F14F8.4	981	529
F14F8.5	888	186
F14F8.6	1158	897
F14F8.7	960	385
F14F8.8	265	33
F14F8.9	594	138
F14F9.1	1011	86
F14F9.2	844	680
F14F9.3	2599	1000
F14F9.4	2852	1238
F14F9.5	1162	922
F14F9.6	540	420
F14F9.7	1005	137
F14F9.8	406	79
F14H12.1	1051	138
F14H12.11	202	30
F14H12.12	151	8
F14H12.13	151	8
F14H12.14	202	30
F14H12.16	146	21
F14H12.17	500	30
F14H12.2	936	10
F14H12.3	883	285
F14H12.4A	1676	1384
F14H12.4B	1618	1390
F14H12.6	381	2
F14H12.7	359	62
F14H12.8	960	145
F14H12.9	288	117
F14H3.10	1517	858
F14H3.1	1008	682
F14H3.12	495	269
F14H3.14	144	53
F14H3.15	291	188
F14H3.2	1330	1106
F14H3.3	1024	298
F14H3.4	957	135
F14H3.5	946	55
F14H3.6	1038	136
F14H8.1A	1414	436
F14H8.1B	1386	408

F14H8.1C	1175	197
F14H8.2	939	170
F14H8.4	699	273
F14H8.5	705	82
F14H8.6A	2324	874
F14H8.6B	2574	1079
F14H8.6C	2201	751
F14H8.8	267	16
F15A2.1A	971	114
F15A2.1B.1	990	10
F15A2.1B.2	958	101
F15A2.2	1953	948
F15A2.3	1154	492
F15A2.4	1014	608
F15A2.5	649	177
F15A2.6A	3059	1952
F15A2.6B	2508	1854
F15A4.10	384	159
F15A4.1	1098	710
F15A4.11	570	269
F15A4.12.1	477	72
F15A4.12.2	488	83
F15A4.13	1054	46
F15A4.3	1089	840
F15A4.4	978	373
F15A4.5	889	404
F15A4.6	523	375
F15A4.7	963	410
F15A4.8A	2522	1176
F15A4.8B	2612	1425
F15A4.8C	1497	1176
F15A4.9	1226	444
F15A8.10	209	14
F15A8.12	141	17
F15A8.19	177	48
F15A8.4	387	139
F15A8.5A	1603	836
F15A8.5B	1429	422
F15A8.5C	1420	422
F15A8.5D	1367	600
F15A8.6	1979	1189
F15A8.9	145	24
F15B10.1A	1181	270
F15B10.1B	1080	169

F15B10.2A	3299	2783
F15B10.2B	2520	2004
F15B10.3A	695	151
F15B10.3B	640	96
F15B9.10A	1280	731
F15B9.10B	1123	731
F15B9.11	330	20
F15B9.12	289	138
F15B9.13	168	19
F15B9.15	187	9
F15B9.1	644	383
F15B9.2	714	371
F15B9.4	3728	288
F15B9.5A	1096	477
F15B9.5B.2	513	67
F15B9.6	1569	682
F15B9.7	8061	2497
F15B9.8.1	654	389
F15B9.8.2	678	413
F15B9.9	1388	767
F15C11.1	2843	1341
F15C11.2A	1810	1191
F15C11.2B	1756	1137
F15C11.2C	1839	1191
F15C11.5	208	55
F15D3.1A	11184	5087
F15D3.1B	1088	448
F15D3.1C	10506	4409
F15D3.1D	7707	1610
F15D3.1E	4893	4253
F15D3.1F	822	182
F15D3.1G.1	732	92
F15D3.1G.2	938	282
F15D3.1H	11151	5054
F15D3.1I	10473	4376
F15D3.1J	7674	1577
F15D3.2	1146	92
F15D3.4	2475	153
F15D3.5	295	120
F15D3.6	989	261
F15D3.7	865	292
F15D3.8	968	449
F15D4.1	5235	170
F15D4.2	619	119

F15D4.3	373	37
F15D4.4	1893	311
F15D4.5	1606	1055
F15D4.6.1	518	161
F15D4.6.2	536	179
F15D4.8	581	85
F15E11.10	861	40
F15E11.12A	544	222
F15E11.12B	502	86
F15E11.13	456	228
F15E11.15A	778	54
F15E11.15B	643	61
F15E11.2	903	69
F15E11.3	948	590
F15E11.4	1232	401
F15E11.5	786	330
F15E6.10	497	261
F15E6.12	232	123
F15E6.1	5569	99
F15E6.2A	1452	537
F15E6.2B	1431	537
F15E6.3	509	145
F15E6.4	311	40
F15E6.6	3868	1782
F15E6.7A	966	793
F15E6.7B	981	789
F15E6.8	232	88
F15E6.9A	1962	1456
F15E6.9B	1959	1453
F15G9.1A	1074	210
F15G9.1B	772	1
F15G9.1C	984	123
F15G9.2	420	116
F15G9.3	603	183
F15G9.4A	15723	8611
F15G9.4B	15792	8611
F15G9.4C	894	332
F15G9.5	848	142
F15G9.6	534	224
F15H10.10	909	162
F15H10.12	281	96
F15H10.3A.1	771	380
F15H10.3A.2	765	374
F15H10.3A.3	775	384

F15H10.3B	697	306
F15H10.3C	697	306
F15H10.3D	770	379
F15H10.4	1252	549
F15H10.5	912	43
F15H10.7	2145	1075
F15H10.8	1135	15
F15H10.9	1203	609
F15H9.2	1056	788
F15H9.3	1050	571
F15H9.4	1068	861
F16A11.11	519	23
F16A11.1A	2547	451
F16A11.1B	2387	291
F16A11.2	1638	1232
F16A11.3A	5124	4430
F16A11.3B	4746	4052
F16A11.3C	3190	35
F16A11.3D	5352	4658
F16A11.5	2396	1908
F16A11.5A	2364	1867
F16A11.5B	2210	1713
F16A11.6	150	57
F16B12.1	2030	1274
F16B12.2	1284	446
F16B12.4	1243	269
F16B12.5	655	208
F16B12.6	4415	2750
F16B12.7	906	436
F16B12.8	1149	772
F16B3.1	3318	2739
F16B3.2	650	382
F16B3.3A	697	339
F16B3.3B	693	117
F16B4.1	1362	162
F16B4.11A	1323	214
F16B4.11B	420	214
F16B4.12A	1585	133
F16B4.12B	1695	117
F16B4.2A.1	1093	79
F16B4.2A.2	1117	103
F16B4.2B.1	1108	79
F16B4.2B.2	1132	103
F16B4.3	2361	1863

F16B4.4	405	42
F16B4.5A	305	132
F16B4.5B	401	168
F16B4.7	273	81
F16B4.8	2029	66
F16B4.9	1341	367
F16C3.1	1227	748
F16C3.2	1100	350
F16C3.3	1197	795
F16C3.4	1004	275
F16D3.1	1344	732
F16D3.2.1	2554	694
F16D3.2.2	2557	697
F16D3.4	3969	3446
F16D3.7	1516	594
F16D3.8	143	58
F16F9.11	144	42
F16F9.1	945	47
F16F9.2	4044	1018
F16F9.3A	498	226
F16F9.3B	748	234
F16F9.4	1416	347
F16F9.5	2365	1512
F16F9.7	150	53
F16F9.9	139	45
F16G10.1	331	97
F16G10.13	693	292
F16G10.14	974	228
F16G10.15	1750	605
F16G10.2	641	315
F16G10.3	617	347
F16G10.4	600	218
F16G10.5	632	57
F16G10.6	444	20
F16G10.9	670	220
F16H11.1	1691	1006
F16H11.3	1376	219
F16H11.4	576	347
F16H11.5	2010	1186
F16H6.10	1108	671
F16H6.1	1722	911
F16H6.2	537	82
F16H6.3	774	80
F16H6.4	630	260

F16H6.5A	682	531
F16H6.5B	679	69
F16H6.6	384	129
F16H6.7	624	240
F16H6.8	1308	508
F16H6.9	2068	675
F16H9.2A	1005	704
F16H9.2B	1062	761
F16H9.6	143	70
F17A2.10	954	202
F17A2.1	1356	483
F17A2.11	954	749
F17A2.13	1184	657
F17A2.3	1474	109
F17A2.4	450	277
F17A2.5	1071	23
F17A2.6	975	660
F17A2.8	954	574
F17A9.2	1809	1287
F17A9.3	920	159
F17A9.4	1598	1333
F17A9.5	1462	1177
F17A9.6	1123	234
F17A9.7	363	176
F17B5.10	699	224
F17B5.1A	2529	173
F17B5.1B	2574	155
F17B5.2	2069	1362
F17B5.3A	782	232
F17B5.3B	657	207
F17B5.4	848	552
F17B5.5	735	197
F17B5.6	1112	579
F17B5.8	542	112
F17B5.9	321	75
F17C11.10	3366	772
F17C11.11A	943	18
F17C11.11B	983	667
F17C11.12A	1848	863
F17C11.12B.1	1599	614
F17C11.12B.2	1680	695
F17C11.17	652	135
F17C11.1	775	9
F17C11.20A	114	10

F17C11.20B	148	74
F17C11.21	195	52
F17C11.22	832	596
F17C11.2	627	77
F17C11.3	1185	186
F17C11.4A	806	272
F17C11.4B	927	393
F17C11.5	685	529
F17C11.6.1	416	179
F17C11.6.2	467	230
F17C11.7A	1862	485
F17C11.7B	1814	345
F17C11.8.1	1385	340
F17C11.8.2	1635	590
F17C11.9A	1444	664
F17C11.9B.1	1424	644
F17C11.9B.2	1381	601
F17C11.9B.3	1422	642
F17C11.9C	1345	565
F17C8.11	144	23
F17C8.1	4068	1006
F17C8.2	926	68
F17C8.3	1222	390
F17C8.4.1	776	69
F17C8.4.2	769	62
F17C8.5	1044	26
F17C8.7	942	561
F17C8.9	1030	184
F17E5.1A	3356	1987
F17E5.1B	2333	964
F17E5.2	2143	251
F17E9.10	468	260
F17E9.1	1018	227
F17E9.11	734	407
F17E9.15	474	224
F17E9.18	224	26
F17E9.2	507	238
F17E9.3	445	101
F17E9.4	517	250
F17E9.5	597	116
F17E9.7	1047	568
F17E9.8	1278	1059
F17H10.1.1	1790	1344
F17H10.1.2	1839	1393

F17H10.2A	1035	532
F17H10.2B	913	410
F17H10.3A	1810	1306
F17H10.3B	1674	1170
F17H10.4	414	183
F18A1.10	414	205
F18A1.11	170	68
F18A11.2	1249	966
F18A1.1	3399	502
F18A11.3	431	157
F18A11.5A	1091	379
F18A11.5B	961	379
F18A12.1	2232	475
F18A12.2	850	304
F18A12.3	2064	1685
F18A12.4	2025	1260
F18A12.5	2168	341
F18A12.6	2213	1362
F18A12.7	2001	35
F18A12.8A	2883	483
F18A12.8B	2987	483
F18A1.2A.1	1898	1057
F18A1.2A.2	2026	1188
F18A1.2B.1	1800	925
F18A1.2B.2	1931	1056
F18A1.2C	1997	75
F18A1.3A	1154	349
F18A1.3B	1073	349
F18A1.3C	803	349
F18A1.3D	1156	349
F18A1.3E	976	252
F18A1.3F	1057	252
F18A1.3G	732	272
F18A1.3H	651	428
F18A1.3I	927	349
F18A1.3J	830	252
F18A1.3K	505	272
F18A1.3L	954	349
F18A1.3M	857	252
F18A1.3N	532	272
F18A1.4A	1771	1523
F18A1.4B	1715	1467
F18A1.5	2156	500
F18A1.6A	2376	1281

F18A1.6B.1	2389	1294
F18A1.6B.2	2507	1412
F18A1.7	907	666
F18A1.8	694	339
F18C12.1	12564	7980
F18C12.2A	7344	1537
F18C12.2B	7320	1537
F18C12.3	1714	857
F18C12.4	640	493
F18C5.10.1	1379	298
F18C5.10.2	1395	314
F18C5.1	1035	452
F18C5.2	3291	1371
F18C5.3	4795	4249
F18C5.4	966	336
F18C5.5	780	92
F18C5.6	1188	199
F18C5.8	1047	183
F18C5.9	420	234
F18E2.12	273	9
F18E2.1A	1442	833
F18E2.1B	1442	833
F18E2.2	2031	781
F18E2.3	3558	3041
F18E2.4	1008	185
F18E2.5A	1047	259
F18E2.5B	1209	155
F18E3.10	708	506
F18E3.11	404	52
F18E3.12	404	211
F18E3.1	969	726
F18E3.2	1110	743
F18E3.4B	1140	908
F18E3.5	1146	248
F18E3.7A	1027	355
F18E3.7B	502	261
F18E9.1	540	25
F18E9.2A	527	16
F18E9.2B	549	16
F18E9.3	1752	398
F18E9.4	1005	478
F18E9.5A	3623	1145
F18E9.5B	3617	48
F18E9.7A	1188	991

F18E9.7B	1190	714
F18E9.8	735	535
F18F11.1	737	129
F18F11.3A	4962	4790
F18F11.3B	4767	4595
F18F11.3C	4860	3376
F18F11.3D	5055	3571
F18F11.3E	4917	4745
F18F11.3F	4722	4550
F18F11.3G	4815	3376
F18F11.3H	5010	3571
F18F11.3I	522	350
F18F11.4	1837	121
F18F11.5	1969	401
F18G5.1	357	128
F18G5.2	1625	736
F18G5.3	1267	688
F18G5.4	2273	566
F18G5.5	873	710
F18G5.6	900	265
F18H3.1	749	93
F18H3.3A.1	3009	1614
F18H3.3A.2	3213	146
F18H3.3A.3	3153	86
F18H3.3A.4	3164	97
F18H3.3B.1	2643	146
F18H3.3B.2	2147	1322
F18H3.4	1919	500
F18H3.5A	1225	69
F18H3.5B	1417	934
F18H3.6	207	58
F19B10.10.1	2145	520
F19B10.10.2	2002	377
F19B10.11	1518	678
F19B10.1	1370	607
F19B10.13	729	126
F19B10.2	839	377
F19B10.4	1208	517
F19B10.5	942	52
F19B10.6	342	269
F19B10.7	954	615
F19B10.8	1023	694
F19B10.9	1237	853
F19B2.6	2777	1449

F19B2.7	849	123
F19B2.8	993	512
F19B6.10	174	45
F19B6.1A	2263	13
F19B6.1B	2266	17
F19B6.1D	2307	58
F19B6.2A	1386	328
F19B6.2B	1188	130
F19B6.3	1215	741
F19B6.4	2154	800
F19C6.1	2744	1397
F19C6.2A	1932	681
F19C6.2B	1390	543
F19C6.3	1290	1149
F19C6.4A	1565	1156
F19C6.4B	1417	1156
F19C6.5	821	431
F19C6.8	316	101
F19C7.1	1031	714
F19C7.2	1677	1523
F19C7.4	1685	976
F19C7.5	546	180
F19C7.7	1020	245
F19C7.8A	1621	768
F19C7.8B	1230	377
F19C7.8C	883	30
F19C7.8D	1312	459
F19C7.8E	1642	789
F19D8.1A	1236	529
F19D8.1B	1332	625
F19D8.1C	252	76
F19D8.2	684	543
F19D8.5	227	32
F19D8.7	135	17
F19D8.8	150	28
F19F10.10	2749	2026
F19F10.11A	3506	500
F19F10.11B	2650	500
F19F10.12	2083	1418
F19F10.1	729	416
F19F10.4	665	392
F19F10.5	657	333
F19F10.6	615	89
F19F10.7	665	489

F19F10.8	465	181
F19F10.9	2693	1849
F19G12.11	215	25
F19G12.12	430	57
F19G12.1	480	177
F19G12.3	348	30
F19G12.4	399	165
F19G12.5	999	9
F19G12.9	299	101
F19H6.1.1	1076	732
F19H6.1.2	1080	730
F19H6.2	1155	25
F19H6.3	2730	2316
F19H6.4	880	617
F19H6.6	624	206
F19H6.9	205	79
F19H8.1A	3836	2335
F19H8.1B	883	428
F19H8.2	994	19
F19H8.3	555	396
F19H8.4	2698	1717
F19H8.5	1971	680
F20A1.10	435	46
F20A1.13	213	25
F20A1.2	1306	212
F20A1.3	909	740
F20A1.4	1777	392
F20A1.6A	818	566
F20A1.6B	664	449
F20A1.6C	375	226
F20A1.7A	4714	38
F20A1.7B	5242	38
F20A1.7C	5613	38
F20A1.8	321	119
F20A1.9	1402	1181
F20B10.1	3682	599
F20B10.3.1	750	315
F20B10.3.2	817	382
F20B10.9	224	39
F20B4.6	1742	510
F20B6.1	501	293
F20B6.2	1895	465
F20B6.3	4416	3291
F20B6.4	519	378

F20B6.5	897	73
F20B6.6	438	190
F20B6.7	469	31
F20B6.8A	3520	875
F20B6.8B	3828	1140
F20B6.8C.1	2963	753
F20B6.8C.2	3023	813
F20C5.1A	2617	1648
F20C5.1B	2566	1597
F20C5.1C	2114	1145
F20C5.1D	2201	1648
F20C5.1E	2048	1079
F20C5.1F	2620	1651
F20C5.2A	2564	1581
F20C5.2B	3694	1539
F20C5.2C	1632	596
F20C5.2D	1437	401
F20C5.2E	3676	1581
F20C5.2F	1350	314
F20C5.3B	979	278
F20C5.3C	790	89
F20C5.3D	734	33
F20C5.4	1230	21
F20C5.5.1	2239	58
F20C5.5.2	2216	33
F20C5.6	1297	502
F20C5.7	991	494
F20D1.10.1	699	87
F20D1.10.2	1013	401
F20D1.16	137	28
F20D1.17	136	58
F20D1.1	896	314
F20D1.19	231	49
F20D1.20	141	27
F20D12.1A	3551	1499
F20D12.1B	3062	1010
F20D1.2	2179	576
F20D12.2	3509	202
F20D12.3	2263	349
F20D12.4.1	2495	825
F20D12.4.2	2558	888
F20D12.4.3	2583	913
F20D12.5	509	252
F20D12.6A	526	85

F20D12.6B	693	385
F20D12.7	477	307
F20D1.3	1560	231
F20D1.6	2912	1640
F20D1.7	2243	233
F20D1.8	1575	394
F20D1.9	1102	156
F20D6.10	1658	508
F20D6.11	1842	1460
F20D6.12	1542	862
F20D6.1	543	314
F20D6.2	918	631
F20D6.3	1020	734
F20D6.4A	1226	425
F20D6.4B	1119	425
F20D6.4C	1099	425
F20D6.4D	1328	527
F20D6.5	1305	128
F20D6.6	1038	121
F20D6.8	1677	288
F20D6.9	357	76
F20E11.12	1060	340
F20E11.17	216	106
F20E11.18A	348	52
F20E11.18B	327	52
F20E11.1	996	661
F20E11.2	933	313
F20E11.4	972	438
F20E11.6	1116	702
F20E11.7	1080	659
F20G2.10	558	21
F20G2.1	818	445
F20G2.2	803	182
F20G2.3A	1469	1039
F20G2.3B	849	419
F20G2.4	1238	983
F20G2.5	1525	1100
F20G2.6A.1	799	418
F20G2.6A.2	970	589
F20G2.6A.3	827	446
F20G2.6B	973	154
F20G4.1	5053	3875
F20G4.2	1679	1050
F20G4.3	6494	319

F20H11.1	1568	1127
F20H11.2	6383	418
F20H11.3	1605	59
F20H11.4	1662	1333
F20H11.5	1310	31
F21A10.1A	758	400
F21A10.1B	521	163
F21A10.1C	776	418
F21A10.2A.1	3479	481
F21A10.2A.2	3546	548
F21A10.2A.3	3649	651
F21A10.2B	3659	661
F21A10.2C	3567	569
F21A10.2D	3507	509
F21A10.2E	3702	704
F21A10.4	2015	977
F21A3.11	1598	824
F21A3.2	159	54
F21A3.3	1073	132
F21A3.4	746	434
F21A3.5	1753	1556
F21A3.6	711	510
F21A3.7A	2132	140
F21A3.7B	1502	816
F21A9.1	603	57
F21A9.2	1240	325
F21C10.10.1	780	123
F21C10.10.2	1040	383
F21C10.11A	275	60
F21C10.12	1050	851
F21C10.13	440	160
F21C10.16	225	58
F21C10.1	633	342
F21C10.17	606	170
F21C10.18	273	32
F21C10.3A	849	608
F21C10.3B	974	608
F21C10.4	725	281
F21C10.5	450	91
F21C10.6	426	172
F21C10.7	7900	3502
F21C10.8A	1244	591
F21C10.8B	1184	531
F21C10.9.1	1084	111

F21C10.9.2	1064	111
F21C3.10	132	3
F21C3.1A.1	1557	1125
F21C3.1A.2	1520	1125
F21C3.1B.1	1599	1167
F21C3.1B.2	1562	1167
F21C3.2	2138	2022
F21C3.3	726	234
F21C3.4A	1838	651
F21C3.4B	1814	627
F21C3.5	629	250
F21C3.6	614	177
F21C3.7	504	318
F21D12.1A.1	1527	505
F21D12.1A.2	1529	505
F21D12.1B.1	1420	402
F21D12.1B.2	1419	401
F21D12.1C.1	1484	468
F21D12.1C.2	1534	518
F21D12.1C.3	1486	468
F21D12.1D.1	1521	505
F21D12.1D.2	1523	505
F21D12.1E.1	1540	518
F21D12.1E.2	1542	518
F21D12.2	375	82
F21D12.3	2003	1204
F21D12.5	685	277
F21D5.1	2010	38
F21D5.2A	1320	438
F21D5.2B	1418	536
F21D5.2C.1	1418	536
F21D5.2C.2	1358	476
F21D5.3A.1	2324	2015
F21D5.3A.2	2418	2109
F21D5.3B	830	521
F21D5.3C.1	318	31
F21D5.3C.2	712	429
F21D5.3C.3	644	357
F21D5.4	1147	385
F21D5.5	1350	534
F21D5.6	1031	201
F21D5.7	1903	517
F21D5.8	471	50
F21D5.9	760	143

F21D9.1	1104	919
F21D9.11A	588	110
F21D9.11B	785	307
F21D9.2	1127	877
F21D9.3	171	39
F21D9.4A	977	132
F21D9.4B	629	215
F21D9.4C	829	132
F21D9.8	630	504
F21E9.2	517	29
F21E9.3	561	87
F21E9.4	521	270
F21E9.6	543	304
F21F12.1.1	593	168
F21F12.1.2	736	311
F21F12.3	259	130
F21F3.1.1	1149	106
F21F3.1.2	1106	106
F21F3.2	1412	587
F21F3.3	985	455
F21F3.4	1192	853
F21F3.5	1937	774
F21F3.6	1184	544
F21F3.7	918	214
F21F8.10	1207	455
F21F8.11	1830	273
F21F8.1	966	678
F21F8.2	767	77
F21F8.3.1	1243	820
F21F8.3.2	1253	830
F21F8.4.1	1240	845
F21F8.4.2	1338	943
F21F8.5	813	576
F21F8.6	778	259
F21F8.7	1240	240
F21F8.9	1044	193
F21G4.1	2335	716
F21G4.2	5056	2695
F21G4.3	1071	33
F21G4.4	1202	554
F21G4.5	989	611
F21G4.6	6185	5532
F21H11.2A	8793	5533
F21H11.2B	2277	1784

F21H11.3	1825	594
F21H12.10	246	44
F21H12.1	1446	40
F21H12.2	195	48
F21H12.4	2004	1454
F21H12.5	2482	1694
F21H12.6	4413	360
F21H12.7	802	496
F21H12.9	173	72
F21H7.10.1	1461	1043
F21H7.10.2	1471	1053
F21H7.12	661	351
F21H7.14	510	416
F21H7.1	722	90
F21H7.2.1	1556	338
F21H7.2.2	1804	586
F21H7.3	836	350
F21H7.4	884	293
F21H7.7	1056	319
F21H7.9	3379	724
F22A3.13	144	40
F22A3.15	195	63
F22A3.16	283	134
F22A3.17	251	147
F22A3.1A	2093	685
F22A3.1B	2335	927
F22A3.2	546	277
F22A3.3	1488	1200
F22A3.5	1146	232
F22A3.6A	548	250
F22A3.6B	645	3
F22A3.7	507	259
F22A3.9	300	127
F22B3.10	966	591
F22B3.1	397	103
F22B3.16	137	53
F22B3.17	256	48
F22B3.18	164	7
F22B3.19	147	61
F22B3.20	210	42
F22B3.4	2317	2077
F22B3.5A	899	459
F22B3.5B	869	459
F22B3.7	1140	993

F22B3.8	1870	1240
F22B5.10	773	319
F22B5.1	629	351
F22B5.2A	1139	473
F22B5.2B.1	1131	465
F22B5.2B.2	1113	447
F22B5.3	1276	296
F22B5.4.1	562	187
F22B5.4.2	506	131
F22B5.5	1051	842
F22B5.6	659	80
F22B5.7	4567	3152
F22B5.9	1911	37
F22B7.10	2146	516
F22B7.1	1047	846
F22B7.13	1690	716
F22B7.2A	370	117
F22B7.2B	453	104
F22B7.3	495	176
F22B7.4	257	18
F22B7.5A	1624	1216
F22B7.5B	1572	694
F22B7.6A	1976	407
F22B7.6B	1948	601
F22B7.7	2193	57
F22B7.9	956	550
F22B8.5	1499	718
F22B8.6A.1	1290	658
F22B8.6A.2	1315	683
F22B8.6B	1315	683
F22B8.7	1091	365
F22D3.10	189	43
F22D3.1A	2709	1316
F22D3.1B	2736	1343
F22D3.2A	2846	656
F22D3.2C	1578	336
F22D3.2D	2591	656
F22D3.2E	2582	647
F22D3.2F	1204	656
F22D3.2G	2603	656
F22D3.2H	1726	83
F22D3.2I	1578	336
F22D3.4	1343	748
F22D3.6	2023	1031

F22D3.7	141	39
F22D6.10	1108	58
F22D6.11	1323	783
F22D6.1	1321	268
F22D6.12.1	1462	344
F22D6.12.2	1518	400
F22D6.12.3	1577	459
F22D6.16	135	3
F22D6.2.1	1095	276
F22D6.2.2	1159	11
F22D6.3A	1811	914
F22D6.3B	693	317
F22D6.4.1	539	262
F22D6.4.2	656	379
F22D6.5A	2709	1087
F22D6.5B	2484	1087
F22D6.6	2151	93
F22D6.9	1331	750
F22E10.1	4085	5
F22E10.2	4086	3025
F22E10.3	4294	627
F22E10.5A	1185	740
F22E10.5B	1361	740
F22E10.6	235	43
F22E10.9	148	53
F22E12.10	145	11
F22E12.1	2644	2183
F22E12.13	155	56
F22E12.2	800	294
F22E12.3	914	413
F22E12.4A.1	2669	1914
F22E12.4A.2	2775	2020
F22E12.4B.1	1469	934
F22E12.4B.2	1575	1040
F22E12.4C	1887	1132
F22E12.4D.1	2606	934
F22E12.4D.2	2712	1040
F22E12.4E.1	2457	1702
F22E12.4E.2	2775	2020
F22E12.6	278	60
F22E12.8	143	44
F22E12.9	145	70
F22E5.1	1164	986
F22E5.11	954	591

F22E5.13.1	953	359
F22E5.13.2	1024	430
F22E5.16	1021	865
F22E5.21.1	652	359
F22E5.21.2	860	567
F22E5.2	519	147
F22E5.3	3360	1297
F22E5.6	862	354
F22E5.7	486	94
F22E5.8	979	765
F22E5.9	689	423
F22F1.1	878	223
F22F1.2	1014	396
F22F1.3	750	208
F22F4.1	1904	453
F22F4.2	1641	72
F22F4.3A	2120	1007
F22F4.3B	1942	790
F22F4.3C	2230	527
F22F4.5	844	115
F22F7.11	336	41
F22F7.1A	1480	641
F22F7.1B	1461	641
F22F7.2.1	1583	1110
F22F7.2.2	1479	1110
F22F7.3	1651	1299
F22F7.4	1602	304
F22F7.5	1335	953
F22F7.6A	1124	268
F22F7.6B	1007	268
F22F7.7.1	1289	374
F22F7.7.2	1378	463
F22G12.1	1173	423
F22G12.3	1039	861
F22G12.4A	3509	2960
F22G12.4B	2888	2339
F22G12.4C	2613	2064
F22G12.5A	7306	6007
F22G12.5B.1	4554	3255
F22G12.5B.2	4562	3263
F22G12.7	1344	19
F22H10.1	857	192
F22H10.3.1	399	136
F22H10.4	525	71

F22H10.5.1	1145	811
F22H10.5.2	1223	811
F22H10.6	720	1
F23A7.1	275	167
F23A7.3	825	319
F23A7.5	2150	140
F23B12.1	1094	299
F23B12.4A.1	1262	310
F23B12.4A.2	1299	347
F23B12.4B	553	86
F23B12.4C.1	656	310
F23B12.4C.2	693	347
F23B12.5	1791	1354
F23B12.6.1	1356	697
F23B12.6.2	1397	738
F23B12.6.3	1400	741
F23B12.7.1	2984	2154
F23B12.7.2	2969	2139
F23B12.8A.1	2999	2596
F23B12.8A.2	3003	2600
F23B12.8B	3028	2625
F23B12.9	557	19
F23B2.10	1182	169
F23B2.11.1	3349	824
F23B2.11.2	3361	824
F23B2.13	487	289
F23B2.3	1933	298
F23B2.4	3643	2053
F23B2.5A	691	44
F23B2.5B	645	31
F23B2.5C	571	23
F23B2.6	791	400
F23B2.7A	866	82
F23B2.7B	812	28
F23C8.1	1212	848
F23C8.12	246	6
F23C8.13	799	90
F23C8.3A	642	310
F23C8.3B	757	428
F23C8.4	1041	819
F23C8.5.1	922	469
F23C8.5.2	973	520
F23C8.6	794	129
F23C8.7	1325	1038

F23C8.8	1017	632
F23C8.9	826	67
F23D12.10	1843	78
F23D12.1	827	669
F23D12.2	4344	2706
F23D12.3	703	417
F23D12.4	669	59
F23D12.5	2784	73
F23D12.7	240	68
F23D12.8	552	298
F23F1.10	354	96
F23F1.1	896	638
F23F12.12	975	634
F23F12.13	1591	1121
F23F12.3	1678	1188
F23F12.6	1355	657
F23F12.8	2943	2065
F23F1.2	896	214
F23F12.9A	841	335
F23F12.9B	375	54
F23F1.3	1068	838
F23F1.4	1293	798
F23F1.5	1169	223
F23F1.6	1828	448
F23F1.7	598	186
F23F1.8A	1461	81
F23F1.8B	1356	324
F23F1.9	1413	1077
F23G4.1	569	73
F23H11.1	882	463
F23H11.2	2682	1034
F23H11.3.1	1244	56
F23H11.3.2	1276	88
F23H11.4A	3233	1581
F23H11.4B	2064	1581
F23H11.5.1	427	27
F23H11.5.2	487	87
F23H11.6	879	12
F23H11.7	895	746
F23H11.8A	2363	353
F23H11.8B	2040	718
F23H11.8C	2168	158
F23H11.9A	859	578
F23H11.9B.1	859	578

F23H11.9B.2	801	520
F23H12.1.1	622	202
F23H12.1.2	633	213
F23H12.16	183	45
F23H12.17	197	25
F23H12.2	740	105
F23H12.3A	603	115
F23H12.3B	574	201
F23H12.4A	1167	154
F23H12.5	2734	435
F23H12.6	3087	2076
F23H12.7A	549	335
F23H12.7B	501	287
F25A2.1	913	284
F25B3.1	2990	1730
F25B3.2	1233	423
F25B3.3A	2000	58
F25B3.3B	1997	58
F25B3.4	1234	179
F25B3.5A	1413	832
F25B3.6	2356	923
F25B4.1.1	1380	59
F25B4.11	250	163
F25B4.1.2	1409	88
F25B4.12	173	64
F25B4.13	144	58
F25B4.14	141	23
F25B4.16	216	73
F25B4.17	372	19
F25B4.2	1770	1194
F25B4.4	706	517
F25B4.5	2409	820
F25B4.6	1534	1016
F25B4.7	1285	531
F25B4.8A	449	214
F25B4.8B	687	469
F25B4.9	916	204
F25B5.1A	2955	1427
F25B5.1B	2979	1427
F25B5.2A.1	2674	1724
F25B5.2A.2	2576	1626
F25B5.2B.1	2680	1730
F25B5.2B.2	2582	1632
F25B5.3A	1461	924

F25B5.3B	1492	53
F25B5.3C.1	1521	65
F25B5.3C.2	1552	1015
F25B5.3D	1471	934
F25B5.3E	618	108
F25B5.4A.1	2652	308
F25B5.4A.2	2830	486
F25B5.4C.1	1914	308
F25B5.4C.2	2092	486
F25B5.5	1738	1284
F25B5.6A	2170	1646
F25B5.6B	1854	1330
F25B5.6C.1	1669	1145
F25B5.6C.2	1852	1328
F25B5.7A	1905	1604
F25B5.7B	576	442
F25B5.7C	1034	733
F25B5.7D	1156	761
F25C8.2A	1398	517
F25C8.2B	1131	250
F25C8.3A	9847	1062
F25C8.3B	9784	1062
F25C8.3C	9790	1041
F25C8.3D	9961	1062
F25C8.3E	9652	1062
F25C8.4	1950	1102
F25C8.5	1319	671
F25D1.10	148	26
F25D1.1A	2143	347
F25D1.1B	1736	825
F25D1.1C.1	1873	77
F25D1.1C.2	1746	835
F25D1.1C.3	1744	833
F25D1.2	1178	473
F25D1.3	758	260
F25D1.4	2559	1780
F25D1.5	1032	309
F25D1.8	153	22
F25D7.1.1	911	126
F25D7.1.2	929	144
F25D7.2	1405	890
F25D7.3A	2454	126
F25D7.3B	3267	126
F25D7.5	3711	3501

F25E2.1	1098	698
F25E2.2A	2023	1201
F25E2.2B	664	296
F25E2.3	1090	658
F25E2.4	1515	196
F25E2.5A	3096	298
F25E2.5B	3010	2360
F25E2.5C	2784	2109
F25E5.12	1017	248
F25E5.13	1047	894
F25E5.1	3548	276
F25E5.14	1032	943
F25E5.16A	1156	755
F25E5.16B	863	99
F25E5.2	1017	843
F25E5.3	1134	643
F25E5.4	1674	85
F25E5.5	1327	1003
F25E5.6A.2	1374	6
F25E5.6B.1	1717	1279
F25E5.6B.2	1278	6
F25E5.7	1153	692
F25E5.8A.1	778	453
F25E5.8A.2	1295	970
F25E5.8B.1	1017	350
F25E5.8B.2	1534	867
F25E5.9	360	38
F25F2.1A	1813	1021
F25F2.1B	1822	1021
F25F2.2A	13301	7568
F25F2.2B	6145	412
F25F2.3	202	53
F25F2.6	168	49
F25F6.1	2340	1585
F25F6.2	203	50
F25F6.4	207	6
F25F8.1	2072	98
F25F8.2	1329	692
F25G6.12	199	67
F25G6.1	2971	460
F25G6.13	209	53
F25G6.2	3638	3263
F25G6.3A	1797	896
F25G6.3B	2176	896

F25G6.4	1506	976
F25G6.5	858	19
F25G6.6	2017	198
F25G6.7A	1869	156
F25G6.7B	1952	130
F25G6.9	4312	105
F25H10.4	146	18
F25H10.6	211	26
F25H10.9	129	28
F25H2.10	1035	449
F25H2.12A	1441	103
F25H2.12B	1434	103
F25H2.13.1	3110	1801
F25H2.13.2	3124	1815
F25H2.14	226	42
F25H2.15	178	51
F25H2.1	989	39
F25H2.2	1979	14
F25H2.3	951	507
F25H2.4	702	365
F25H2.5.1	663	234
F25H2.5.2	623	194
F25H2.5.3	620	191
F25H2.6.1	2124	775
F25H2.6.2	2130	781
F25H2.7	1324	814
F25H2.8	1745	11
F25H2.9.1	855	534
F25H2.9.2	856	534
F25H5.10	186	7
F25H5.1A	1952	254
F25H5.1B	3166	553
F25H5.1C.1	2791	205
F25H5.1C.2	3065	479
F25H5.1D	1999	134
F25H5.1E	1498	463
F25H5.1F	2747	254
F25H5.2	699	611
F25H5.3A	2101	1644
F25H5.3B	2214	1757
F25H5.3C.1	2408	1951
F25H5.3C.2	2048	1591
F25H5.3D	2089	1632
F25H5.3E	3123	2666

F25H5.4A.1	2812	310
F25H5.4A.2	2800	310
F25H5.4B.1	2734	232
F25H5.4B.2	2729	227
F25H5.4B.3	2765	263
F25H5.4B.4	2722	232
F25H5.4B.5	2687	185
F25H5.5A	2457	49
F25H5.5B	906	63
F25H5.6.1	508	163
F25H5.6.2	733	437
F25H5.7	1496	84
F25H5.8	460	72
F25H5.9	127	5
F25H8.13	347	250
F25H8.15	196	27
F25H8.18	286	21
F25H8.1A	1040	388
F25H8.1B	1060	408
F25H8.20	259	61
F25H8.21	220	32
F25H8.2	1406	464
F25H8.23	140	8
F25H8.25	145	28
F25H8.3A	6453	567
F25H8.3B	6498	567
F25H8.3C	6953	1067
F25H8.5A	2390	1389
F25H8.5B	1356	950
F25H8.5C	2444	1443
F25H8.5D	1411	410
F25H8.5E	1306	305
F25H8.5F	949	386
F25H8.5G	1424	1018
F25H8.5H	1675	674
F25H8.5I	1678	677
F25H8.5J	1609	608
F25H8.5K	2512	1511
F25H8.5L	667	416
F25H8.5M	547	136
F25H8.5N	544	1
F25H8.5O	850	287
F25H8.5P	796	1
F25H8.5Q	468	1

F25H8.5R	1497	1150
F25H8.6	2251	1417
F25H8.7	620	121
F25H9.1	1080	159
F25H9.2	1209	72
F25H9.3	1059	512
F25H9.5A.1	1854	1039
F25H9.5A.2	1924	1109
F25H9.6	964	362
F25H9.7A	518	217
F25H9.7B	386	86
F26A10.10	146	47
F26A10.11	209	11
F26A10.1	200	50
F26A10.15	169	19
F26A10.16	215	27
F26A10.17	156	17
F26A10.19	221	24
F26A10.21	212	35
F26A10.2	1936	599
F26A10.23	341	46
F26A10.24	147	62
F26A10.25	224	29
F26A10.4	341	148
F26A10.6	225	142
F26A1.10	337	13
F26A1.11	780	522
F26A1.12	748	406
F26A1.13	1356	490
F26A1.15	660	156
F26A1.1	993	4
F26A1.2	1386	565
F26A1.3	1571	229
F26A1.4	779	563
F26A1.7	450	349
F26A1.8	1218	1030
F26A1.9	1035	703
F26A3.1	1073	830
F26A3.2A	604	312
F26A3.2B.1	494	202
F26A3.2B.2	460	160
F26A3.3	5212	4764
F26A3.4	1018	502
F26A3.5	954	488

F26A3.6	1464	658
F26A3.7	954	241
F26A3.8A	5026	4598
F26A3.8B	4773	4345
F26A3.8C	695	268
F26B1.1	553	264
F26B1.2A	1848	920
F26B1.2B	491	7
F26B1.2C.1	1784	856
F26B1.2C.2	1808	880
F26B1.2D	639	7
F26B1.2E	511	67
F26B1.3	1808	29
F26B1.4	972	305
F26B1.5	1176	2
F26B1.6	1013	721
F26B1.7	1165	789
F26B1.8	603	126
F26C11.1	1308	343
F26C11.2	865	196
F26C11.3A	3846	1976
F26C11.3B	3939	2069
F26C11.3C	3936	2066
F26C11.3D	3933	2063
F26C11.3F	3906	2036
F26C11.4	448	206
F26D10.10	1280	954
F26D10.11	690	508
F26D10.12A	529	266
F26D10.12B	211	34
F26D10.3.1	2078	1634
F26D10.3.2	2059	1634
F26D10.8	1035	76
F26D10.9A	1968	241
F26D10.9B	863	543
F26D11.10	1886	559
F26D11.1.1	768	200
F26D11.11A	3239	215
F26D11.11B	2761	215
F26D11.1.2	857	289
F26D11.13	917	509
F26D11.14	193	70
F26D11.17	148	5
F26D11.19	207	56

F26D11.2	1216	135
F26D11.4	744	453
F26D11.5	792	430
F26D11.6	599	76
F26D11.9	774	493
F26D12.101	222	13
F26D12.1A	3084	678
F26D12.1B	2560	154
F26D12.1C	3192	2321
F26D12.1D	1826	955
F26D12.1E	1612	144
F26D12.1F	1024	18
F26D12.1G	3027	678
F26D12.1H	2503	154
F26D12.1I	1555	144
F26D12.1J	3139	2245
F26D12.1K	2261	678
F26D12.1L	1794	154
F26D12.1M	1737	154
F26D12.1N	846	144
F26D12.1O	789	144
F26D12.1P	258	18
F26D2.10	3654	19
F26D2.1	1041	430
F26D2.11	1065	364
F26D2.12A	726	40
F26D2.12B	714	64
F26D2.12C	609	259
F26D2.13	797	77
F26D2.14	765	275
F26D2.15	840	584
F26D2.16	1907	1149
F26D2.2	1567	1158
F26D2.3A	1431	228
F26D2.3B	543	80
F26D2.3C	715	228
F26D2.4	999	283
F26D2.7	1026	872
F26D2.9	1128	927
F26E4.10A	3360	1967
F26E4.10B	3359	1967
F26E4.11	2190	673
F26E4.1	2526	1274
F26E4.12	568	109

F26E4.16	270	52
F26E4.17	142	65
F26E4.2	457	95
F26E4.3.1	1612	696
F26E4.3.2	1564	648
F26E4.4	1361	186
F26E4.5	1508	683
F26E4.6	391	85
F26E4.7A	2324	268
F26E4.7B	2117	268
F26E4.8A	1518	152
F26E4.8B	1520	154
F26E4.9.1	558	156
F26E4.9.2	644	242
F26E4.9.3	717	272
F26F12.12	139	49
F26F12.13	142	36
F26F12.15	148	45
F26F12.17	145	28
F26F12.1A	941	127
F26F12.1B	700	127
F26F12.2	844	43
F26F12.3A	3399	321
F26F12.3B	3650	394
F26F12.3C	2982	2154
F26F12.4	750	88
F26F12.5A	946	65
F26F12.5B	664	221
F26F12.6A	816	546
F26F12.6B	1201	920
F26F12.7	5685	5286
F26F12.8.1	267	55
F26F12.8.2	392	178
F26F2.10A	360	39
F26F2.10B	331	11
F26F2.11A	144	8
F26F2.11B	114	8
F26F2.1	2074	412
F26F2.13	237	16
F26F2.5	237	13
F26F2.6	1874	315
F26F2.7	2451	1455
F26F2.8	555	77
F26F4.10A.1	2316	269

F26F4.10A.2	2328	281
F26F4.10B.1	2279	269
F26F4.10B.2	2291	281
F26F4.10C	439	31
F26F4.1.1	1256	679
F26F4.11	603	84
F26F4.1.2	1295	718
F26F4.12	788	207
F26F4.1.3	1389	812
F26F4.13	619	48
F26F4.14	149	62
F26F4.2	579	168
F26F4.3	1071	486
F26F4.4.1	2194	1139
F26F4.4.2	1598	543
F26F4.5.1	1689	405
F26F4.5.2	1737	453
F26F4.6	1191	525
F26F4.7	3735	1545
F26F4.8	1091	414
F26F4.9A	879	197
F26F4.9B	1757	174
F26G1.10	733	83
F26G1.13	140	48
F26G1.1	3224	1760
F26G1.2A	632	360
F26G1.2B	556	279
F26G1.4.1	1174	1047
F26G1.4.2	1120	993
F26G1.5	746	282
F26G1.6	2532	2058
F26G1.9	610	22
F26G5.10	882	663
F26G5.1A	1776	1271
F26G5.1B	1779	1274
F26G5.2	1044	218
F26G5.4	1041	158
F26G5.5	1035	459
F26G5.9	3309	1012
F26H11.1	481	83
F26H11.2A	6741	1251
F26H11.2B	5107	1251
F26H11.2C	6732	1251
F26H11.2D	2598	1909

F26H11.2E	1479	790
F26H11.2F	1893	1204
F26H11.2G	1602	913
F26H11.2H	1788	934
F26H11.2I	5102	1251
F26H11.2J	802	268
F26H11.2K	5108	1251
F26H11.4	1494	228
F26H11.5	760	337
F26H11.6	938	524
F26H9.1	2278	960
F26H9.2	2040	347
F26H9.4	800	56
F26H9.5	1274	282
F26H9.6	1081	160
F26H9.7	1784	590
F26H9.8	4197	1264
F27B10.1	433	129
F27B10.2	188	49
F27B3.2	1410	562
F27B3.5	2860	92
F27B3.6	849	372
F27B3.7	514	128
F27B3.8	180	42
F27C1.11	4084	3134
F27C1.1	891	175
F27C1.2A	1054	550
F27C1.2B	1105	562
F27C1.4	546	271
F27C1.6.1	2171	1859
F27C1.6.2	2180	1868
F27C1.7A.1	861	239
F27C1.7A.2	943	321
F27C1.7A.3	896	274
F27C1.7A.4	942	320
F27C1.7A.5	914	292
F27C1.7B	949	327
F27C1.8	897	42
F27C8.1	1940	695
F27C8.2	1113	419
F27C8.4	497	1
F27C8.5	1838	375
F27C8.6.1	1518	1123
F27C8.6.2	1486	1123

F27D4.1	1831	107
F27D4.2A.1	1752	159
F27D4.2A.2	1749	159
F27D4.2B.1	1746	159
F27D4.2B.2	1743	159
F27D4.4A	1372	913
F27D4.5	1366	307
F27D4.6A.1	3724	2854
F27D4.6A.2	3685	2854
F27D4.6A.3	3650	2854
F27D4.6B	3738	2854
F27D4.7	733	80
F27D4.8	348	85
F27D9.12	269	99
F27D9.1A	2498	1531
F27D9.1B	360	138
F27D9.1C	2469	1741
F27D9.2	1651	801
F27D9.5	2470	1250
F27D9.6	1378	960
F27D9.7	2061	1663
F27D9.8A	1677	1466
F27D9.8B	1674	1466
F27E11.1	1738	156
F27E11.2A.1	1674	1045
F27E11.2A.2	1766	1091
F27E11.2A.3	1699	1070
F27E11.2B.1	1371	1045
F27E11.2B.2	1396	1070
F27E11.3A	2078	1390
F27E11.3B	1655	1390
F27E5.1	1269	132
F27E5.2	927	708
F27E5.3	1569	512
F27E5.4	864	530
F27E5.5	1379	240
F27E5.7	622	308
F27E5.8	1134	276
F28A10.10	552	23
F28A10.1	1037	15
F28A10.2	1501	829
F28A10.3	454	73
F28A10.5	882	34
F28A10.6	1336	679

F28A10.7	354	5
F28A10.9	960	766
F28A12.10	834	575
F28A12.1	1859	890
F28A12.2	681	210
F28A12.3	698	310
F28A12.4.1	1302	492
F28A12.4.2	1334	524
F28A12.5	189	49
F28A12.7	325	164
F28A12.8	201	63
F28A12.9	248	8
F28B1.1	1062	245
F28B12.1	623	480
F28B12.2A	2078	359
F28B12.2B	2010	270
F28B12.2C	1989	270
F28B12.2D	1809	90
F28B12.2F	2006	266
F28B1.2	3105	2210
F28B12.3.1	2219	790
F28B12.3.2	2215	786
F28B12.5	137	55
F28B12.6	744	367
F28B1.3	2550	396
F28B1.4	1206	243
F28B1.5	2313	1126
F28B1.6	1028	904
F28B1.8	990	444
F28B1.9	1074	930
F28B3.10	635	268
F28B3.1.1	4377	1319
F28B3.1.2	4602	1544
F28B3.4	1369	845
F28B3.5A	1595	1114
F28B3.5B	1986	105
F28B3.6	739	207
F28B3.7A	4040	2881
F28B3.7B	749	241
F28B3.8	3360	1953
F28B3.9	1436	799
F28B4.1	585	125
F28B4.2A	3162	378
F28B4.2B	3146	362

F28B4.3.1	6742	915
F28B4.3.2	6737	915
F28B4.7	264	67
F28C10.1	534	145
F28C10.3	1551	269
F28C10.4	480	356
F28C1.10	132	47
F28C1.12	140	18
F28C1.1	2619	1280
F28C12.1	1014	212
F28C12.2	1023	230
F28C12.5	1082	339
F28C12.7	1020	817
F28C1.2A	3147	1063
F28C1.3A	3024	179
F28C1.3B	3834	179
F28C1.3C	3770	2757
F28C1.3D	2943	2742
F28C6.10	536	259
F28C6.2	1796	207
F28C6.3	1532	1092
F28C6.4A.1	2347	177
F28C6.4A.2	2691	521
F28C6.4A.3	2356	186
F28C6.4B.1	2333	177
F28C6.4B.2	2677	521
F28C6.4B.3	2342	186
F28C6.5	851	593
F28C6.6.1	2410	374
F28C6.6.2	2422	386
F28C6.7A.1	469	222
F28C6.7A.2	482	235
F28C6.7A.3	656	409
F28C6.7B.1	505	340
F28C6.7B.2	692	527
F28C6.7C.1	472	222
F28C6.7C.2	659	409
F28C6.8A	669	294
F28C6.8B	669	294
F28C6.9A	966	547
F28C6.9B	884	465
F28D1.10	3679	45
F28D1.11	380	81
F28D1.1	1974	332

F28D1.20	149	58
F28D1.2	1225	412
F28D1.22	222	28
F28D1.3	702	175
F28D1.4	705	174
F28D1.5	793	189
F28D1.6	546	377
F28D1.7.1	516	89
F28D1.7.2	531	104
F28D1.8	1366	532
F28D1.9	2477	1893
F28D9.1	2187	90
F28D9.2A	1027	548
F28D9.2B	952	473
F28D9.4.1	652	65
F28D9.4.2	642	65
F28E10.10	326	136
F28E10.11	265	147
F28E10.12	147	27
F28E10.14	227	45
F28E10.15	150	5
F28E10.1A	4061	3319
F28E10.1B	3644	2902
F28E10.1C	3909	3167
F28E10.1D	4022	3280
F28E10.1E	582	72
F28E10.1G	627	116
F28E10.1H	3597	2855
F28E10.1I	4019	3277
F28E10.1J	4115	3373
F28E10.2A	798	202
F28E10.2B	1041	202
F28E10.4	1035	730
F28E10.8	265	13
F28F5.12	149	44
F28F5.14	165	10
F28F5.16	149	44
F28F5.3A	3307	1913
F28F5.3B	3021	2058
F28F5.3C	3535	2141
F28F5.6	634	227
F28F5.9	165	65
F28F8.1	1617	790
F28F8.13	486	111

F28F8.2	2075	1187
F28F8.4	1014	50
F28F8.5A	722	328
F28F8.5B	721	327
F28F8.6.1	1146	289
F28F8.6.2	1253	29
F28F8.7	1395	248
F28F8.8B	937	64
F28F8.9A	603	373
F28F8.9B	584	354
F28F8.9C	573	386
F28F9.1	2173	910
F28F9.15	142	57
F28F9.2	399	120
F28F9.3	323	173
F28F9.4	1452	673
F28F9.8	266	26
F28F9.9	215	28
F28G4.1	1659	1232
F28G4.2	1125	934
F28G4.3	1077	799
F28G4.4	1292	81
F28H1.1	1255	216
F28H1.2	664	230
F28H1.3.1	3459	2173
F28H1.3.2	3460	2174
F28H1.3.3	3472	2186
F28H1.4A	867	3
F28H1.4B.1	903	98
F28H1.4B.2	876	63
F28H1.5	405	68
F28H6.1A	2002	695
F28H6.1B	2381	695
F28H6.2	604	93
F28H6.3	1314	621
F28H6.4	3216	859
F28H6.6	2698	493
F28H6.7	228	51
F28H7.10A	2526	1328
F28H7.1	1029	171
F28H7.11	1011	783
F28H7.12	141	44
F28H7.2	855	606
F28H7.3	1268	497

F28H7.4	651	2
F28H7.6	1651	997
F28H7.7	1248	664
F28H7.8	1332	362
F28H7.9	1101	553
F29A7.1	1167	51
F29A7.3	453	310
F29A7.4	732	380
F29A7.6	643	36
F29A7.7	654	394
F29A7.8	672	250
F29B9.10	416	75
F29B9.1	1012	500
F29B9.11.1	413	29
F29B9.11.2	335	31
F29B9.12	533	412
F29B9.2A	3016	285
F29B9.2B	2979	840
F29B9.2C	3057	918
F29B9.4A	1348	237
F29B9.4B	1060	110
F29B9.4C	1387	276
F29B9.5	864	364
F29B9.6	1065	249
F29B9.7	583	115
F29B9.8.1	1391	758
F29B9.8.2	1874	1241
F29B9.9A	1037	251
F29B9.9B	704	53
F29C12.1A	1960	159
F29C12.1B	1954	159
F29C12.3A	4998	2085
F29C12.3B	5004	2091
F29C12.3C	2568	2013
F29C12.4	2478	1567
F29C12.5	1407	756
F29C12.6	288	126
F29C4.1A	2500	1367
F29C4.1B	2497	1360
F29C4.2	396	94
F29C4.6.1	1263	802
F29C4.6.2	1253	792
F29C4.7A.1	1706	24
F29C4.7A.2	2002	320

F29C4.7B.1	1696	24
F29C4.7B.2	1992	320
F29C4.7C	1637	24
F29C4.8A	2423	1438
F29C4.8B	2450	1465
F29C4.8C	2387	1402
F29C4.8D	2351	1366
F29C4.8E	2378	1438
F29C6.1B.2	636	172
F29D10.1	482	217
F29D10.3	975	301
F29D10.4	3541	3160
F29D11.1	14711	12307
F29D11.2	3819	3331
F29F11.1	1585	135
F29F11.17	150	35
F29F11.18	148	59
F29F11.19	633	172
F29F11.20	243	54
F29F11.2	1616	940
F29F11.3	1168	657
F29F11.4	2140	1934
F29F11.5A	1468	352
F29F11.5B	868	39
F29F11.5C	1072	84
F29F11.6A	1754	950
F29F11.6B	1754	950
F29F11.7	359	237
F29F11.8	359	13
F29G6.1	3641	61
F29G6.2	1126	927
F29G6.3A.1	2544	407
F29G6.3A.2	2463	407
F29G6.3B	5512	407
F29G6.3C.1	4587	407
F29G6.3C.2	4506	407
F29G6.3D.1	4541	361
F29G6.3D.2	4460	361
F29G6.3D.4	4534	354
F29G6.3D.5	4544	364
F29G6.3D.6	4518	338
F29G6.3D.7	4588	408
F29G6.3D.8	4532	352
F29G6.3E	3776	2128

F29G6.3F	5560	407
F29G6.5	1515	1030
F29G9.17	150	63
F29G9.18	1542	25
F29G9.2A	1828	11
F29G9.2B	1791	79
F29G9.3	613	143
F29G9.4A	1612	209
F29G9.4B	1807	404
F29G9.5	1484	81
F29G9.6A	1475	52
F29G9.6B	1044	613
F29G9.7	918	59
F30A10.10	4142	3116
F30A10.11	276	19
F30A10.12	576	424
F30A10.14	435	45
F30A10.15	480	131
F30A10.16	200	45
F30A10.2	980	466
F30A10.3.1	1367	857
F30A10.3.2	1401	891
F30A10.4	1461	219
F30A10.5A	1154	617
F30A10.5B.1	1154	617
F30A10.5B.2	1252	715
F30A10.5B.3	1296	759
F30A10.6	1931	1614
F30A10.8A	1545	1345
F30A10.8B	1654	104
F30A10.9	861	260
F30B5.11	813	644
F30B5.1	985	43
F30B5.4A	1631	88
F30B5.4B	1816	273
F30B5.4C	1288	534
F30B5.6	894	138
F30B5.7	1143	626
F30F8.10A	745	14
F30F8.10B	708	527
F30F8.1	2237	1721
F30F8.2	1905	902
F30F8.3	1007	91
F30F8.5A	928	164

F30F8.5B	1250	164
F30F8.8.1	2097	1657
F30F8.8.2	2253	80
F30F8.8.3	2294	1854
F30F8.9A	1161	261
F30F8.9B.1	1161	307
F30F8.9B.2	1162	308
F30H5.1	3416	460
F30H5.2	378	91
F30H5.3	5324	4880
F30H5.5	402	112
F31A3.2	720	372
F31A3.3	823	171
F31A3.4	720	372
F31A3.5	2593	649
F31A9.3A	1074	482
F31A9.3B	1050	226
F31B12.1A	5938	2377
F31B12.1B	5909	2339
F31B12.1C	5887	2339
F31B12.1D	6134	2564
F31B12.1E	5939	2369
F31B12.1F	5963	2393
F31B12.3A	4884	809
F31B12.3B	4815	740
F31B12.3C	3671	3402
F31B12.3D	3635	809
F31B12.3E	5264	809
F31B12.4	452	256
F31B12.7	221	62
F31B12.9	142	40
F31B9.1	1200	923
F31B9.2	819	104
F31B9.3	444	133
F31B9.4	546	187
F31B9.5	147	50
F31C3.11	153	51
F31C3.13	150	10
F31C3.15	334	10
F31C3.17	154	33
F31C3.1	799	129
F31C3.2A	2508	196
F31C3.2B	2517	196
F31C3.3	6875	6347

F31C3.4	1306	564
F31C3.5	595	387
F31C3.6A	2520	601
F31C3.6B	1595	292
F31C3.7	1754	1357
F31C3.8	1754	1357
F31C3.9	3509	249
F31D4.1	1046	586
F31D4.2	1940	1269
F31D4.3	1488	145
F31D4.4	1234	282
F31D4.5A	1713	82
F31D4.5B	1560	82
F31D4.6	1012	753
F31D4.7	1686	140
F31D4.8	749	62
F31D4.9	389	109
F31D5.1	1374	693
F31D5.2.1	1473	104
F31D5.2.2	1486	117
F31D5.3A	3519	2251
F31D5.3B	3567	2251
F31D5.3C	1915	1271
F31D5.3D	2660	1265
F31D5.4	3025	1208
F31D5.5	5564	1675
F31D5.6	242	38
F31D5.7	846	27
F31E3.1	1282	666
F31E3.12	387	22
F31E3.2A	1445	818
F31E3.2B	1584	818
F31E3.2C	1765	1520
F31E3.3	1162	703
F31E3.4	3724	533
F31E3.5.1	1537	1116
F31E3.5.2	1548	1127
F31E8.10	205	70
F31E8.11	145	63
F31E8.12	148	40
F31E8.18	279	131
F31E8.2A	1806	846
F31E8.2B	1812	846
F31E8.3	696	328

F31E8.4	806	248
F31E8.5	1455	739
F31E8.7	283	40
F31E8.9	491	152
F31E9.2	900	753
F31E9.4	1196	518
F31E9.6	1063	79
F31F4.1	1065	213
F31F4.11	1114	852
F31F4.12	1232	153
F31F4.13	978	201
F31F4.14	990	753
F31F4.15	1136	161
F31F4.16	996	767
F31F4.17	1158	852
F31F4.18	993	266
F31F4.2	864	167
F31F4.4	1413	1260
F31F4.6	984	245
F31F4.7	1716	182
F31F4.8	870	495
F31F4.9	993	266
F31F6.14	149	52
F31F6.2	1489	29
F31F6.3	858	18
F31F6.4A	527	196
F31F6.4B	707	463
F31F6.5	2935	1159
F31F6.6	1924	584
F31F6.7	1272	505
F31F7.1A	1556	1255
F31F7.1B.1	1571	1368
F31F7.1B.2	1581	557
F31F7.2	2217	845
F31F7.4	145	3
F31F7.6	220	73
F31F7.7	281	51
F31F7.8	295	26
F31F7.9	414	168
F32A11.1	1297	635
F32A11.2	1645	1251
F32A11.3	1217	879
F32A11.6	1437	231
F32A11.7	2130	334

F32A5.10	3224	50
F32A5.1A	2268	1834
F32A5.1B	1979	1545
F32A5.2A	3208	124
F32A5.2B	2785	124
F32A5.3	1812	796
F32A5.4A.1	896	372
F32A5.4A.2	1264	740
F32A5.4B	692	174
F32A5.5A	1026	387
F32A5.5B.1	988	349
F32A5.5B.2	1006	367
F32A5.6	1014	5
F32A5.8	774	542
F32A5.9	441	121
F32A6.10	443	274
F32A6.2	2042	208
F32A6.3A	2800	522
F32A6.3B	2987	522
F32A6.3C	2867	589
F32A6.4A	2137	1494
F32A6.4B	2166	1523
F32A6.4C	375	7
F32A6.5A	1346	766
F32A6.5B	1413	833
F32A6.5C	1464	884
F32A6.5D	1380	800
F32A7.3A	1612	1073
F32A7.3B	1306	767
F32A7.4	1742	1306
F32A7.5A	3103	1655
F32A7.5B	2559	193
F32A7.5C	2897	1655
F32A7.5D	2926	1478
F32A7.6	1780	1038
F32A7.7	1047	157
F32A7.8	560	278
F32B4.1	1248	1039
F32B4.2	643	251
F32B4.4A	3222	1873
F32B4.4B.1	2549	800
F32B4.4B.2	2620	871
F32B4.4C	3101	1752
F32B4.5A	1035	807

F32B4.5B.1	326	98
F32B4.5B.2	728	401
F32B4.6	894	407
F32B4.8	2700	1796
F32B5.1	1284	159
F32B5.12	147	41
F32B5.13	146	43
F32B5.2	1044	165
F32B5.3	1041	360
F32B5.4	393	240
F32B5.6A	1718	1036
F32B5.6B	1892	1036
F32B5.6C	525	38
F32B5.6D.1	1506	824
F32B5.6D.2	1627	945
F32B5.6D.3	1657	190
F32B5.7.1	2746	2245
F32B5.7.2	2506	2245
F32B5.8	1038	135
F32B6.10	1689	181
F32B6.1	1676	713
F32B6.14	203	69
F32B6.2	2203	1792
F32B6.3	1466	373
F32B6.4.1	798	534
F32B6.4.2	796	534
F32B6.5	919	164
F32B6.8A	1779	713
F32B6.8B.1	1852	786
F32B6.8B.2	2090	1024
F32B6.9	1431	142
F32D1.10	2456	1978
F32D1.11	641	25
F32D1.1	2039	1654
F32D1.2.1	290	80
F32D1.2.2	305	94
F32D1.3	2424	612
F32D1.4	862	436
F32D1.5	1213	746
F32D1.6A	1191	133
F32D1.6B	1257	9
F32D1.7	1082	792
F32D1.8	327	151
F32D1.9.1	1729	303

F32D1.9.2	1797	371
F32D8.10	1426	548
F32D8.1	1042	59
F32D8.12A.1	1619	94
F32D8.12A.2	1653	128
F32D8.12B.1	1577	94
F32D8.12B.2	1611	128
F32D8.12C.1	1650	125
F32D8.12C.2	1508	846
F32D8.12C.3	1613	91
F32D8.12C.4	1622	123
F32D8.14A	960	83
F32D8.15	641	6
F32D8.2	1707	986
F32D8.3	738	214
F32D8.4	1255	348
F32D8.5A	1073	200
F32D8.5B	1093	220
F32D8.6	441	76
F32D8.7A	1618	581
F32D8.7B	1624	581
F32D8.8	1074	554
F32D8.9	862	151
F32E10.1	2482	162
F32E10.2	978	196
F32E10.3A	2803	1728
F32E10.3B	2863	88
F32E10.3C	1395	190
F32E10.3D	1335	260
F32E10.4	2534	1345
F32E10.5	1747	569
F32E10.6.1	1433	442
F32E10.6.2	1588	597
F32E10.8	405	44
F32E10.9	866	676
F32F2.1A	2793	94
F32F2.1B	3332	220
F32F2.1C	2877	178
F32F2.1D	2946	247
F32F2.1E	2741	1950
F32F2.1F	681	259
F32F2.1G	685	542
F32F2.1H	1251	829
F32F2.3	257	96

F32G8.1	897	5
F32G8.2	1704	1523
F32G8.3	390	133
F32G8.4	1404	90
F32G8.6	915	172
F32H2.10	584	218
F32H2.11	1122	294
F32H2.12	762	654
F32H2.1A	3069	2546
F32H2.1B	3022	2546
F32H2.2A	553	204
F32H2.2B	579	230
F32H2.2C	553	204
F32H2.3.1	2605	23
F32H2.3.2	2652	70
F32H2.4	1078	290
F32H2.5	8415	99
F32H2.6	616	256
F32H2.7	1321	308
F32H2.8	1149	107
F32H2.9	1671	38
F32H5.1	1218	203
F32H5.3A	649	134
F32H5.3B	575	69
F32H5.4	1651	296
F32H5.6A	999	478
F32H5.6B	273	120
F32H5.6C	228	75
F32H5.7A	1926	857
F32H5.7B	1819	750
F32H5.7C	1846	777
F32H5.7D	1588	519
F33A8.10	923	217
F33A8.12	658	90
F33A8.1	2819	1858
F33A8.2.1	522	52
F33A8.2.2	542	52
F33A8.3	1280	575
F33A8.4	1898	407
F33A8.5.1	604	215
F33A8.5.2	697	308
F33A8.6	969	244
F33A8.7	678	321
F33A8.9	1041	557

F33C8.1A	4221	2619
F33C8.1B	4110	2508
F33C8.2	1284	406
F33C8.3	953	177
F33C8.4	785	462
F33D11.10	1410	986
F33D11.11.1	1357	382
F33D11.11.2	1517	542
F33D11.12.1	1362	65
F33D11.12.2	1281	1
F33D11.13	147	27
F33D11.1	484	99
F33D11.2.1	1194	695
F33D11.2.2	1238	739
F33D11.3	938	63
F33D11.4	545	235
F33D11.5	1314	719
F33D11.6	996	460
F33D11.7	1086	65
F33D11.8	328	74
F33D11.9A	1080	438
F33D11.9B	2222	1076
F33D4.12	210	59
F33D4.13	147	68
F33D4.1A	2356	686
F33D4.1B	2353	686
F33D4.2A	8898	38
F33D4.2D	8730	1054
F33D4.2E	8793	7273
F33D4.2F	8827	1150
F33D4.2G	5440	1084
F33D4.2H	8823	1084
F33D4.3	708	233
F33D4.4.1	1420	137
F33D4.4.2	1421	138
F33D4.5	1245	58
F33D4.6A	1191	591
F33D4.6B	2124	591
F33D4.6C	2196	591
F33D4.7	436	91
F33D4.8	597	146
F33E11.1	1132	216
F33E11.2	1273	479
F33E11.3	2295	1857

F33E11.6A	1121	915
F33E11.6B	1658	916
F33E2.10	1008	875
F33E2.2A	3122	949
F33E2.2B	3101	949
F33E2.2C	2046	949
F33E2.2D	2899	726
F33E2.2E	954	478
F33E2.3	840	682
F33E2.4.1	871	500
F33E2.4.2	1057	500
F33E2.5.1	1172	958
F33E2.5.2	946	732
F33E2.6	2747	1732
F33E2.7	542	157
F33G12.2	980	727
F33G12.3	1393	634
F33G12.4.1	1530	300
F33G12.4.2	1528	300
F33G12.5	3151	253
F33G12.6A	2620	2116
F33G12.6B	2387	2121
F33G12.7	378	166
F33G12.8	198	73
F33G12.9	145	54
F33H1.1A	2759	744
F33H1.1B	2834	819
F33H1.1C	2451	436
F33H1.1D	2402	387
F33H1.1E	2382	367
F33H1.2	1127	942
F33H12.1	888	121
F33H12.2	1099	841
F33H12.4	1242	742
F33H12.5	954	446
F33H1.3	1149	582
F33H1.4	4688	3997
F33H1.5	1116	748
F33H1.6	398	18
F33H2.1.1	3142	1819
F33H2.1.2	3147	1819
F33H2.2	2610	985
F33H2.3	896	581
F33H2.5	6527	5583

F33H2.6	993	665
F33H2.7	1569	268
F33H2.8A	1056	354
F33H2.8B	619	281
F34D10.2	2181	1520
F34D10.4	2492	1369
F34D10.5	899	182
F34D10.6A	3808	1683
F34D10.6B.1	2371	249
F34D10.6B.2	2163	41
F34D10.8	262	81
F34D10.9	1562	383
F34D6.1	1525	174
F34D6.2	630	22
F34D6.3	1057	737
F34D6.4	1148	1008
F34D6.5	1005	841
F34D6.6	996	776
F34D6.7	264	44
F34D6.8	264	44
F34D6.9	312	162
F34H10.2	306	7
F34H10.3.1	1342	479
F34H10.3.2	1363	500
F34H10.3.3	1438	575
F34H10.4	1359	386
F34H10.5	427	254
F35A5.13	153	19
F35A5.1	7153	6869
F35A5.2	526	190
F35A5.3	1271	365
F35A5.4	1712	237
F35A5.5	662	381
F35A5.8A	1295	760
F35A5.8B	1307	139
F35A5.8C	1256	721
F35B12.10A	1498	644
F35B12.10B	771	80
F35B12.10C	1368	644
F35B12.12	147	55
F35B12.2	1440	403
F35B12.3	898	721
F35B12.4	804	309
F35B12.5A	1865	765

F35B12.5B	1210	689
F35B12.5C.1	1803	703
F35B12.5C.2	1831	731
F35B12.6	893	74
F35B12.7.1	475	274
F35B12.7.2	471	274
F35B12.8	825	451
F35B12.9	1150	877
F35B3.1	966	530
F35B3.3	342	119
F35B3.4	865	204
F35B3.5A	3809	707
F35B3.5B	2693	688
F35B3.5C	3815	707
F35B3.5D	1958	106
F35B3.5E	2251	502
F35B3.7	1886	3
F35B3.9	139	23
F35C11.1.1	502	142
F35C11.1.2	468	108
F35C11.2	1194	163
F35C11.4	1372	105
F35C11.5	1403	293
F35C11.6	783	79
F35C11.7	438	166
F35C12.2A	2054	904
F35C12.2B	787	373
F35C12.3A.1	1317	281
F35C12.3A.2	1453	417
F35C12.3B	635	187
F35C12.3C	1210	243
F35C5.11	563	192
F35C5.12	551	116
F35C5.1	609	323
F35C5.2	1055	607
F35C5.3	1304	942
F35C5.4	519	144
F35C5.5A	1258	336
F35C5.5B	1246	336
F35C5.6	1313	1004
F35C5.7	1159	929
F35C5.8.1	1164	320
F35C5.8.2	1195	351
F35C5.9	1266	888

F35C8.1	1083	926
F35C8.2	1253	162
F35C8.3	1754	356
F35C8.4	1317	697
F35C8.5	958	45
F35C8.6	895	144
F35C8.7A.1	2592	385
F35C8.7A.2	2701	494
F35C8.7B	2494	287
F35C8.7C.1	2598	385
F35C8.7C.2	2707	494
F35C8.8	816	147
F35C8.9	288	91
F35D11.10	825	522
F35D11.11A	5698	691
F35D11.11B	6094	691
F35D11.11C	6115	691
F35D11.11D.1	4922	1587
F35D11.11D.2	5362	2027
F35D11.1	485	114
F35D11.2A	1741	177
F35D11.2B	1819	255
F35D11.3.1	2009	8
F35D11.3.2	1964	8
F35D11.4.1	629	138
F35D11.4.2	663	172
F35D11.4.3	650	159
F35D11.5	724	44
F35D11.7	742	200
F35D11.8	781	230
F35D11.9	725	458
F35D2.1	1187	449
F35D2.11	291	151
F35D2.12	146	13
F35D2.13	138	30
F35D2.14	210	29
F35D2.16	279	13
F35D2.17	509	77
F35D2.2	1134	583
F35D2.3	1175	505
F35D2.4	2748	1560
F35D2.5A	3317	41
F35D2.5B	3158	531
F35D2.5C	2518	1515

F35D2.6	1727	383
F35D2.7	206	77
F35D6.1A	2309	207
F35D6.1B	388	206
F35E12.10	1601	520
F35E12.2A	1287	1022
F35E12.2B	404	112
F35E12.3	997	665
F35E12.5	1117	352
F35E12.6.1	1165	164
F35E12.6.2	1186	1062
F35E12.7A	2275	238
F35E12.7B	1609	238
F35E12.7C	1669	1471
F35E12.7D	1789	238
F35E12.8A	1604	1131
F35E12.8B	630	157
F35E12.9A	2157	353
F35E12.9B	1425	333
F35E12.9C	1370	278
F35E12.9D	1905	284
F35E2.2	816	46
F35E2.5	1813	1202
F35E2.6	2158	1741
F35E2.8	780	587
F35E2.9	1970	1528
F35E8.11	896	641
F35E8.12	1122	104
F35E8.13	1107	62
F35E8.1	804	130
F35E8.2.1	1124	528
F35E8.2.2	1165	569
F35E8.6	819	20
F35E8.7	867	68
F35E8.8	855	233
F35E8.9	747	15
F35F10.10	2082	213
F35F10.11	1506	385
F35F10.12.1	1549	1214
F35F10.12.2	1691	1356
F35F10.13	619	461
F35F10.1	961	165
F35F10.4	2071	951
F35F10.5	606	275

F35F10.8	990	416
F35F10.9	888	314
F35F11.1	1872	1193
F35F11.2	750	418
F35G12.10.1	1028	1
F35G12.10.2	1151	122
F35G12.11.1	506	70
F35G12.11.2	566	125
F35G12.12	1631	475
F35G12.1A	1475	748
F35G12.1B	1334	740
F35G12.2.1	1902	98
F35G12.2.2	2068	101
F35G12.2.3	2064	260
F35G12.3A	3607	2319
F35G12.3B	2370	124
F35G12.4A	2210	994
F35G12.4B	2201	994
F35G12.4C	2252	994
F35G12.5	1266	45
F35G12.6	1261	932
F35G12.7	712	239
F35G12.8	4953	181
F35G12.9	565	138
F35G2.11	196	16
F35G2.14	367	57
F35G2.16	147	67
F35G2.17	184	56
F35G2.19	136	55
F35G2.1A.1	2502	481
F35G2.1A.2	2650	114
F35G2.1B.1	2171	150
F35G2.1B.2	2316	295
F35G2.20	140	7
F35G2.2.1	715	57
F35G2.2.2	754	96
F35G2.3	522	39
F35G2.4	1738	1223
F35G2.5A	948	419
F35G2.9	135	36
F35G8.1	1371	374
F35G8.2	734	313
F35H10.10	4572	301
F35H10.14	146	35

F35H10.2	542	160
F35H10.3	576	485
F35H10.4.1	2742	2503
F35H10.4.2	2961	2499
F35H10.5	240	83
F35H10.6	584	160
F35H10.7.1	1611	170
F35H10.7.2	1906	465
F35H12.1	1119	842
F35H12.2A	2900	2552
F35H12.2B	2912	2564
F35H12.2C.1	1910	1562
F35H12.2C.2	2076	1728
F35H12.3	1468	1044
F35H12.4	2120	913
F35H12.5A	1204	621
F35H12.5B	1391	808
F35H12.6	610	78
F35H12.7	480	182
F35H8.1	494	244
F35H8.2	1228	653
F35H8.3	1534	138
F35H8.4	319	106
F35H8.5	2099	1071
F35H8.6	1724	119
F35H8.7	1407	1039
F36A2.10.1	573	389
F36A2.10.2	573	389
F36A2.11	866	366
F36A2.12	399	109
F36A2.13.1	9290	6381
F36A2.13.2	9276	6367
F36A2.14	1051	42
F36A2.1A	2380	1938
F36A2.1B	2376	1934
F36A2.1C	2394	1952
F36A2.1D	2400	1958
F36A2.1E	2028	1916
F36A2.2	1642	1445
F36A2.3	1225	325
F36A2.4	1856	307
F36A2.6.1	552	292
F36A2.6.2	847	587
F36A2.7.1	606	71

F36A2.7.2	605	71
F36A2.8	477	187
F36A2.9A	1968	340
F36A2.9B	2079	1311
F36A4.10	961	30
F36A4.1	315	68
F36A4.14	1256	237
F36A4.20A	286	107
F36A4.20B	333	132
F36A4.21	286	95
F36A4.2	556	76
F36A4.3	396	37
F36A4.4	450	97
F36A4.5A	472	180
F36A4.5B	228	89
F36A4.6	942	3
F36A4.7	6024	510
F36A4.8	560	167
F36D1.10	258	19
F36D1.12	268	26
F36D1.15	294	61
F36D1.1	992	721
F36D1.2	1080	83
F36D1.23	313	175
F36D1.3	990	736
F36D1.4	195	76
F36D1.5	253	76
F36D1.6	1069	733
F36D1.8	990	325
F36D1.9	395	137
F36D3.1	1512	916
F36D3.14	284	39
F36D3.16	1099	935
F36D3.2	1351	190
F36D3.3	1189	261
F36D3.4	1050	123
F36D3.5	3656	1623
F36D3.6	993	282
F36D3.8	973	409
F36D3.9	1022	652
F36D4.11	159	66
F36D4.1	530	118
F36D4.2	813	390
F36D4.3A	5872	220

F36D4.3B	5878	220
F36D4.3C	1938	399
F36D4.3E	1963	424
F36D4.3F	1590	51
F36D4.4	1536	704
F36D4.5A	1600	1002
F36D4.5B.1	1549	951
F36D4.5B.2	1676	1078
F36D4.6	405	41
F36D4.7	149	12
F36D4.9	206	26
F36F12.1	1616	1224
F36F12.2	1464	60
F36F12.3A	525	160
F36F12.3B	450	126
F36F12.4	542	306
F36F12.5	711	443
F36F12.6	720	435
F36F12.8	1152	917
F36F2.1A	613	161
F36F2.1B.1	634	182
F36F2.1B.2	833	381
F36F2.2	888	23
F36F2.3A	3620	1337
F36F2.3B	1325	472
F36F2.4	970	585
F36F2.5	2403	2024
F36F2.6	2419	717
F36F2.7	847	291
F36G3.1	3270	23
F36G3.2	1250	579
F36G3.3	562	192
F36G9.11	873	306
F36G9.12	2267	1870
F36G9.13	2754	96
F36G9.14	999	711
F36G9.15.1	363	251
F36G9.15.2	363	251
F36G9.18	129	19
F36G9.2	994	269
F36G9.3A	1503	1036
F36G9.3B	1029	800
F36G9.5	1040	558
F36G9.6	972	769

F36G9.8	1029	113
F36G9.9	1044	276
F36H1.10A	656	224
F36H1.10B	405	132
F36H1.10C	308	109
F36H1.11	288	113
F36H1.12	354	3
F36H1.1A.1	497	93
F36H1.1A.2	1523	127
F36H1.1B.1	1489	93
F36H1.1B.2	1523	127
F36H12.10	1197	384
F36H12.1	639	81
F36H12.17	1810	969
F36H12.2A	1165	874
F36H12.2B	1291	1000
F36H12.3	1024	37
F36H12.4	328	184
F36H12.5	629	49
F36H12.8	1029	540
F36H12.9	1143	378
F36H1.2A	4985	2057
F36H1.2B	4928	2057
F36H1.2C	5072	2057
F36H1.2D	4792	1949
F36H1.3	1664	1058
F36H1.4A	1911	18
F36H1.4B.1	1753	724
F36H1.4B.2	1687	658
F36H1.4C	1621	931
F36H1.4D.1	1831	1141
F36H1.4D.2	1765	1075
F36H1.4E	1648	619
F36H1.4F.1	1876	724
F36H1.4F.2	1810	658
F36H1.5A	683	414
F36H1.5B	659	390
F36H1.6	2866	2421
F36H2.1A	3804	187
F36H2.1B	3711	99
F36H2.1C	3795	187
F36H2.2A	1717	1078
F36H2.2B	1708	1069
F36H2.3A	4305	2074

F36H2.3B	4329	2098
F36H2.3C	3699	32
F36H2.3D	3696	1903
F36H2.3E	3273	32
F36H2.3F	3906	2113
F36H2.3G	3906	2098
F36H2.4	483	181
F36H2.5	1574	450
F36H5.10.2	454	266
F36H5.11	1585	878
F36H5.13	1378	442
F36H5.3A	2388	1609
F36H5.3B	2571	1609
F36H5.4	1020	419
F36H5.5A	1761	1353
F36H5.5B	1733	1325
F36H5.6	1245	383
F36H5.8	1315	641
F36H5.9	291	12
F36H9.1	1461	217
F36H9.2	828	105
F36H9.3	1292	36
F36H9.4	389	90
F36H9.5	1273	757
F36H9.6	1034	533
F36H9.7	468	143
F37A4.1.1	1659	995
F37A4.1.2	1656	992
F37A4.2.1	641	72
F37A4.2.2	689	119
F37A4.3	905	309
F37A4.4	3600	2266
F37A4.5.1	1049	30
F37A4.5.2	1046	30
F37A4.6	1170	306
F37A4.7A	3233	1434
F37A4.7B	3459	1660
F37A4.7C	3187	1388
F37A4.7D	3724	1925
F37A4.8	3308	1020
F37A4.9	1492	918
F37A8.1	552	146
F37A8.2	1185	1086
F37A8.4	619	80

F37A8.5	1030	29
F37B1.1	715	134
F37B12.1	1007	550
F37B12.11	288	156
F37B12.13	138	37
F37B12.2	2336	248
F37B12.3.1	1017	364
F37B12.3.2	1013	360
F37B12.6	379	249
F37B1.3	635	66
F37B1.4	711	86
F37B1.5	695	45
F37B1.6	684	86
F37B1.7	594	99
F37B1.8	665	61
F37B4.10	1034	253
F37B4.11	987	521
F37B4.13	993	684
F37B4.14	432	2
F37B4.1	996	796
F37B4.2	1681	1045
F37B4.3	1014	272
F37B4.4	990	254
F37B4.6	1008	269
F37B4.7	1647	1253
F37B4.8	1104	471
F37B4.9	1071	439
F37C12.10	472	98
F37C12.1	1042	295
F37C12.12	1586	1001
F37C12.13A	1414	27
F37C12.13B	595	27
F37C12.14	432	134
F37C12.17	1047	208
F37C12.18	782	87
F37C12.2.1	1357	245
F37C12.21	540	89
F37C12.2.2	1369	257
F37C12.2.3	1562	450
F37C12.3.1	597	54
F37C12.3.2	619	76
F37C12.4	377	61
F37C12.7	2835	118
F37C12.9.1	805	233

F37C12.9.2	823	251
F37C4.1	2034	932
F37C4.2	2150	325
F37C4.3	2128	987
F37C4.4A	950	713
F37C4.4B.1	826	589
F37C4.4B.2	1240	1003
F37C4.4C	740	503
F37C4.5A.1	1776	120
F37C4.5A.2	1826	170
F37C4.5B	1400	1073
F37C4.6A.1	1714	644
F37C4.6A.2	1753	683
F37C4.6B	526	169
F37C4.8A	1032	470
F37D6.11	224	67
F37D6.12	215	30
F37D6.1	3674	3183
F37D6.2A.1	1934	56
F37D6.2A.2	1923	45
F37D6.2B	1931	56
F37D6.2C.1	1940	56
F37D6.2C.2	1929	45
F37D6.3	510	283
F37D6.6	1907	949
F37E3.1	2739	1925
F37E3.2	1785	1212
F37E3.3	1320	932
F37F2.2.1	717	256
F37F2.2.2	477	256
F37F2.2.3	908	447
F37F2.3	649	147
F37H8.10	133	21
F37H8.13	1102	428
F37H8.1	942	326
F37H8.2	1971	760
F37H8.4	1065	510
F37H8.5	923	215
F37H8.6.1	216	126
F37H8.6.2	223	66
F37H8.7	228	79
F37H8.9	204	21
F38A1.10	828	595
F38A1.1	1580	1226

F38A1.11	900	380
F38A1.13	312	20
F38A1.14	1395	1153
F38A1.15	1283	1185
F38A1.4	1467	691
F38A1.5	1805	807
F38A1.6	467	305
F38A1.7A	1498	1035
F38A1.7B	1432	1004
F38A1.8	2548	1578
F38A3.1	1039	110
F38A3.2	1043	26
F38A5.11	1078	853
F38A5.13	2061	1345
F38A5.1A	1988	907
F38A5.1B	1930	849
F38A5.22	557	146
F38A5.2A	1817	1300
F38A5.2B.1	1811	1294
F38A5.2B.2	1982	1465
F38A5.3A	813	301
F38A5.3B	1299	59
F38A5.6	903	171
F38A5.7	681	84
F38A6.1A	2260	112
F38A6.1B	2102	1255
F38A6.1C	1862	1015
F38A6.2A	2759	573
F38A6.2B	2721	50
F38A6.3A	2646	1583
F38A6.3B	2652	1586
F38A6.3C	1973	31
F38A6.3D	2912	1276
F38A6.3E	2536	1473
F38A6.4	574	333
F38A6.5	632	211
F38A6.6	125	40
F38A6.8	297	140
F38A6.9	209	68
F38B2.1A.1	1931	1678
F38B2.1A.2	2039	1786
F38B2.1B	1973	1720
F38B2.1C.1	1845	1592
F38B2.1C.2	2039	1786

F38B2.1C.3	2034	1781
F38B2.1D	1918	1665
F38B2.2	525	332
F38B2.3	2247	766
F38B2.4A	909	358
F38B2.4B	270	4
F38B2.6	506	15
F38B6.10	143	53
F38B6.12	180	56
F38B6.13	200	44
F38B6.17	207	57
F38B6.19	264	34
F38B6.21	143	51
F38B6.2	1158	131
F38B6.3	770	164
F38B6.4	3002	2682
F38B6.5A	1292	488
F38B6.5B.1	708	281
F38B6.5B.2	846	42
F38B6.6.1	2185	174
F38B6.6.2	2225	214
F38B6.8	1221	150
F38B7.14	210	67
F38B7.1A	2488	132
F38B7.1B	2491	798
F38B7.2B	943	151
F38B7.3	1402	942
F38B7.4	978	442
F38B7.5	2822	2376
F38B7.7	1002	855
F38B7.8	966	758
F38C2.2	520	127
F38C2.4A	859	608
F38C2.6	858	611
F38C2.7	633	16
F38C2.8	495	190
F38E1.10	897	498
F38E11.12	1959	1336
F38E11.1	485	45
F38E11.21	220	16
F38E11.2	364	32
F38E11.25	220	58
F38E11.3	1382	277
F38E11.5	3700	2887

F38E11.6A	1649	538
F38E11.6B	1655	538
F38E11.7A	774	150
F38E11.7B	774	150
F38E11.9.1	1007	347
F38E11.9.2	912	252
F38E1.3	1041	61
F38E1.5	1412	81
F38E1.6	891	527
F38E1.7	1540	472
F38E1.9	811	129
F38E9.1	2329	691
F38E9.2	3160	2386
F38E9.5.1	1280	295
F38E9.5.2	1377	295
F38E9.6	243	35
F38E9.8	220	63
F38G1.1.1	2355	306
F38G1.1.2	2427	378
F38G1.2.1	815	175
F38G1.2.2	779	141
F38G1.3	606	334
F38H12.1	996	163
F38H12.2	996	608
F38H12.3	1456	180
F38H12.5	879	556
F38H4.10	673	173
F38H4.13	144	21
F38H4.15	384	227
F38H4.3	1467	47
F38H4.4	1572	1027
F38H4.5	872	614
F38H4.7.1	1977	1663
F38H4.7.2	1972	1658
F38H4.8A	1055	419
F38H4.8B	1062	426
F38H4.9.1	1719	520
F38H4.9.2	1729	530
F39B1.1	5114	3731
F39B2.10.1	2147	114
F39B2.10.2	2284	251
F39B2.11	1179	89
F39B2.1	2174	345
F39B2.2.1	584	150

F39B2.2.2	582	150
F39B2.3	1088	392
F39B2.4A	4911	2793
F39B2.4B	4917	2799
F39B2.5	677	273
F39B2.6.1	477	145
F39B2.6.2	489	157
F39B2.7	1345	1112
F39B2.8	1912	868
F39B3.2	1614	409
F39B3.3	420	59
F39C12.1	15455	14886
F39C12.2A	2213	1024
F39C12.2B	2525	1024
F39C12.2C	2428	1024
F39C12.2D	2049	1024
F39C12.2E	2611	1024
F39C12.3A	1750	73
F39C12.3B	2035	358
F39C12.4	312	66
F39C12.8	135	56
F39D8.1A	3241	463
F39D8.1B	3197	222
F39D8.1C	2940	173
F39D8.2A	1086	665
F39D8.2B	993	572
F39D8.2C	950	529
F39D8.3A	1336	258
F39D8.3B	1428	350
F39D8.4	1353	501
F39E9.11	1018	662
F39E9.12	1653	1328
F39E9.14	159	68
F39E9.2	1114	448
F39E9.23	149	32
F39E9.3	1005	473
F39E9.4	2285	1443
F39E9.6	405	173
F39F10.2	897	610
F39F10.3	1018	186
F39F10.4	756	4
F39F10.6	318	60
F39G3.1	1762	229
F39G3.2	1514	1046

F39G3.3	2534	1421
F39G3.4	849	255
F39G3.5A	886	559
F39G3.5B	1013	671
F39G3.6	2117	472
F39G3.7	2267	526
F39G3.8	1227	314
F39H11.1	1316	32
F39H11.2A	1925	424
F39H11.2B	1899	419
F39H11.3	1969	1402
F39H11.5	955	369
F39H12.1	1451	279
F39H12.3	642	516
F39H12.4	3401	370
F39H2.1.1	494	89
F39H2.1.2	517	114
F39H2.2A	1476	910
F39H2.2B	1269	703
F39H2.3.1	1106	461
F39H2.3.2	1129	484
F39H2.4	902	435
F39H2.5.1	2150	736
F39H2.5.2	2161	747
F40A3.1	868	437
F40A3.2	847	592
F40A3.3A	819	105
F40A3.3B	680	85
F40A3.4	413	170
F40A3.5	1601	148
F40A3.6	916	133
F40A3.7	1395	353
F40B5.1	1106	719
F40B5.2A	1619	740
F40B5.2B	1538	659
F40B5.3A	822	236
F40B5.3B	701	244
F40C5.3	442	206
F40D4.1	1002	473
F40D4.11	1059	295
F40D4.12	2343	1901
F40D4.13A	1023	236
F40D4.13B	1020	236
F40D4.16	379	211

F40D4.17	514	231
F40D4.3	1002	271
F40D4.5	933	47
F40D4.7	888	284
F40D4.8	1059	383
F40E10.10	144	43
F40E10.1	1937	1631
F40E10.12	302	60
F40E10.2	831	631
F40E10.3	1452	232
F40E10.4	4588	906
F40E10.5	1091	738
F40E10.6.1	1526	1036
F40E10.6.2	1515	1036
F40E10.6.3	1685	1036
F40E10.8	217	75
F40E12.1A	276	112
F40E12.1B	354	112
F40E12.2	3839	2919
F40E3.10	156	8
F40E3.2	848	398
F40E3.3	517	63
F40E3.5.1	1159	969
F40E3.5.2	1237	1047
F40E3.6	777	646
F40F11.1.1	549	282
F40F11.1.2	806	539
F40F11.2	5556	4665
F40F11.3A	500	305
F40F11.3B	501	306
F40F11.4	1053	353
F40F11.5	217	76
F40F12.3	991	2
F40F12.4	1680	87
F40F12.5A	3832	1838
F40F12.5B	3075	1081
F40F12.5C	2901	907
F40F12.7.1	878	524
F40F12.7.2	997	524
F40F12.7.3	1158	804
F40F12.9A.1	617	390
F40F12.9A.2	599	390
F40F12.9C.1	344	117
F40F12.9C.2	326	117

F40F4.2.1	578	299
F40F4.2.2	762	456
F40F4.3.1	595	339
F40F4.3.2	638	339
F40F4.4A	989	745
F40F4.4B	989	745
F40F4.5	1371	78
F40F4.6	6788	5792
F40F4.7	1251	579
F40F4.8	1841	1474
F40F8.10	672	393
F40F8.1.1	987	127
F40F8.11A.1	1583	1334
F40F8.11A.2	1634	1385
F40F8.11B.1	1457	1208
F40F8.11B.2	1461	1212
F40F8.1.2	873	136
F40F8.1.3	1029	125
F40F8.13	150	62
F40F8.1.4	978	51
F40F8.1.5	1006	102
F40F8.3	505	112
F40F8.4	640	170
F40F8.5A	1531	831
F40F8.5B	1065	218
F40F8.5C	1131	218
F40F8.5D	1332	632
F40F8.5E	1396	799
F40F8.5F	1264	696
F40F8.5G	1399	830
F40F8.5H	1263	561
F40F8.5I	1398	698
F40F8.5J	1197	600
F40F8.7.1	1092	573
F40F8.7.2	1148	573
F40F8.8A	1672	58
F40F8.8B	1810	909
F40F8.9	548	234
F40F9.10	1520	74
F40F9.13	194	32
F40F9.15	297	41
F40F9.16	194	77
F40F9.1A.1	1150	335
F40F9.1A.2	1274	459

F40F9.1A.3	1213	398
F40F9.1B.1	1245	335
F40F9.1B.2	1369	459
F40F9.1B.3	1308	398
F40F9.1C	1331	459
F40F9.2	1997	254
F40F9.3	927	490
F40F9.4	1032	394
F40F9.5	1973	703
F40F9.6A	3108	197
F40F9.6B	3068	157
F40F9.6C	2551	464
F40F9.7A	1640	480
F40F9.7B.1	1639	479
F40F9.7B.2	1416	256
F40F9.7B.3	1917	757
F40F9.8	540	75
F40F9.9	1001	800
F40G12.10	1357	545
F40G12.1	1032	856
F40G12.15	1038	21
F40G12.2	798	308
F40G12.4	795	441
F40G12.5	895	440
F40G12.7	579	362
F40G12.9	516	370
F40G9.10	567	310
F40G9.11	702	385
F40G9.14	947	325
F40G9.15	765	562
F40G9.17	808	206
F40G9.18	1227	958
F40G9.19	390	85
F40G9.1	945	494
F40G9.2	323	55
F40G9.3	971	78
F40G9.4	690	10
F40G9.5	860	291
F40G9.8	822	491
F40G9.9	1232	1026
F40H3.1A	1829	894
F40H3.1B	1166	231
F40H3.2	858	252
F40H3.4A	1053	712

F40H3.4B	1147	153
F40H3.5	940	417
F40H3.6	341	61
F40H6.1	616	185
F40H6.2	3424	305
F40H6.4	1080	455
F40H6.5	3867	2941
F40H7.12	799	506
F40H7.2	933	785
F40H7.4	957	450
F40H7.7	840	205
F40H7.8	918	191
F41A4.1	2295	703
F41B4.1	1309	32
F41B4.2A	631	323
F41B4.2B	599	291
F41B4.3	632	326
F41B4.4A	2569	550
F41B4.4B	1481	952
F41B5.10	1253	171
F41B5.11	470	170
F41B5.12	552	130
F41B5.2	1488	156
F41B5.3	1553	174
F41B5.4	1792	307
F41B5.7	1392	146
F41B5.8	1065	442
F41B5.9	1260	61
F41C3.11	1299	983
F41C3.1	390	69
F41C3.2	1746	1316
F41C3.3.1	1663	431
F41C3.3.2	1672	440
F41C3.4	868	299
F41C3.5.1	1606	1020
F41C3.5.2	1637	1051
F41C3.6	1021	277
F41C3.7	642	284
F41C3.8A	1044	69
F41C3.8B	1104	129
F41C6.11	138	66
F41C6.1.1	2398	1500
F41C6.1.2	2213	1500
F41C6.14	149	9

F41C6.2	495	122
F41C6.4A	1067	33
F41C6.4B	1333	33
F41C6.5	1119	628
F41C6.6	615	39
F41C6.7	1179	208
F41D3.1	981	789
F41D3.2	2049	1281
F41D3.3	1047	689
F41D3.4	2010	99
F41D3.6	990	760
F41D3.9	1041	843
F41D9.10	142	38
F41D9.11	262	74
F41D9.1	2701	886
F41D9.13	142	24
F41D9.14	411	27
F41D9.2A	691	152
F41D9.2B	848	309
F41D9.3A	1805	10
F41D9.3B	1829	10
F41D9.3C	1535	10
F41D9.3D	388	10
F41D9.3E	1854	11
F41D9.5	2623	847
F41D9.7	263	133
F41E6.11	1061	38
F41E6.12	1035	74
F41E6.1	362	187
F41E6.13A	1742	951
F41E6.13B	1702	951
F41E6.14	1971	201
F41E6.15	433	250
F41E6.17	489	78
F41E6.2	523	19
F41E6.4A	3993	584
F41E6.4B	3400	2109
F41E6.4C	1834	584
F41E6.5A	994	652
F41E6.5B	1494	783
F41E6.6.1	1589	1130
F41E6.6.2	1564	1130
F41E6.7	543	165
F41E6.8	654	209

F41E6.9	823	157
F41E7.1	1921	1240
F41E7.2.1	1892	899
F41E7.2.2	1891	898
F41E7.2.3	1990	997
F41E7.3	1574	223
F41E7.4	417	78
F41E7.5	442	277
F41E7.6	1914	664
F41E7.7A	349	28
F41E7.7B	400	79
F41E7.8	302	43
F41E7.9	1578	3
F41F3.1	695	74
F41F3.2	1357	1009
F41F3.3	581	232
F41F3.4	1014	53
F41F3.6	945	442
F41F3.8	578	15
F41G3.10	757	122
F41G3.11	924	643
F41G3.12	4795	838
F41G3.1	413	81
F41G3.14	936	104
F41G3.16	354	110
F41G3.17	350	73
F41G3.18.1	339	79
F41G3.18.2	465	89
F41G3.19	455	79
F41G3.20	771	139
F41G3.21.1	505	127
F41G3.21.2	505	127
F41G3.2	810	664
F41G3.3	1734	194
F41G3.4	552	151
F41G3.5	1051	710
F41G3.6	1069	450
F41G4.12	1009	137
F41G4.1	873	687
F41G4.2A	3990	3513
F41G4.2B.1	1710	1233
F41G4.2B.2	1727	1250
F41G4.3A	1308	309
F41G4.3B	982	309

F41G4.3C	528	14
F41G4.4	700	459
F41G4.5	1476	1121
F41G4.7	2055	31
F41G4.8	858	554
F41H10.10	1228	886
F41H10.11	1525	1083
F41H10.2	621	181
F41H10.37	291	39
F41H10.3A	3684	3209
F41H10.3B	3634	2934
F41H10.3C.1	2749	2274
F41H10.3C.2	3118	2643
F41H10.3D.1	2737	2262
F41H10.3D.2	3106	2631
F41H10.3E	3696	3221
F41H10.4	1903	1240
F41H10.5	919	88
F41H10.6A	2962	1164
F41H10.6B	2989	1164
F41H10.6C	2995	1170
F41H10.6D	933	634
F41H10.7A	961	391
F41H10.7B.1	940	370
F41H10.7B.2	960	390
F41H10.8	928	661
F41H8.1	965	104
F41H8.2	948	322
F42A10.1.1	2427	80
F42A10.1.2	2446	99
F42A10.2A	2232	1341
F42A10.2B	2395	1341
F42A10.2C	2384	1341
F42A10.3	1244	668
F42A10.4A	2694	36
F42A10.4B	2670	36
F42A10.5	1503	669
F42A10.6	580	84
F42A10.7.1	673	325
F42A10.7.2	689	341
F42A10.8	1606	355
F42A10.9	518	390
F42A6.1	1005	85
F42A6.2	353	39

F42A6.6B	624	416
F42A6.6C	576	368
F42A6.7A.1	1489	91
F42A6.7A.2	1551	153
F42A6.7B.1	1554	153
F42A6.7B.3	1519	119
F42A6.7B.4	1384	22
F42A6.7C.1	1551	153
F42A6.7C.3	1516	119
F42A6.7C.4	1381	22
F42A6.7D.1	1492	91
F42A6.7D.2	1554	153
F42A6.9	2852	734
F42A8.1	1304	349
F42A8.2.1	1115	188
F42A8.2.2	1181	254
F42A8.3	1126	752
F42A8.4	144	27
F42A9.11	257	129
F42A9.12	149	14
F42A9.16	748	75
F42A9.17	280	67
F42A9.1A	4806	2133
F42A9.1B	4653	2133
F42A9.2.1	3697	2528
F42A9.2.2	3827	2658
F42A9.3	477	218
F42A9.4	861	260
F42A9.5	1581	95
F42A9.6A	399	253
F42A9.6B	586	373
F42A9.6C	524	311
F42A9.7	804	24
F42A9.8	449	110
F42A9.9	654	140
F42C5.10	4039	3660
F42C5.14	149	23
F42C5.15	148	12
F42C5.2	1117	941
F42C5.3A	910	693
F42C5.3B	753	536
F42C5.4A	2264	1457
F42C5.4B	2204	1397
F42C5.5A	1083	10

F42C5.5B	781	640
F42C5.7	825	349
F42C5.8A	691	464
F42C5.8B.1	602	380
F42C5.8B.2	666	444
F42C5.8B.3	689	467
F42C5.8B.4	650	428
F42C5.8B.5	576	354
F42C5.8B.6	655	433
F42C5.9.1	1989	361
F42C5.9.2	2049	421
F42D1.11	137	64
F42D1.13	147	74
F42D1.2	1784	1197
F42D1.3	1526	335
F42D1.4	228	6
F42D1.7	274	44
F42D1.8	138	40
F42E11.1B	3952	718
F42E11.2A	1932	1243
F42E11.2B	401	59
F42E11.2C	1830	1243
F42E11.3	777	151
F42E8.1	801	282
F42E8.3	137	68
F42F12.11	549	211
F42F12.14	363	189
F42F12.2	954	73
F42F12.3	886	192
F42F12.4.1	625	389
F42F12.4.2	655	419
F42G10.1.1	2030	63
F42G10.1.2	2298	331
F42G10.2	1569	693
F42G2.11	2006	1231
F42G2.3	1222	31
F42G2.4	2155	1729
F42G2.5	1125	546
F42G2.6	2336	2024
F42G2.7A	369	133
F42G4.10	449	67
F42G4.2	1381	1012
F42G4.3A.1	2193	1018
F42G4.3A.2	2388	159

F42G4.3B	1297	797
F42G4.3C	1338	163
F42G4.3D	1104	604
F42G4.3E.1	2018	1018
F42G4.3E.2	2213	159
F42G4.5A	996	576
F42G4.5B	998	578
F42G4.5C	751	331
F42G4.9	140	16
F42G8.10.1	918	62
F42G8.10.2	943	87
F42G8.11	951	261
F42G8.12	1213	699
F42G8.19	549	12
F42G8.3A	1537	84
F42G8.3B	1522	84
F42G8.3C	917	385
F42G8.3D	902	380
F42G8.4A.1	1862	533
F42G8.4A.2	1781	533
F42G8.4B.1	1256	185
F42G8.4B.2	1175	820
F42G8.5	1380	753
F42G8.6	1318	197
F42G8.7	1350	752
F42G8.8	1221	369
F42G8.9	1158	481
F42G9.10	150	38
F42G9.1A	1933	98
F42G9.1B	1913	1187
F42G9.2	712	183
F42G9.4	484	341
F42G9.5A	2154	1876
F42G9.5B	1588	1310
F42G9.6A	2423	156
F42G9.6B	2501	895
F42G9.6C	2421	148
F42G9.7	1891	785
F42G9.8	780	285
F42G9.9A.1	1760	800
F42G9.9A.2	1697	737
F42G9.9B.1	1668	800
F42G9.9B.2	1605	737
F42G9.9C.1	1633	800

F42G9.9C.2	1570	737
F42G9.9D.1	1465	666
F42G9.9D.2	1536	737
F42G9.9D.3	1511	712
F42H10.12	144	17
F42H10.15	200	30
F42H10.2	397	168
F42H10.3A	1247	391
F42H10.3B	1203	391
F42H10.5.1	3751	204
F42H10.5.2	3582	2181
F42H10.6.1	679	21
F42H10.6.2	609	164
F42H10.7A	1714	1163
F42H10.7B	1718	1162
F42H10.9	217	74
F42H11.1	993	212
F42H11.2	2308	263
F43A11.1	927	1
F43A11.3	960	757
F43A11.6	969	439
F43B10.1	936	525
F43B10.2A	3311	1266
F43B10.2B	2645	600
F43B10.3	212	73
F43B10.4	224	131
F43C11.10	649	398
F43C11.11	1065	157
F43C11.12	585	58
F43C11.1A	516	103
F43C11.1B	540	103
F43C11.2	555	456
F43C1.1	3111	1064
F43C11.3	477	84
F43C11.4	606	207
F43C11.6	697	294
F43C11.7	934	512
F43C11.8	1040	862
F43C11.9	1095	517
F43C1.2A	1757	238
F43C1.2B	1961	442
F43C1.3	672	232
F43C1.4	1580	680
F43C1.5	749	314

F43C1.6	639	418
F43C1.7	510	166
F43C9.1	1290	154
F43C9.2	774	431
F43C9.3	2562	2320
F43C9.4A	1549	828
F43C9.4B	1705	984
F43D2.11	348	47
F43D2.12	225	70
F43D2.13	265	175
F43D2.1	998	83
F43D2.3	679	110
F43D2.4A	971	175
F43D2.4B	854	12
F43D2.6	692	409
F43D9.1	3973	1760
F43D9.2	1214	28
F43D9.3A	2427	648
F43D9.3B	2122	648
F43D9.4	640	332
F43D9.5	810	97
F43D9.6	377	1
F43E12.1	477	1
F43E12.3	203	68
F43E12.6	188	62
F43E12.7	225	46
F43E2.1.1	1791	1148
F43E2.11	498	342
F43E2.1.2	1654	1148
F43E2.2	558	52
F43E2.3	1967	1187
F43E2.4	2555	1755
F43E2.6A	820	78
F43E2.6B.1	764	46
F43E2.6B.2	795	77
F43E2.7A	1341	832
F43E2.7B	770	261
F43E2.8A.1	2159	377
F43E2.8A.2	2216	434
F43E2.8B	1116	115
F43E2.9	381	46
F43G6.16	215	55
F43G6.17A	899	74
F43G6.17B	951	179

F43G6.1A	3391	134
F43G6.1B	3296	50
F43G6.4	1159	311
F43G6.5	1737	146
F43G6.6	1715	156
F43G6.7	404	92
F43G6.8	950	266
F43G6.9	2894	504
F43G9.10	1490	914
F43G9.1	1611	506
F43G9.11	837	315
F43G9.12A	2625	1708
F43G9.12B	1107	190
F43G9.13	490	15
F43G9.15	150	2
F43G9.18	148	64
F43G9.2A	922	262
F43G9.2B	892	252
F43G9.3	1434	456
F43G9.4	1085	536
F43G9.5	843	260
F43G9.6A	6244	5427
F43G9.6B.1	6049	5232
F43G9.6B.2	6176	5359
F43G9.8	752	349
F43G9.9.1	867	116
F43G9.9.2	938	187
F43H9.1	917	5
F43H9.2A	1888	75
F43H9.2B	1905	350
F43H9.3	1415	614
F43H9.4	990	618
F44A2.12	168	67
F44A2.13	300	166
F44A2.1A	2387	1341
F44A2.1B	2815	1769
F44A2.2	1480	1045
F44A2.3	2061	209
F44A2.4	1155	18
F44A2.5A	643	198
F44A2.5B	1775	698
F44A2.7	942	574
F44A2.8	299	166
F44A6.1A	1593	90

F44A6.1B	1665	90
F44A6.2.1	1899	143
F44A6.2.2	1845	155
F44A6.3	396	46
F44A6.4	663	176
F44B9.10	590	284
F44B9.1A	2489	1666
F44B9.1B	2097	1274
F44B9.1C	2485	279
F44B9.2	1582	1028
F44B9.3A	2165	1262
F44B9.3B	1632	729
F44B9.4A	2083	1026
F44B9.4B	1336	1026
F44B9.4C.1	1276	219
F44B9.4C.2	1380	323
F44B9.5	1304	835
F44B9.6	3349	174
F44B9.7	1491	312
F44B9.8	1289	282
F44B9.9	782	648
F44C4.2	1291	425
F44C4.4A	3140	1741
F44C4.4B	3076	1741
F44C4.5	1009	349
F44C4.9	148	46
F44C8.10	1459	586
F44C8.11	1209	821
F44C8.1	1482	139
F44C8.2.1	1275	655
F44C8.2.2	1374	754
F44C8.3	1205	153
F44C8.4	1213	213
F44C8.5A	612	146
F44C8.5B	1524	264
F44C8.6A	1376	272
F44C8.6B	855	201
F44C8.7	1056	317
F44C8.8	1282	855
F44C8.9A	1258	385
F44C8.9B	522	221
F44D12.10	398	141
F44D12.11	1309	919
F44D12.19	168	54

F44D12.1A	3176	1294
F44D12.1B	3170	1288
F44D12.2	1259	609
F44D12.4	1157	28
F44D12.6	913	409
F44D12.8A	1404	992
F44D12.8B	1401	989
F44D12.9A.1	1420	1127
F44D12.9A.2	1502	1209
F44D12.9A.3	1667	1374
F44D12.9B	595	302
F44D12.9C	1452	1159
F44E2.10	1113	742
F44E2.11	351	73
F44E2.2A	6528	78
F44E2.2B	6561	78
F44E2.2C	2034	547
F44E2.3	896	137
F44E2.4	4225	3675
F44E2.6A	584	325
F44E2.6B	584	325
F44E2.7A	1677	803
F44E2.7B.1	1631	757
F44E2.7B.2	1670	796
F44E2.7C	1661	787
F44E2.7D	1671	797
F44E2.8	1153	60
F44E5.1.1	349	136
F44E5.1.2	367	136
F44E5.13	203	77
F44E5.15	1131	3
F44E5.2	1470	376
F44E5.3	1374	265
F44E5.6	226	47
F44E5.7	143	8
F44E5.8	212	38
F44E7.12	198	94
F44E7.16	380	13
F44E7.3	334	124
F44E7.4A	3386	2575
F44E7.4B	3338	2527
F44E7.4C.1	3270	2459
F44E7.4C.2	3358	2547
F44E7.4D	2964	2575

F44E7.5A	1595	246
F44E7.5B	1087	246
F44E7.6	1098	447
F44E7.7	1422	1057
F44E7.8A	1391	946
F44E7.8B	1434	989
F44E7.9	470	70
F44F1.3	1941	696
F44F1.4	1650	956
F44F1.6B	361	290
F44F1.7	2626	1423
F44F4.11	1381	662
F44F4.13	1005	822
F44F4.15	456	164
F44F4.1	589	227
F44F4.2.1	1795	69
F44F4.2.2	1816	90
F44F4.4	2798	2255
F44F4.5A	1011	442
F44F4.5B	1081	442
F44F4.6	1419	724
F44F4.7	1031	198
F44F4.9	405	152
F44G3.10	582	194
F44G3.1	1020	899
F44G3.11	1089	951
F44G3.14	1171	852
F44G3.2	1401	1020
F44G3.5	903	309
F44G3.6.1	701	58
F44G3.6.2	745	102
F44G3.7	2121	1721
F44G3.8A	1050	286
F44G3.8B	890	126
F44G3.8C	954	33
F44G3.9	936	16
F44G4.1	1333	853
F44G4.2	630	24
F44G4.3	496	323
F44G4.4A	1437	718
F44G4.4B	416	286
F44G4.4C	1446	704
F44G4.5	540	45
F44G4.6A	529	149

F44G4.6B	472	149
F44G4.7	1398	143
F44G4.8A	4476	198
F44G4.8B	1805	1256
F45B8.10	220	75
F45B8.1	1030	267
F45B8.11	286	65
F45B8.12	210	78
F45B8.13	349	15
F45B8.14	186	65
F45B8.16	145	22
F45B8.20	269	7
F45B8.2	1038	282
F45B8.21	140	70
F45B8.22	219	44
F45B8.3	799	183
F45B8.4	1011	650
F45B8.7	350	239
F45C12.10A	826	418
F45C12.10B	675	405
F45C12.1	1520	1167
F45C12.11	991	477
F45C12.12	987	539
F45C12.14	1053	21
F45C12.15.1	1826	59
F45C12.15.2	1848	81
F45C12.15.3	1871	104
F45C12.16	1521	302
F45C12.2	828	209
F45C12.3	1495	418
F45C12.4	965	402
F45C12.5	1902	1312
F45C12.6	1128	403
F45C12.7	1191	652
F45C12.8	914	89
F45C12.9	480	157
F45D11.10	1449	211
F45D11.1.1	1662	232
F45D11.1.2	1351	335
F45D11.1.3	1654	233
F45D11.13	969	49
F45D11.1.4	1707	232
F45D11.5	751	407
F45D11.9	1080	816

F45D3.1	576	52
F45D3.2A	1520	84
F45D3.2B	1512	84
F45D3.3	1023	77
F45D3.4A.1	926	26
F45D3.4A.2	964	64
F45D3.4B.1	809	40
F45D3.4B.2	823	54
F45D3.5	2387	70
F45D3.9	132	61
F45E10.1A	5024	2895
F45E10.1B	4917	2772
F45E10.1C	5232	3108
F45E10.1E	3931	1807
F45E10.1F	4267	2143
F45E10.1G	5109	2985
F45E10.1H	4896	2772
F45E10.2A	1783	170
F45E10.2B	1930	317
F45E10.3	225	68
F45E1.11	192	36
F45E1.1	279	92
F45E12.1A	1303	512
F45E12.1B	1391	600
F45E12.2	2600	1161
F45E12.3	2761	929
F45E1.2	345	36
F45E12.5A	698	139
F45E12.5B.1	605	63
F45E12.5B.2	649	107
F45E12.6	257	83
F45E1.4	1038	158
F45E1.5	1929	1105
F45E1.6	592	218
F45E1.7A.1	1727	456
F45E1.7A.2	1748	477
F45E1.7B	1782	511
F45E1.8	194	73
F45E4.10A.1	2449	966
F45E4.10A.2	2429	966
F45E4.10B.1	2481	998
F45E4.10B.2	2461	998
F45E4.11	1841	97
F45E4.16	143	51

F45E4.1	679	459
F45E4.17	146	31
F45E4.18	149	37
F45E4.2	977	183
F45E4.3A	26890	20894
F45E4.3B	25707	20894
F45E4.3C	6975	2162
F45E4.3D	8158	2162
F45E4.3E.1	4113	2836
F45E4.3E.2	4091	2814
F45E4.3F.1	2930	134
F45E4.3F.2	2908	111
F45E4.5A	506	321
F45E4.5B	414	269
F45E4.5C	417	232
F45E4.5D	369	224
F45E4.6	1179	749
F45E4.7A	2777	53
F45E4.7B	1690	933
F45E4.7C	2508	1751
F45E4.8.1	474	19
F45E4.8.2	528	73
F45E4.9	813	437
F45E6.1	912	600
F45E6.2	2377	1098
F45E6.3	1704	215
F45E6.4	1247	153
F45E6.6	471	51
F45F2.10	3794	203
F45F2.11A	1361	677
F45F2.11B	1643	959
F45F2.3	379	129
F45F2.5	1817	96
F45F2.6	1912	1061
F45F2.7	1902	504
F45F2.9A	385	185
F45F2.9B	640	364
F45G2.10	628	122
F45G2.1	966	482
F45G2.2A	3927	2255
F45G2.2B.1	1502	31
F45G2.2B.2	1890	218
F45G2.3	2080	967
F45G2.4.1	1159	461

F45G2.4.2	1113	415
F45G2.5	609	10
F45G2.6	1573	571
F45G2.7	617	89
F45G2.8	583	70
F45G2.9	692	229
F45H10.1A.1	1748	993
F45H10.1A.2	1567	993
F45H10.1B	872	117
F45H10.2.1	375	131
F45H10.2.2	460	131
F45H10.3	584	220
F45H11.1A	1064	687
F45H11.1B	1109	687
F45H11.3	2756	1934
F45H11.4	3187	461
F45H11.5	351	28
F45H11.6	899	253
F45H11.9	149	58
F45H7.11	503	265
F45H7.13	433	116
F45H7.2A	4959	663
F45H7.2B	4431	663
F45H7.2C	1113	518
F45H7.2D.1	4688	392
F45H7.2D.2	4729	433
F45H7.4.1	1790	23
F45H7.4.2	1717	985
F45H7.6	2651	282
F46A8.10	879	526
F46A8.3	715	370
F46A8.4	666	368
F46A9.2	879	64
F46A9.3A	1496	904
F46A9.3B	1499	94
F46A9.4	708	51
F46A9.5.1	864	61
F46A9.5.2	863	60
F46A9.5.3	1073	270
F46A9.6.1	1507	948
F46A9.6.2	1583	1024
F46A9.9	149	7
F46B3.14A	501	149
F46B3.14B	477	149

F46B3.14C	612	149
F46B3.14D	555	365
F46B3.15	450	40
F46B3.1	617	352
F46B3.16	633	418
F46B3.17	2223	1846
F46B3.18	491	246
F46B3.23	252	55
F46B3.3A	401	169
F46B3.3B	285	148
F46B3.3C	333	62
F46B3.4A	486	189
F46B3.4B	482	185
F46B3.5	2919	1947
F46B3.7	387	156
F46B3.9	600	169
F46B6.10	384	72
F46B6.11A	993	560
F46B6.11B	990	560
F46B6.12	633	337
F46B6.13	208	11
F46B6.15	145	31
F46B6.17	189	17
F46B6.2	1029	1
F46B6.3A	1287	89
F46B6.3B	1365	89
F46B6.4	1407	5
F46B6.5A	2920	1013
F46B6.5B	2794	1013
F46B6.5C	2711	1013
F46B6.5D	2926	2028
F46B6.5E	2929	2028
F46B6.6A	2328	52
F46B6.6B	2036	9
F46B6.7.1	2468	411
F46B6.7.2	2474	417
F46B6.8	1423	629
F46B6.9	969	310
F46C3.1	3628	2236
F46C3.2	1158	264
F46C3.3A	8018	7204
F46C3.3B	3275	2461
F46C3.3C	3164	2350
F46C3.3D	4400	3586

F46C3.3E	4133	3319
F46C3.3F	7907	7093
F46C3.3G	4289	3475
F46C3.3H	4022	3208
F46C3.6	404	78
F46C5.10	578	50
F46C5.1	702	308
F46C5.2.1	725	520
F46C5.2.2	742	520
F46C5.3	1338	467
F46C5.4	691	64
F46C5.6	2938	1744
F46C5.7	676	343
F46C5.8.1	952	450
F46C5.8.2	969	467
F46C5.9	1522	102
F46C8.10	149	40
F46C8.15	203	25
F46C8.17	139	38
F46C8.18	139	44
F46C8.1	828	287
F46C8.19	432	149
F46C8.2	1296	385
F46C8.3	790	351
F46C8.5	1056	43
F46C8.6	1154	105
F46C8.7	1717	525
F46C8.8	1086	224
F46E10.10A	1156	729
F46E10.10B	1144	351
F46E10.10C	781	354
F46E10.11	577	439
F46E10.13	147	51
F46E10.14	149	61
F46E10.18	356	163
F46E10.1A	2405	1783
F46E10.1B.1	2257	1635
F46E10.1B.2	2372	1750
F46E10.1C.1	2211	1589
F46E10.1C.2	2372	1750
F46E10.2	558	15
F46E10.8	748	50
F46E10.9.1	1277	395
F46E10.9.2	1430	548

F46F11.11	153	12
F46F11.12	155	14
F46F11.1A	4100	3441
F46F11.1B	3806	2845
F46F11.2	1010	132
F46F11.3	999	24
F46F11.4	330	83
F46F11.5	675	223
F46F11.6	1491	278
F46F11.7	1103	280
F46F11.8	1293	638
F46F11.9A	4099	3732
F46F11.9B	4105	3738
F46F2.2A.1	2211	590
F46F2.2A.2	2081	529
F46F2.2C.1	1967	529
F46F2.2C.2	1996	558
F46F2.2D.1	1653	529
F46F2.2D.2	1682	558
F46F2.3	624	193
F46F2.4	1132	103
F46F2.5	1253	815
F46F3.10	212	43
F46F3.14	417	143
F46F3.15	210	37
F46F3.16	147	25
F46F3.1A	1015	200
F46F3.1B	513	348
F46F3.21	208	33
F46F3.2	1883	863
F46F3.23	212	67
F46F3.3A	1034	690
F46F3.3B	558	214
F46F3.3C	501	190
F46F3.4A	2753	151
F46F3.4B	2541	1986
F46F3.4C	1807	1252
F46F3.4D	1449	894
F46F3.6	219	35
F46F3.7	177	37
F46F3.8	212	34
F46F3.9	205	4
F46F5.10	1110	837
F46F5.1	1200	361

F46F5.11	2397	397
F46F5.13	366	131
F46F5.14	1145	100
F46F5.15	543	93
F46F5.16	540	136
F46F5.4	1100	491
F46F5.5	969	756
F46F5.6	398	55
F46F5.7	1398	1200
F46F5.9	315	75
F46F6.1A.1	2410	717
F46F6.1A.2	2500	807
F46F6.1B	1002	8
F46F6.2A	3839	249
F46F6.2B	4064	2116
F46F6.4A	1700	739
F46F6.4B	1033	130
F46F6.4C	1212	251
F46F6.4D	1146	185
F46F6.6	186	69
F46G10.1A.1	699	433
F46G10.1A.2	696	433
F46G10.1B	544	354
F46G10.2	2262	497
F46G10.3	864	387
F46G10.4	1545	778
F46G10.5A	2728	1255
F46G10.5B	2926	1453
F46G10.6	1007	82
F46G10.7A	1008	207
F46G10.7B	1016	215
F46G10.7C	1119	318
F46G11.10	315	122
F46G11.1	2100	1690
F46G11.20	139	61
F46G11.2	1283	911
F46G11.3	2026	1525
F46G11.4	259	108
F46G11.6	655	128
F46G11.7	140	36
F46G11.8	196	32
F46H5.10	147	20
F46H5.2A	1850	1171
F46H5.2B	1623	944

F46H5.2C	1783	1176
F46H5.3A.1	1376	301
F46H5.3A.2	1377	301
F46H5.3A.3	1353	301
F46H5.3B.1	1424	349
F46H5.3B.2	1425	349
F46H5.3B.3	1401	349
F46H5.4	6575	2244
F46H5.5	855	71
F46H5.6	2254	1713
F46H5.7A.1	2008	3
F46H5.7A.2	2173	168
F46H5.7B.1	2067	3
F46H5.7B.2	2232	168
F46H5.7C	729	129
F46H5.8	1229	721
F46H5.9	144	25
F46H6.1	790	45
F46H6.2A.1	2213	1154
F46H6.2A.2	2432	1373
F46H6.2B.1	584	348
F46H6.2B.2	869	652
F46H6.2C.1	1498	439
F46H6.2C.2	1802	743
F46H6.5	406	212
F46H6.8	162	71
F47A4.1A	1888	568
F47A4.1B	1670	25
F47A4.2	10838	6072
F47A4.3A	2523	2135
F47A4.3B	2582	2194
F47A4.3C	2520	2132
F47A4.5	3623	535
F47B10.1	1671	794
F47B10.2	2250	117
F47B10.3	1143	724
F47B10.4	276	91
F47B10.5	493	283
F47B10.6	360	215
F47B10.7	518	137
F47B10.8A	923	373
F47B10.8B	1100	550
F47B10.8C	962	412
F47B10.8D	1241	691

F47B10.9	931	227
F47B3.1	1167	903
F47B3.6	939	750
F47B7.12	135	51
F47B7.15	263	142
F47B7.1	661	279
F47B7.2A	1886	328
F47B7.2B	2248	328
F47B7.2C	2103	328
F47B7.3	633	403
F47B7.4	747	271
F47B7.5	585	86
F47B7.6	726	135
F47B7.7A	1492	597
F47B7.7B	840	499
F47B7.9	144	28
F47B8.10	1781	430
F47B8.11	894	160
F47B8.12	1105	575
F47B8.13	771	69
F47B8.14	768	59
F47B8.1	522	407
F47B8.16	150	38
F47B8.2	705	388
F47B8.4B	967	91
F47B8.5A	988	232
F47B8.5B	994	232
F47B8.6	633	467
F47B8.7	1177	785
F47B8.8	744	499
F47B8.9A	1112	513
F47B8.9B	1097	513
F47C10.1	1277	551
F47C10.2	928	80
F47C10.3	1125	66
F47C10.4	1074	484
F47C10.6	1584	1009
F47C10.7	1062	636
F47C10.8	1209	782
F47C12.10	1014	251
F47C12.13	402	299
F47C12.2	10836	3264
F47C12.3	1014	469
F47C12.5	1026	481

F47C12.6	476	209
F47C12.7	423	87
F47C12.8	455	273
F47C8.7	134	26
F47D12.1A	2195	925
F47D12.1B	2156	925
F47D12.1C	2315	925
F47D12.1D	781	310
F47D12.1E	1645	414
F47D12.4A.1	2116	479
F47D12.4A.2	2094	457
F47D12.4B	2015	378
F47D12.4C.1	2110	479
F47D12.4C.2	2088	457
F47D12.5	2339	1036
F47D12.6	438	179
F47D12.7	1888	628
F47D12.9A.1	2116	354
F47D12.9A.2	1845	354
F47D12.9A.3	2277	515
F47D12.9B.1	1729	178
F47D12.9B.2	1458	178
F47D2.3	1059	671
F47D2.4	999	681
F47D2.6	984	680
F47D2.9	1032	492
F47E1.1	517	256
F47E1.16	150	24
F47E1.17	395	126
F47E1.18	4071	140
F47E1.19	157	43
F47E1.2	2405	1604
F47E1.3	1912	464
F47E1.4	2454	441
F47E1.5	336	63
F47F2.1A.1	1270	857
F47F2.1A.2	1384	971
F47F2.1B	1536	1123
F47F2.1C.1	1573	1160
F47F2.1C.2	1384	971
F47F2.3	840	168
F47F2.8	164	26
F47F6.15	143	42
F47F6.1A	1865	625

F47F6.1B	2745	1487
F47F6.1C	1538	527
F47F6.3	1944	285
F47F6.4	510	288
F47F6.5	1906	1282
F47F6.9	954	184
F47G3.1	2802	2251
F47G3.2	1447	621
F47G3.3	1847	529
F47G3.4	516	260
F47G3.5	146	24
F47G4.1	861	734
F47G4.2	2258	1710
F47G4.3	1312	183
F47G4.4	2363	1738
F47G4.5	868	731
F47G4.6	408	276
F47G4.7.1	2014	1083
F47G4.7.2	2004	1073
F47G6.1A	2755	1684
F47G6.1B	2498	1427
F47G6.1C	185	7
F47G6.2	1798	274
F47G6.3	1126	715
F47G6.4A	3786	3384
F47G6.4B	1755	1353
F47G6.4C	1270	868
F47G9.1	953	61
F47G9.2	1005	156
F47G9.3	2463	2052
F47G9.4.1	2639	1135
F47G9.4.2	2615	1111
F47G9.6	1122	372
F47H4.10	604	5
F47H4.11	763	497
F47H4.1A	1033	748
F47H4.1B	1017	732
F47H4.2A.1	2205	1
F47H4.2A.2	2204	1
F47H4.2B.1	3240	1
F47H4.2B.2	3239	1
F47H4.4	1735	426
F47H4.8	1084	332
F47H4.9	1710	71

F48A11.1	5282	2796
F48A11.2	351	42
F48A11.4	1375	21
F48A11.5A	1916	383
F48A11.5B	1900	373
F48A9.1	1923	767
F48A9.2	693	222
F48A9.3	1297	558
F48A9.4	148	25
F48B9.10	200	29
F48B9.1	1473	962
F48B9.3	1401	584
F48B9.4	574	116
F48B9.5	702	102
F48B9.8	816	361
F48C11.1	1095	996
F48C1.11	647	28
F48C1.12	135	63
F48C11.2A	2067	311
F48C11.2B	2076	320
F48C1.13	148	23
F48C1.1	3307	1547
F48C11.3	528	72
F48C1.14	150	52
F48C11.5	142	43
F48C1.15	969	156
F48C1.2	1145	701
F48C1.5	537	41
F48C1.6	871	306
F48C1.7	985	799
F48C1.8	852	474
F48C1.9	327	46
F48C5.1	1087	529
F48C5.2	582	201
F48C5.7	146	18
F48D6.1.1	1129	77
F48D6.1.2	1145	93
F48D6.2A	1091	94
F48D6.2B	1103	94
F48D6.3	630	411
F48D6.4A	526	63
F48D6.4B	539	65
F48D6.4C	513	63
F48D6.6	202	61

F48E3.1A.1	1958	613
F48E3.1A.2	2168	816
F48E3.1B	1737	613
F48E3.2	1529	1102
F48E3.3	4734	4266
F48E3.4	1070	310
F48E3.6	1256	472
F48E3.7	1435	933
F48E3.8A	7472	1229
F48E3.8B	4088	1229
F48E3.8C	1440	1147
F48E3.9	1900	115
F48E8.1A	1180	461
F48E8.1B	1147	461
F48E8.1C	1105	461
F48E8.2	1831	96
F48E8.3.1	1862	111
F48E8.3.2	1827	76
F48E8.4	3035	1784
F48E8.5.1	2160	1546
F48E8.5.2	2261	28
F48E8.6	2762	1584
F48E8.7A	1569	892
F48E8.7B	1536	859
F48E8.8	689	292
F48F5.4A	1081	243
F48F5.4B	1410	143
F48F5.5	1174	412
F48F5.6A.1	421	182
F48F5.6A.2	458	313
F48F5.6B	271	61
F48F5.6C	440	295
F48F7.1A	4587	2955
F48F7.1B	4968	352
F48F7.2.1	1296	308
F48F7.2.2	1366	378
F48F7.3	1226	268
F48F7.4	2336	398
F48F7.5	1171	128
F48F7.6	970	83
F48F7.7	1041	500
F48G7.10	654	129
F48G7.1	1002	640
F48G7.11	1331	400

F48G7.12	1308	1046
F48G7.13	896	600
F48G7.2B	677	396
F48G7.3	1823	648
F48G7.4	1013	855
F48G7.5	620	182
F48G7.7	495	135
F48G7.8	498	139
F49A5.10	222	14
F49A5.2	1151	233
F49A5.3	987	132
F49A5.4A	1122	302
F49A5.4B	1191	371
F49A5.5A	1209	517
F49A5.5B	1203	511
F49A5.6	702	172
F49A5.7	1261	352
F49A5.8	1302	689
F49A5.9	1148	313
F49B2.1	939	35
F49B2.3	969	79
F49B2.5	1697	1282
F49B2.6	3372	513
F49B2.7	792	376
F49C12.10	906	535
F49C12.1	1189	163
F49C12.11	385	147
F49C12.12.1	562	105
F49C12.12.2	870	416
F49C12.13	557	48
F49C12.14	751	223
F49C12.15	2721	2263
F49C12.2	1052	1
F49C12.4	969	531
F49C12.5A	1550	509
F49C12.5B	1443	402
F49C12.6	1086	199
F49C12.7A	1519	327
F49C12.7B	1509	327
F49C12.7C.1	1448	256
F49C12.7C.2	1482	290
F49C12.8	1479	823
F49C12.9	1171	296
F49C5.10	696	495

F49C5.1	1009	576
F49C5.11A	646	146
F49C5.11B	655	146
F49C5.11C	658	146
F49C5.12	626	16
F49C5.2	990	46
F49C5.3	1656	1076
F49C5.4	1666	42
F49C5.5	390	266
F49C5.6	1029	338
F49C5.7	672	47
F49C5.9	1131	259
F49D11.10.1	2389	1558
F49D11.10.2	2302	1558
F49D11.1	1987	1554
F49D11.14	322	213
F49D11.2	1293	88
F49D11.3A	945	430
F49D11.3B	814	296
F49D11.4	868	517
F49D11.6	962	267
F49D11.7	212	94
F49D11.8	574	66
F49D11.9	1144	494
F49E10.10	185	76
F49E10.1	2405	1020
F49E10.13	137	57
F49E10.14	140	39
F49E10.18	148	21
F49E10.21	148	41
F49E10.2A	2424	691
F49E10.2B	2903	691
F49E10.3	754	14
F49E10.4A	2116	317
F49E10.4B	2704	196
F49E10.5A	2758	320
F49E10.5B	2395	85
F49E10.8	224	55
F49E10.9	274	69
F49E11.10A	762	538
F49E11.10B	393	201
F49E11.11	739	473
F49E11.1A	1776	69
F49E11.1B	3549	309

F49E11.1C	3464	326
F49E11.1D.1	3271	454
F49E11.1D.2	3322	505
F49E11.1D.3	3322	505
F49E11.1E	1885	697
F49E11.1F	1682	494
F49E11.1G	2656	309
F49E11.1H	2524	539
F49E11.2	1323	887
F49E11.3	1569	431
F49E11.4	681	1
F49E11.5	639	417
F49E11.6	624	265
F49E11.7	1155	680
F49E11.9	649	283
F49E12.10	926	437
F49E12.1	2093	1565
F49E12.12	1074	172
F49E12.2	738	431
F49E12.4	966	709
F49E12.5A	1008	153
F49E12.5B	827	198
F49E12.6	2182	179
F49E12.7	661	185
F49E12.8	894	283
F49E12.9A	1150	788
F49E12.9B	942	788
F49E12.9C	802	569
F49E2.1A	1233	1119
F49E2.1B	1874	1121
F49E2.2A	1876	870
F49E2.2B	1861	870
F49E2.2C	2009	1003
F49E2.4A	651	541
F49E2.4B	698	547
F49E2.5A.1	4136	156
F49E2.5A.2	4278	298
F49E2.5B.1	3793	156
F49E2.5B.2	3935	298
F49E2.5C.1	3581	156
F49E2.5C.2	3723	298
F49E2.5D.1	3158	156
F49E2.5D.2	3300	298
F49E2.5E.1	2012	156

F49E2.5E.2	2154	298
F49E2.5F.1	1886	156
F49E2.5F.2	2028	298
F49E2.5G.1	1637	156
F49E2.5G.2	1779	298
F49E2.5H.1	3500	156
F49E2.5H.2	3642	298
F49E2.5I.1	4038	156
F49E2.5I.2	4180	298
F49E2.5J.1	3791	156
F49E2.5J.2	3933	298
F49E2.5K.1	2588	1004
F49E2.5K.2	2730	1146
F49E7.1A	3424	361
F49E7.1B	629	312
F49E7.2	754	493
F49E8.1A	1814	936
F49E8.1B	1803	936
F49E8.2A	1338	1153
F49E8.2B	1332	1150
F49E8.3A	2815	668
F49E8.3B	3006	859
F49E8.4	635	112
F49E8.5.1	1030	260
F49E8.5.2	1168	291
F49E8.6	898	283
F49E8.7A.1	1692	16
F49E8.7A.2	1774	98
F49E8.7B	1529	14
F49F1.11	684	368
F49F1.12	546	80
F49F1.14	530	310
F49F1.15	164	63
F49F1.17	301	92
F49F1.18	588	281
F49F1.1	908	465
F49F1.4	159	63
F49F1.5A	528	45
F49F1.5B	395	45
F49F1.6	858	685
F49F1.7A	838	97
F49F1.7B	494	1
F49F1.8	1848	838
F49F1.9	633	326

F49H12.12	644	162
F49H12.1A	1749	272
F49H12.1B.1	1588	111
F49H12.1B.2	1599	122
F49H12.2	645	188
F49H12.3	503	124
F49H12.4	724	72
F49H12.5	998	284
F49H12.6A.1	2311	1575
F49H12.6A.2	2330	1594
F49H12.6B	1476	1031
F49H12.7	481	125
F49H6.11	984	117
F49H6.12	327	49
F49H6.15	252	27
F49H6.1	609	426
F49H6.17	237	42
F49H6.2	639	134
F49H6.3	539	96
F49H6.4	1059	924
F49H6.5	1307	963
F49H6.8	294	76
F52A8.1	945	197
F52A8.2	1428	394
F52A8.3A	414	85
F52A8.4A	1019	52
F52A8.4B	1022	32
F52A8.5.1	657	98
F52A8.5.2	596	36
F52A8.6A	1429	562
F52A8.6B	729	395
F52A8.6C.1	1375	508
F52A8.6C.2	1171	304
F52A8.6C.3	1265	398
F52A8.6C.4	1192	325
F52B10.14	217	29
F52B10.16	146	73
F52B10.1	6384	272
F52B10.19	144	29
F52B10.21	181	33
F52B10.3	1198	395
F52B10.7	141	61
F52B11.1A.1	2069	388
F52B11.1A.2	1843	388

F52B11.1B.1	1785	794
F52B11.1B.2	1559	794
F52B11.1C.1	1878	197
F52B11.1C.2	1652	197
F52B11.1D.1	1890	209
F52B11.1D.2	1664	209
F52B11.1E.1	1547	556
F52B11.1E.2	1321	556
F52B11.1F.1	940	155
F52B11.1F.2	714	155
F52B11.1G	673	71
F52B11.2A	884	45
F52B11.2B	797	84
F52B11.3	2564	2035
F52B11.6	419	289
F52B5.1A	3782	3231
F52B5.1B	3945	3389
F52B5.1C	4100	3549
F52B5.2	1254	386
F52B5.3	4506	1955
F52B5.5A.1	2092	1686
F52B5.5A.2	2141	1735
F52B5.5B	929	523
F52B5.6.1	495	292
F52B5.6.2	490	292
F52B5.6.3	492	292
F52B5.6.4	517	313
F52B5.7	995	192
F52B5.9	215	75
F52C12.1A	1474	958
F52C12.1B	1466	950
F52C12.1C	165	76
F52C12.2.1	931	381
F52C12.2.2	947	397
F52C12.3	1234	155
F52C12.4A	4602	2077
F52C12.4B	4608	2083
F52C12.4C	4641	2077
F52C12.4D	4647	2083
F52C12.4E	5320	2077
F52C12.4F	4602	2083
F52C12.4G	4635	2077
F52C12.4H	4641	2083
F52C12.5.1	1402	72

F52C12.5.2	1525	195
F52C12.6A	779	617
F52C12.6B	423	302
F52C12.6C	234	113
F52C6.10	906	428
F52C6.11	1084	609
F52C6.12.1	607	285
F52C6.12.2	538	251
F52C6.12.3	354	220
F52C6.14	2494	722
F52C6.4	456	270
F52C6.5	1134	302
F52C6.6	344	63
F52C9.1.1	4353	1615
F52C9.1.2	4491	1753
F52C9.3	1544	1195
F52C9.5	1946	825
F52C9.7	1419	1192
F52C9.8A	3364	22
F52C9.8B	5319	22
F52C9.8C	2388	22
F52C9.8D.1	2326	1599
F52C9.8D.2	2173	20
F52C9.8E	2171	1444
F52C9.8F	1691	964
F52C9.8G	2380	8
F52D10.10	147	63
F52D10.1	2284	2065
F52D10.2	1602	788
F52D10.3A.1	1125	407
F52D10.3A.2	968	407
F52D10.3B	958	407
F52D10.4	1289	1032
F52D10.5	804	301
F52D10.6	1953	1676
F52D1.1.1	2844	2398
F52D1.1.2	2829	2398
F52D1.2	605	282
F52D1.3	2739	778
F52D2.12	2325	1114
F52D2.13	174	60
F52D2.4.1	2780	1615
F52D2.4.2	2775	1615
F52D2.5	360	253

F52D2.7	1617	702
F52D2.8A	598	299
F52D2.8B	930	175
F52D2.9	945	314
F52E10.1	3758	2140
F52E10.4	299	205
F52E10.5	1988	1380
F52E1.10	1473	1159
F52E1.1	1119	385
F52E1.13A	3063	721
F52E1.13B.1	2086	15
F52E1.13B.2	1834	1023
F52E1.13C	2986	644
F52E1.13D	2532	721
F52E1.14	694	270
F52E1.2	667	228
F52E1.3	720	288
F52E1.4A	3138	548
F52E1.4B	3336	548
F52E1.5	761	145
F52E1.7A	547	228
F52E1.7B	567	212
F52E1.8	1213	173
F52E1.9	949	127
F52E4.1A.1	2248	112
F52E4.1A.2	2407	271
F52E4.1B	2249	25
F52E4.4	1668	1072
F52E4.5	1153	488
F52E4.6	1560	974
F52E4.7	2781	274
F52E4.8	1488	956
F52F10.2	1887	1514
F52F10.3	2244	588
F52F10.4	2079	1786
F52F10.5	794	599
F52F12.13	219	22
F52F12.15	184	28
F52F12.18	525	139
F52F12.1A	1896	1626
F52F12.1B	1833	1563
F52F12.2	1113	118
F52F12.3	2119	242
F52F12.4	1066	31

F52F12.6A	3091	1183
F52F12.6B	1528	980
F52F12.7A	915	562
F52F12.7B	866	505
F52F12.8	435	193
F52F12.9	1218	24
F52G2.1A	2595	32
F52G2.1B	2611	1527
F52G2.2A	4085	2756
F52G2.2B	3882	2553
F52G2.2C	1379	50
F52G2.2D	2747	1418
F52G2.3	2013	500
F52G3.1	3960	3506
F52G3.3	2424	1498
F52G3.4	3030	634
F52G3.5	1253	584
F52G3.6	195	74
F52H2.12	132	14
F52H2.1	2214	1079
F52H2.13	203	74
F52H2.15	354	47
F52H2.2	1739	29
F52H2.3	572	205
F52H2.4	1545	65
F52H2.5.1	996	115
F52H2.5.2	947	66
F52H2.6	1970	1378
F52H2.7	2769	2088
F52H2.9	132	12
F52H3.1.1	2339	1509
F52H3.1.2	2355	1525
F52H3.1.3	2418	1588
F52H3.2	2188	1228
F52H3.3	1472	186
F52H3.4	1244	795
F52H3.5	618	161
F52H3.7A.1	4039	3775
F52H3.7A.2	4197	3775
F52H3.7B	1172	745
F53A10.2A	2551	987
F53A10.2B	1880	1121
F53A10.2C	2751	1187
F53A2.11	1362	494

F53A2.1	1212	763
F53A2.2	831	366
F53A2.3	1115	136
F53A2.4	1035	25
F53A2.5	572	336
F53A2.6A	968	638
F53A2.6B.1	747	417
F53A2.6B.2	835	505
F53A2.7.1	1384	1100
F53A2.7.2	1386	1102
F53A2.8A	2659	294
F53A2.8B.1	2974	341
F53A2.8B.2	3041	408
F53A2.8C	2653	290
F53A2.9	1278	835
F53A3.1	614	144
F53A3.2	1764	751
F53A3.3A.1	467	45
F53A3.3A.2	482	60
F53A3.3A.3	635	213
F53A3.3A.4	483	61
F53A3.3B	506	99
F53A3.4A	6286	2346
F53A3.4B	6391	2346
F53A3.4C	4437	2346
F53A3.4D	1579	402
F53A9.10A	1502	188
F53A9.10B.1	1489	176
F53A9.10B.2	1700	1267
F53A9.10B.3	1309	876
F53A9.12	174	66
F53A9.13	197	20
F53A9.1	432	101
F53A9.2	453	52
F53A9.3	499	246
F53A9.4	1267	12
F53A9.5	1305	1135
F53A9.7	466	176
F53A9.8	417	75
F53A9.9	537	328
F53B1.12	259	154
F53B1.13	223	60
F53B1.14	146	45
F53B1.2	2172	37

F53B1.3	465	161
F53B1.4	1029	196
F53B1.6	1553	1001
F53B1.7	1158	655
F53B1.8	3233	963
F53B1.9	159	54
F53B2.15	142	23
F53B2.3	744	171
F53B2.4	978	178
F53B2.5	1433	172
F53B2.6	1821	949
F53B3.1	1981	375
F53B3.12	139	16
F53B3.2	2090	880
F53B3.3	2233	1064
F53B3.5	1549	467
F53B6.1	1115	41
F53B6.2A	3349	1759
F53B6.2B	2362	772
F53B6.2C	3343	1753
F53B6.4A	1104	154
F53B6.4B	1034	84
F53B6.5	549	401
F53B6.6	1758	1481
F53B6.7	1034	158
F53B7.10	143	22
F53B7.2A	1599	58
F53B7.2B	1572	58
F53B7.3.1	1119	61
F53B7.3.2	886	61
F53B7.3.3	1212	154
F53B7.4	1133	401
F53B7.5A	533	60
F53B7.5B	8795	1940
F53B7.7.1	425	134
F53B7.7.2	399	108
F53C11.1A	1575	935
F53C11.1B	1478	838
F53C11.3	1510	838
F53C11.4A.1	2234	251
F53C11.4A.2	2782	799
F53C11.4B.1	2243	251
F53C11.4B.2	2791	799
F53C11.5A	2886	1229

F53C11.5B	3102	1445
F53C11.5C	2819	1162
F53C11.6	1845	830
F53C11.7.1	2181	1234
F53C11.7.2	2182	1235
F53C11.8	1555	472
F53C11.9	434	224
F53C3.11	1278	361
F53C3.12	1653	947
F53C3.13A	1240	326
F53C3.13B.1	2189	326
F53C3.13B.2	2146	326
F53C3.13C	1486	326
F53C3.1	987	530
F53C3.2	990	2
F53C3.3	1004	309
F53C3.4	910	69
F53C3.5	842	410
F53C3.6A	915	521
F53C3.6B	946	552
F53C3.7	972	631
F53C3.8	828	26
F53E10.1	1128	617
F53E10.2A	1359	518
F53E10.2B	1616	518
F53E10.4	767	513
F53E10.5	1383	1190
F53E10.6	673	136
F53E2.1	1357	949
F53E4.1A	1635	40
F53E4.1B	1617	40
F53E4.1C.1	959	179
F53E4.1C.2	1461	323
F53E4.1C.3	1601	8
F53E4.2	189	17
F53F10.1	787	22
F53F10.2A.1	2420	574
F53F10.2A.2	2156	310
F53F10.2A.3	1775	1216
F53F10.2B.1	1929	574
F53F10.2B.2	1665	310
F53F10.2B.3	1284	725
F53F10.3.1	514	164
F53F10.3.2	537	175

F53F10.4	1120	329
F53F10.5.1	2602	96
F53F10.5.2	2680	174
F53F10.8.1	401	169
F53F10.8.2	884	169
F53F1.10	1014	682
F53F1.1	1200	462
F53F1.14	436	180
F53F1.2	1035	432
F53F1.3	905	505
F53F1.5	871	100
F53F1.6A	945	280
F53F1.6B	993	280
F53F1.7	1014	330
F53F1.8	1130	571
F53F1.9	1008	430
F53F4.10	856	491
F53F4.11	1833	632
F53F4.12	1268	755
F53F4.13	450	19
F53F4.14.1	1689	66
F53F4.14.2	1729	106
F53F4.15	354	107
F53F4.16	392	54
F53F4.17.1	337	56
F53F4.17.2	220	15
F53F4.22	215	57
F53F4.23	225	37
F53F4.2	393	265
F53F4.24	216	61
F53F4.3	901	369
F53F4.4A	2186	1674
F53F4.4B	282	28
F53F4.4C	2189	1674
F53F4.4D	2049	1537
F53F4.5A	1999	100
F53F4.5B	1711	93
F53F4.6A	1011	544
F53F4.6B	1002	882
F53F4.7	1120	341
F53F4.9A	1087	60
F53F8.1	1003	234
F53F8.2	942	690
F53F8.3	857	400

F53F8.4	951	372
F53F8.5	1107	811
F53F8.6	339	52
F53F8.7	219	15
F53G12.10.1	833	507
F53G12.10.2	798	507
F53G12.1.1	1228	135
F53G12.1.2	1248	155
F53G12.12	134	32
F53G12.3	4512	2999
F53G12.4	1070	450
F53G12.5A	1732	137
F53G12.5B	1815	229
F53G12.5C.1	1354	131
F53G12.5C.2	1187	393
F53G12.6	1544	69
F53G12.7A	1085	84
F53G12.7B	878	160
F53G12.9A	770	202
F53G12.9B	237	48
F53G2.1	2145	617
F53G2.2	1168	78
F53G2.3	384	195
F53G2.4A	1678	253
F53G2.4B	1629	253
F53G2.4C	1166	462
F53G2.6	3197	204
F53G2.7.1	1848	1146
F53G2.7.2	1602	900
F53H10.2A	3157	1100
F53H10.2B	2414	357
F53H10.2C	2195	138
F53H10.2D	2335	278
F53H1.1A	3089	2499
F53H1.1C	2678	2088
F53H1.1E	894	304
F53H1.3A	1814	1041
F53H1.3B	532	253
F53H1.4A	3886	1043
F53H1.4B	4310	914
F53H2.1	2840	2402
F53H2.2	275	54
F53H2.3B	1908	315
F53H2.3C	1188	533

F53H2.3D	1606	406
F53H4.1	3276	1904
F53H4.2.1	706	343
F53H4.2.2	710	343
F53H4.3	839	331
F53H4.4	1242	433
F53H4.5	1509	203
F53H4.6	2809	678
F53H8.1	1454	626
F53H8.2	1530	817
F53H8.3	1850	1374
F53H8.4	1339	308
F54A3.2	2660	1190
F54A3.4	2021	925
F54A3.5	448	99
F54A3.6	1638	821
F54A5.1	1658	444
F54A5.2A	1190	607
F54A5.2B.1	905	322
F54A5.2B.2	793	210
F54A5.3A	1032	161
F54A5.3B	568	140
F54A5.3C	578	391
F54A5.3D	666	163
F54B11.10	455	165
F54B11.1	1020	133
F54B11.11	1827	441
F54B11.3A	3672	126
F54B11.3B	3606	126
F54B11.4	712	607
F54B11.6	836	351
F54B11.7	954	254
F54B11.8	591	225
F54B11.9	654	397
F54B3.1A	11016	7387
F54B3.1B	11010	7387
F54B3.2	1104	46
F54B3.3	2088	1349
F54B3.4	285	15
F54B8.1	502	71
F54B8.3	1259	182
F54B8.4A.1	557	297
F54B8.4A.2	557	297
F54B8.4B	397	137

F54B8.5	270	63
F54B8.7A	852	581
F54B8.7B	621	350
F54C1.1	1766	29
F54C1.2.1	1249	538
F54C1.2.2	1348	638
F54C1.3A	3012	1295
F54C1.3B	2108	1295
F54C1.5A	2198	682
F54C1.5B.1	1993	477
F54C1.5B.2	2401	885
F54C1.6	843	334
F54C1.7.1	767	562
F54C1.7.2	655	562
F54C1.7.3	638	562
F54C1.7.4	669	28
F54C1.7.5	621	28
F54C1.7.6	663	513
F54C1.7.7	611	28
F54C1.7.8	738	28
F54C1.9	804	448
F54C4.1	664	304
F54C4.2	596	212
F54C4.3A	3798	3487
F54C4.3B	3531	3220
F54C4.4	543	282
F54C8.1	948	639
F54C8.2	880	60
F54C8.3	3667	2583
F54C8.4A	1548	469
F54C8.4B	1119	40
F54C8.5	1013	432
F54C8.6A	927	19
F54C8.6B	978	100
F54C8.6C	829	32
F54C8.6D	606	324
F54C8.7A	1157	85
F54C8.7B	1178	11
F54C8.7C	1062	393
F54C8.7D	1064	395
F54C8.7E	923	254
F54C8.7F	718	49
F54C9.10.1	966	234
F54C9.10.2	1021	289

F54C9.11	1179	877
F54C9.1.1	910	82
F54C9.1.2	980	152
F54C9.14	717	530
F54C9.16	142	25
F54C9.2	1685	232
F54C9.3	338	44
F54C9.4	928	106
F54C9.5	979	689
F54C9.6A.1	1412	1127
F54C9.6A.2	1423	1138
F54C9.6B.1	1412	1127
F54C9.6B.2	1375	1090
F54C9.6B.3	1423	1138
F54C9.7	1078	97
F54C9.8	2004	971
F54C9.9	2350	39
F54D10.1	1468	151
F54D10.3	1119	657
F54D10.4.1	989	106
F54D10.4.2	1015	106
F54D10.5	977	56
F54D10.7	896	528
F54D10.8	1426	183
F54D10.9	1338	1097
F54D11.1.1	1577	1355
F54D11.1.2	1574	1355
F54D11.2.1	3708	3040
F54D11.2.2	3761	3040
F54D11.2.3	3560	3040
F54D11.3	1093	229
F54D11.4	701	483
F54D1.1	870	165
F54D12.11	408	149
F54D12.1	813	219
F54D12.2	861	421
F54D12.3	1503	970
F54D12.6A	1800	1360
F54D12.6B	1791	1351
F54D12.7	1311	438
F54D12.8	1011	257
F54D12.9	483	313
F54D1.4	1692	675
F54D1.5	4313	43

F54D1.6	4872	1770
F54D5.11.1	929	519
F54D5.11.2	989	579
F54D5.12	1537	128
F54D5.14	3731	283
F54D5.15A	1811	440
F54D5.15B.1	1634	263
F54D5.15B.2	1727	356
F54D5.15C	1805	434
F54D5.17	363	10
F54D5.18	150	74
F54D5.1A	1364	189
F54D5.1B	1318	143
F54D5.20	205	44
F54D5.2	1419	755
F54D5.23	457	50
F54D5.3	620	21
F54D5.4	620	35
F54D5.5A	1409	1027
F54D5.5B	1587	1205
F54D5.7.1	1366	478
F54D5.7.2	1402	514
F54D5.7.3	1367	478
F54D5.8	1404	816
F54D5.9	1927	165
F54D7.2	1449	347
F54D7.3A	1206	608
F54D7.3B	1196	608
F54D7.4	766	554
F54D7.7	293	1
F54D7.8	148	21
F54D8.1	1124	352
F54D8.2.1	493	118
F54D8.2.2	490	118
F54D8.2.3	546	118
F54D8.2.4	526	118
F54D8.2.5	501	118
F54D8.3A.1	1608	143
F54D8.3A.2	1703	143
F54D8.3B.1	1607	143
F54D8.3B.2	1702	143
F54D8.3B.3	1666	201
F54D8.3B.4	1387	1201
F54D8.4	1098	515

F54D8.6	2564	1863
F54E12.2.1	3443	2321
F54E12.2.2	3512	2390
F54E2.1	1271	362
F54E2.2	606	198
F54E2.3A	14161	3447
F54E2.3B	13098	2433
F54E2.3C	13273	2682
F54E2.3D	12990	2682
F54E2.3E	15313	4599
F54E2.3F	15190	4599
F54E2.3G	15535	4599
F54E2.3H	15412	4599
F54E2.3I	13618	2682
F54E2.3J	13495	2682
F54E2.5	2254	1367
F54E2.8	802	450
F54E4.1A	9636	5303
F54E4.2	1104	79
F54E4.3	1473	573
F54E4.4	1464	1073
F54E4.5	213	23
F54E4.9	340	204
F54E7.1A	1208	486
F54E7.1B.1	1177	455
F54E7.1B.2	1133	411
F54E7.1B.3	1130	408
F54E7.1B.4	1157	435
F54E7.2.1	494	165
F54E7.2.2	491	165
F54E7.2.3	550	224
F54E7.3A	4153	2779
F54E7.3B.1	4843	4166
F54E7.3B.2	4162	2779
F54E7.3C	4045	2671
F54E7.3D	4701	4022
F54E7.3E	4692	4013
F54E7.3F	4538	3840
F54E7.3G	3925	2542
F54E7.3H	4929	4250
F54E7.3I	4938	4259
F54E7.3J	4006	283
F54E7.3K	4015	283
F54E7.3L	3769	94

F54E7.3M	3778	94
F54E7.5	1156	496
F54E7.6	783	631
F54E7.7	985	494
F54E7.8	943	540
F54E7.9	520	202
F54F11.1	912	517
F54F11.2A	4894	2620
F54F11.2B	4837	2563
F54F11.3	1110	614
F54F12.1	3654	2878
F54F12.2A	1119	299
F54F12.2B	789	545
F54F12.2C	787	29
F54F2.1	3973	3478
F54F2.2A.1	3342	22
F54F2.2A.2	3482	162
F54F2.2B	644	519
F54F2.2C	2686	1101
F54F2.5A	1923	1292
F54F2.5B	1113	482
F54F2.7	607	99
F54F2.8.1	1206	521
F54F2.8.2	1240	555
F54F2.9	1693	313
F54F3.1A	5020	1046
F54F3.1B	4849	1046
F54F3.1C	4012	1046
F54F3.3	1325	133
F54F3.4	838	563
F54F3.5	582	364
F54F7.1	776	407
F54F7.2	1203	67
F54F7.3	659	338
F54F7.4	1274	450
F54F7.5	3378	1316
F54F7.6.1	1027	704
F54F7.6.2	1031	704
F54F7.7	1093	200
F54F7.8	647	481
F54F7.9	751	164
F54G2.1A	4269	2581
F54G2.1B	3422	2179
F54G2.1C	3891	2179

F54G2.2	3072	742
F54G2.3	205	52
F54G8.1	1194	141
F54G8.2	2388	598
F54G8.3	3806	3230
F54G8.4	3228	1204
F54G8.5	2555	2220
F54H12.1A	2709	59
F54H12.1B	2365	251
F54H12.1C.1	2500	148
F54H12.1C.2	2562	210
F54H12.2	1260	638
F54H12.6	840	572
F54H12.7	516	112
F54H12.8	1800	90
F54H5.10	231	130
F54H5.13	1587	608
F54H5.3	906	680
F54H5.4A	1179	450
F54H5.4B	1257	528
F54H5.5	2172	688
F55A11.11	996	633
F55A11.13	146	21
F55A11.1	953	372
F55A11.2	1504	830
F55A11.3	2083	965
F55A11.4A	1818	792
F55A11.4B	1872	846
F55A11.5	1375	842
F55A11.6A	810	374
F55A11.6B	657	221
F55A11.6C	894	458
F55A11.6D	816	380
F55A11.6E	643	72
F55A11.7	1722	211
F55A11.8A	790	477
F55A11.8B	613	307
F55A12.10	742	542
F55A12.1	2851	1651
F55A12.14	148	56
F55A12.17	497	61
F55A12.2A	873	475
F55A12.2B	894	469
F55A12.2C	1010	585

F55A12.3	2395	16
F55A12.4A	1224	244
F55A12.4B	1383	247
F55A12.4C	1208	228
F55A12.5	2692	240
F55A12.6	1344	1117
F55A12.7	1604	156
F55A12.8	3270	2250
F55A12.9A	2087	1392
F55A12.9B	1965	1270
F55A12.9C	1995	1300
F55A12.9D.1	1908	1213
F55A12.9D.2	2071	1376
F55A3.1	3610	116
F55A3.2	2606	1247
F55A3.3	3346	2406
F55A3.6	357	241
F55A4.10	2117	1398
F55A4.1	814	317
F55A4.2	1655	880
F55A4.3	213	32
F55A4.5	2642	106
F55A4.7	559	313
F55A4.8A	2094	269
F55A4.8B	1728	1295
F55A4.8C	661	298
F55A4.8D	1337	215
F55A8.1A.1	1403	95
F55A8.1A.2	1442	134
F55A8.1B	1412	95
F55A8.2A.1	3098	185
F55A8.2A.2	2883	185
F55A8.2B.1	2951	2158
F55A8.2B.2	2736	2158
F55A8.2C.1	2935	2142
F55A8.2C.2	2720	2142
F55A8.2D	1240	161
F55A8.2E.1	3015	2222
F55A8.2E.2	2800	2222
F55A8.2F.1	2193	1400
F55A8.2F.2	1978	1400
F55A8.2G.1	2446	176
F55A8.2G.2	2231	176
F55A8.2G.3	2676	1883

F55A8.2H.1	3107	185
F55A8.2H.2	2892	185
F55A8.3	198	78
F55A8.6	149	70
F55B11.1	4149	299
F55B11.4	551	294
F55B11.6.1	484	70
F55B11.6.2	414	70
F55B11.7	987	789
F55B12.10	252	77
F55B12.13	217	31
F55B12.14	157	7
F55B12.15	210	73
F55B12.1	900	679
F55B12.2	984	114
F55B12.3A	2478	1552
F55B12.3B.1	2471	1545
F55B12.3B.2	2535	1609
F55B12.3C	1881	1664
F55B12.4.1	1425	292
F55B12.4.2	1487	354
F55B12.4.3	1413	280
F55B12.5.1	1873	504
F55B12.5.2	1932	563
F55B12.6	1233	356
F55B12.7	1020	510
F55B12.8	867	16
F55B12.9	1528	1186
F55C10.1A	979	23
F55C10.1B	686	23
F55C10.4	1661	180
F55C10.5	440	130
F55C12.10	207	60
F55C12.1A.1	1822	955
F55C12.1A.2	1961	1094
F55C12.1B	1964	1097
F55C12.1C	1794	927
F55C12.1D	1934	1067
F55C12.4	894	62
F55C12.5A	3050	2274
F55C12.5B	3248	34
F55C12.5C	1840	34
F55C12.7.1	352	180
F55C12.7.2	603	180

F55C12.7.3	371	180
F55C12.8	349	213
F55C12.9	149	73
F55C5.10	466	36
F55C5.11	633	239
F55C5.12	126	4
F55C5.1	478	257
F55C5.3A.1	1832	1087
F55C5.3A.2	1902	1157
F55C5.3B.1	2014	1087
F55C5.3B.2	2084	1157
F55C5.4	3188	1314
F55C5.5	1094	197
F55C5.7A	2722	260
F55C5.7B.1	772	260
F55C5.7B.2	773	260
F55C5.8	2269	390
F55C5.9	1002	448
F55C7.2	267	6
F55C7.7A	7473	120
F55C7.7B	4917	120
F55C7.7C	3044	284
F55C7.7D.1	2039	146
F55C7.7D.2	2244	146
F55C7.7E.1	2142	204
F55C7.7E.2	2347	204
F55C7.7F.1	2175	61
F55C7.7F.2	2380	61
F55C7.7G.1	2401	284
F55C7.7G.2	2606	284
F55C7.7H	2785	204
F55C7.7I	6538	120
F55C9.1	1032	107
F55C9.14	855	86
F55C9.15	366	216
F55C9.4	867	48
F55C9.5	441	198
F55C9.6	417	258
F55C9.7	842	22
F55C9.8	843	148
F55D10.1.1	2969	2371
F55D10.1.2	3100	2502
F55D10.2	499	279
F55D10.3	2434	295

F55D10.4	1200	177
F55D10.5	1629	1052
F55D1.1	276	71
F55D12.1	825	408
F55D12.2A	2479	1062
F55D12.2B	2279	862
F55D12.4A	1119	92
F55D12.4B	1080	92
F55D12.5A	2188	1597
F55D12.5B	1659	1068
F55D12.6	601	181
F55E10.1	312	69
F55E10.2	294	40
F55E10.4	342	226
F55E10.5	1272	1048
F55E10.6	1189	556
F55E10.7	2183	1039
F55F10.1A	6685	1492
F55F10.1B	13393	3627
F55F10.3	606	67
F55F1.8	186	35
F55F3.1.1	1094	469
F55F3.1.2	1114	469
F55F3.2A	1714	752
F55F3.2B	1714	752
F55F3.3A	1709	159
F55F3.3B	1632	82
F55F3.4	2646	512
F55F8.1.1	2886	2422
F55F8.1.2	2930	2466
F55F8.2A	2381	982
F55F8.2B	2440	1041
F55F8.3	3003	2304
F55F8.4.1	1824	939
F55F8.4.2	1834	949
F55F8.5.1	1445	307
F55F8.5.2	1646	508
F55F8.6	746	219
F55F8.8	772	7
F55F8.9A	1963	53
F55F8.9B	1855	53
F55G1.10	470	273
F55G1.1	1006	103
F55G11.10	1047	468

F55G11.1	1014	439
F55G11.13	225	42
F55G11.2	1078	355
F55G1.13	2661	29
F55G11.4	1083	912
F55G1.15	1879	730
F55G11.5A	1226	414
F55G11.5B	1036	224
F55G11.6	1023	670
F55G11.7.1	1042	824
F55G11.7.2	1129	911
F55G11.8	1143	949
F55G1.4	6343	4379
F55G1.5	1063	217
F55G1.6	1273	679
F55G1.7A	1203	203
F55G1.7B	1071	71
F55G1.7C	1113	119
F55G1.7D	1197	203
F55G1.8.1	2052	279
F55G1.8.2	2183	410
F55G1.9	1051	93
F55G7.1	1188	1050
F55G7.2	1152	616
F55G7.3	699	521
F55G7.4	630	366
F55G7.5	435	135
F55H12.1	2372	965
F55H12.2	503	244
F55H12.3	8970	7373
F55H12.4	733	210
F55H12.5	988	478
F55H12.6A	1068	345
F55H12.6B	1006	575
F55H12.6C	611	180
F55H12.7B	245	64
F55H12.9	166	67
F55H2.1A	740	296
F55H2.1B	838	494
F55H2.2.1	1150	280
F55H2.2.2	1176	306
F55H2.5	970	563
F55H2.6	4387	103
F55H2.7.1	1338	756

F55H2.7.2	1371	756
F56A11.12	173	75
F56A11.1	4092	3103
F56A11.3	1277	386
F56A11.4A	1371	786
F56A11.4B	1251	681
F56A11.5A	1133	387
F56A11.5B	1139	387
F56A11.6	1401	700
F56A11.7	381	168
F56A12.10	288	174
F56A12.1	1096	368
F56A12.2	1282	1095
F56A3.1	2476	1661
F56A3.2	1431	18
F56A3.3A.1	4893	3500
F56A3.3A.2	4865	3500
F56A3.3B	2670	2485
F56A3.4	3807	1974
F56A3.5	501	229
F56A4.10	1359	1161
F56A4.11	2241	1907
F56A4.12	1419	974
F56A4.4	441	166
F56A4.7	1023	878
F56A6.1A	2816	1144
F56A6.1B	2820	1144
F56A6.2A	5683	2484
F56A6.2B	5644	2484
F56A6.4A	1435	654
F56A6.4B	645	198
F56A6.4C	1252	471
F56A6.4D	1091	310
F56A6.5	723	126
F56A8.1A	2490	224
F56A8.1B	2523	257
F56A8.3A.1	1629	540
F56A8.3A.2	1719	540
F56A8.3B.1	1077	143
F56A8.3B.2	1167	143
F56A8.3B.3	1343	409
F56A8.3B.4	1610	676
F56A8.3B.5	1158	224
F56A8.4	975	31

F56A8.5	1647	731
F56A8.6.1	1093	359
F56A8.6.2	1107	373
F56A8.7A	1017	847
F56A8.7B	1478	151
F56A8.8	765	525
F56A8.9	809	364
F56B3.10	706	515
F56B3.1	1171	113
F56B3.11A	719	264
F56B3.11B	697	1
F56B3.12	593	36
F56B3.2	1582	1343
F56B3.4A	1993	968
F56B3.4B	1737	968
F56B3.5	1400	264
F56B3.6	715	126
F56B3.7	1640	1266
F56B3.8A	1085	355
F56B3.8B	298	65
F56B3.9	510	267
F56B6.2A	2967	446
F56B6.2B	2818	297
F56B6.2C	1761	302
F56B6.2D	1115	513
F56B6.2E	1652	193
F56B6.2F	1219	617
F56B6.2G	1097	495
F56B6.4A	1597	1149
F56B6.4B	1174	287
F56B6.4C	1178	771
F56B6.5A	1417	366
F56B6.5B	1399	366
F56B6.6	501	1
F56C11.1	4660	4322
F56C11.2A	2698	92
F56C11.2B	2242	1486
F56C11.3	546	36
F56C11.5A	1020	648
F56C11.5B	897	525
F56C11.6A	1716	203
F56C11.6B	1745	232
F56C11.6C	1696	1033
F56C3.1	861	404

F56C3.2	1467	1123
F56C3.3	501	150
F56C3.4	1163	197
F56C3.5	636	435
F56C3.6	1200	300
F56C3.9	749	501
F56C4.1	1027	521
F56C4.2	600	329
F56C4.3A	820	631
F56C4.3B	880	498
F56C4.4A.1	437	74
F56C4.4A.2	817	70
F56C4.4B	720	124
F56C9.10A	3603	1229
F56C9.10B	3601	1227
F56C9.1	1610	713
F56C9.11	924	506
F56C9.3	1624	102
F56C9.5	441	188
F56C9.6A	1190	98
F56C9.6B	1232	101
F56C9.6C	1205	101
F56C9.7.1	782	236
F56C9.7.2	1056	510
F56C9.8	932	270
F56D1.10	193	43
F56D1.1	1602	357
F56D12.1A.1	1840	157
F56D12.1A.2	1936	253
F56D12.1A.3	1850	167
F56D12.1B.1	1542	157
F56D12.1B.2	1638	253
F56D12.1B.3	1552	167
F56D12.1C.1	1823	157
F56D12.1C.2	1919	253
F56D12.1C.3	1833	167
F56D12.1D.1	1660	17
F56D12.1D.2	1936	253
F56D1.2	2460	1961
F56D12.4A	3104	1371
F56D12.4B	1698	415
F56D12.4C	1221	787
F56D12.5A.1	1465	879
F56D12.5A.2	1774	879

F56D12.5B	823	158
F56D12.6A	3136	1781
F56D12.6B	3090	1735
F56D1.3	664	255
F56D1.4A	4650	3696
F56D1.4B	4755	3801
F56D1.4C	2829	241
F56D1.4D	4755	3801
F56D1.5	1328	761
F56D1.6	619	65
F56D1.7	1998	424
F56D2.1	2093	156
F56D2.2	1390	735
F56D2.3	1503	469
F56D2.4	699	114
F56D2.5	1643	231
F56D2.6A	2475	1659
F56D2.6B	2353	1659
F56D2.7	2063	666
F56D2.8	652	81
F56D2.9	147	56
F56D3.1.1	1615	913
F56D3.1.2	1668	966
F56D5.10	852	282
F56D5.1	1135	741
F56D5.2	1213	231
F56D5.3	1350	889
F56D5.5	889	354
F56D5.6A	1863	909
F56D5.6B	1763	809
F56D5.6C	275	110
F56D6.10	289	108
F56D6.11	381	176
F56D6.1	1402	702
F56D6.12	372	148
F56D6.13	404	273
F56D6.14	341	156
F56D6.18	267	68
F56D6.19	171	41
F56D6.20	189	17
F56D6.21	453	253
F56D6.2	2056	769
F56D6.22	335	51
F56D6.4	1005	247

F56D6.5A	987	534
F56D6.5B	669	216
F56D6.6	390	215
F56D6.7	984	231
F56D6.8	214	51
F56D6.9	276	82
F56E10.1	1077	45
F56E10.2	3261	1734
F56E10.4.1	356	115
F56E10.4.2	351	115
F56E3.11	175	67
F56E3.12	197	14
F56E3.15	362	76
F56E3.19	130	37
F56E3.20	243	24
F56E3.3A	5105	4519
F56E3.3B	5156	2966
F56E3.3C	5048	2966
F56E3.4A	1376	315
F56E3.4B	1173	283
F56E3.5	210	38
F56E3.7	156	24
F56F10.1.1	1707	1029
F56F10.1.2	1793	1115
F56F10.2	1161	414
F56F10.3	999	698
F56F10.4	3054	1949
F56F11.1	519	84
F56F11.2	1206	278
F56F11.3.1	1711	598
F56F11.3.2	1873	598
F56F11.4A	1237	803
F56F11.4B	1610	1176
F56F3.10	207	51
F56F3.11	144	27
F56F3.1	3261	2081
F56F3.14	141	59
F56F3.2A	2167	1686
F56F3.2B	2200	1686
F56F3.4	1379	1041
F56F3.5	876	482
F56F3.6	598	155
F56F4.1	500	109
F56F4.2	513	131

F56F4.3	2147	1082
F56F4.5	2404	90
F56F4.8	1135	411
F56G4.1	2023	1669
F56G4.4	1481	916
F56G4.5	2406	1163
F56G4.6	2615	408
F56G4.7	576	381
F56H1.10	570	276
F56H11.1A	2288	1110
F56H11.1B	2269	1110
F56H11.1C	2386	880
F56H1.1	2913	2181
F56H11.2A	808	387
F56H11.2B	626	205
F56H11.2C	473	52
F56H11.3A	930	309
F56H11.3B	846	309
F56H11.4A	1077	117
F56H11.4B.1	1025	67
F56H11.4B.2	921	540
F56H11.4B.3	974	17
F56H11.4B.4	1067	109
F56H11.6	783	170
F56H11.9	132	3
F56H1.2	2921	2203
F56H1.3	3525	111
F56H1.4	1496	926
F56H1.5	3284	2092
F56H1.6	1199	860
F56H1.7	688	75
F56H6.11	1992	1254
F56H6.13	944	352
F56H6.1	984	556
F56H6.2	1122	713
F56H6.4	951	254
F56H6.5	1149	277
F56H6.6	1243	322
F56H6.7	2403	437
F56H6.8	1227	168
F56H6.9	2412	187
F56H9.2A	334	86
F56H9.2B	212	35
F56H9.3	1095	987

F56H9.4A	1138	902
F56H9.4B	1128	892
F56H9.5	3614	2691
F56H9.6	756	440
F56H9.8A	346	18
F56H9.8B	435	74
F57A10.1	1081	194
F57A10.2	557	377
F57A10.3	2217	461
F57A10.4	949	391
F57A10.5	1391	4
F57A10.6A	974	656
F57A10.6B	1019	35
F57A8.10	567	187
F57A8.1.1	1847	318
F57A8.1.2	1928	399
F57A8.2A	1646	718
F57A8.2B	1595	718
F57A8.3A	1077	717
F57A8.3B	791	605
F57A8.4	1262	986
F57A8.6	1158	27
F57A8.7	1464	200
F57A8.8	389	30
F57B10.10	480	187
F57B10.1.1	2915	631
F57B10.1.2	2979	695
F57B10.12	983	530
F57B10.14	282	38
F57B10.3A	1905	402
F57B10.3B.1	1738	235
F57B10.3B.2	1829	326
F57B10.3B.3	1786	283
F57B10.4	2215	1085
F57B10.5	745	405
F57B10.6	2556	28
F57B10.7	2138	1698
F57B10.8	1061	575
F57B10.9	1618	384
F57B1.1	1154	39
F57B1.11	263	160
F57B1.12	141	14
F57B1.13	193	37
F57B1.14	148	4

F57B1.16	221	25
F57B1.2	1657	414
F57B1.3	1038	153
F57B1.4.1	1070	159
F57B1.4.2	1103	2
F57B1.4.3	1115	2
F57B1.5	498	249
F57B1.6A	798	147
F57B1.6B	718	67
F57B1.8A	822	576
F57B1.8B	513	267
F57B1.9A	1074	216
F57B1.9C	995	175
F57B7.12	137	52
F57B7.1A	1798	1321
F57B7.1B	1766	1137
F57B7.2A	1094	108
F57B7.2B	1215	229
F57B7.3	982	56
F57B7.4	1589	769
F57B7.6	163	25
F57B7.7	275	37
F57B7.8	343	168
F57B7.9	204	19
F57B9.10A	1672	90
F57B9.10B	1552	423
F57B9.1	854	349
F57B9.2	8622	6570
F57B9.3	1154	891
F57B9.4A	1220	490
F57B9.4B	1409	714
F57B9.4C	812	490
F57B9.4D	621	490
F57B9.4E	1187	690
F57B9.5	1563	1165
F57B9.6A.1	1629	1028
F57B9.6A.2	1675	1074
F57B9.6B	766	165
F57B9.7A	1343	172
F57B9.7B	1401	169
F57B9.8	1420	1031
F57B9.9	1223	827
F57C12.1	2315	2000
F57C12.2	892	698

F57C12.3	529	80
F57C12.4	4743	389
F57C12.5A	4825	84
F57C12.5B	4843	84
F57C12.5C	4843	84
F57C12.5D.1	1289	11
F57C12.5D.2	1556	466
F57C12.5E	4843	84
F57C12.6	1233	750
F57C2.1	995	74
F57C2.2	983	574
F57C2.3	843	566
F57C2.4	326	82
F57C2.5A.1	1315	913
F57C2.5A.2	1372	970
F57C2.5B.1	1372	970
F57C2.5B.2	1282	880
F57C2.6A	2334	303
F57C2.6B	1740	303
F57C2.6C	281	180
F57C7.12	250	120
F57C7.1A.1	4132	1024
F57C7.1A.2	4286	1178
F57C7.1B.1	4638	1024
F57C7.1B.2	4792	1178
F57C7.2A	2380	213
F57C7.2B	2432	213
F57C7.3A	1498	281
F57C7.3B	1471	254
F57C7.4	4568	1223
F57C7.9	140	40
F57C9.1A.1	1167	667
F57C9.1A.2	1198	20
F57C9.1B	1170	22
F57C9.1C	1105	138
F57C9.2	728	502
F57C9.3A	340	204
F57C9.3B	285	1
F57C9.4A	2059	353
F57C9.4B	2674	353
F57C9.4C	1528	353
F57C9.5	2347	1170
F57C9.6	1316	1065
F57C9.7	1499	438

F57E7.1A	368	57
F57E7.1B	368	57
F57E7.3	993	282
F57E7.4	576	153
F57F10.1A	3260	898
F57F10.1B	2804	442
F57F10.1C	3002	640
F57F4.1	1423	311
F57F4.2	984	662
F57F4.3	6624	6004
F57F4.5	144	36
F57F4.8	144	34
F57F5.1	1421	360
F57F5.2A	2838	1924
F57F5.2B	726	302
F57F5.2C	2844	1930
F57F5.3	849	48
F57F5.4A.1	1990	1456
F57F5.4A.2	2032	1498
F57F5.4B	1052	518
F57F5.5A	2505	995
F57F5.5B	2222	112
F57F5.5C	2651	1141
F57F5.7	150	38
F57F5.8	242	156
F57G12.10	143	53
F57G12.1	2110	304
F57G12.12	308	117
F57G12.2A	711	332
F57G12.2B	942	332
F57G12.3	220	75
F57G12.6	308	73
F57G12.7	145	25
F57G12.8	212	65
F57G4.10	438	326
F57G4.11	1726	671
F57G4.1	939	628
F57G4.8	1262	189
F57G8.1	996	277
F57G8.3A	996	759
F57G8.4	1086	338
F57G8.5	1599	1054
F57G8.6	1175	153
F57G8.7	414	134

F57G9.2	1074	430
F57G9.3	834	292
F57G9.4	1071	776
F57G9.7	1122	58
F57H12.10	365	56
F57H12.1	988	450
F57H12.2	1302	380
F57H12.3	827	110
F57H12.4	1015	593
F57H12.5B	1588	792
F57H12.5C	1608	792
F57H12.6	759	40
F57H12.7A	972	58
F57H12.7B	863	393
F58A3.1A.1	2689	433
F58A3.1A.2	2497	241
F58A3.1B	2396	1091
F58A3.1C	2459	1154
F58A3.2A.1	3662	1177
F58A3.2A.2	3729	1177
F58A3.2A.3	3641	1177
F58A3.2A.4	3590	1177
F58A3.2B.1	3475	990
F58A3.2B.2	3542	990
F58A3.2B.3	3454	990
F58A3.2B.4	3403	990
F58A3.2C	3727	1177
F58A3.2D	3824	1177
F58A3.2E	4116	1177
F58A3.3	915	804
F58A3.4	479	96
F58A3.5	575	162
F58A3.7	201	19
F58A4.10	889	368
F58A4.11	2763	835
F58A4.14A	1389	1
F58A4.14B	997	389
F58A4.17	147	9
F58A4.1	805	424
F58A4.21	148	21
F58A4.2	557	345
F58A4.3	1013	283
F58A4.4A	1296	1020
F58A4.4B	415	139

F58A4.5	2682	2485
F58A4.6	606	435
F58A4.7A	1982	68
F58A4.7B.1	1994	74
F58A4.7B.2	1988	68
F58A4.7C	1979	68
F58A4.7D	496	68
F58A4.8	1979	84
F58A4.9.1	545	96
F58A4.9.2	576	128
F58A6.1	950	743
F58A6.2	888	440
F58A6.4	2001	1417
F58A6.5	972	290
F58A6.6	1108	843
F58B3.2	697	165
F58B3.4	1874	83
F58B3.5A	2996	389
F58B3.5B	2046	389
F58B3.5C	1125	726
F58B3.6	1453	153
F58B3.7	1252	11
F58B3.9	816	163
F58B4.1A	1885	1473
F58B4.1B	2151	1473
F58B4.2	329	63
F58B4.3A	604	274
F58B4.3B	376	58
F58B4.5	1407	1210
F58B4.6	710	298
F58B6.1	1036	782
F58B6.2	2629	2254
F58B6.3A	1052	94
F58B6.3B	2026	1315
F58B6.3C	500	94
F58D12.3	2385	726
F58D2.1	1638	653
F58D2.2	1908	1655
F58D2.4	603	42
F58D2.5	370	14
F58D2.6	539	9
F58D5.1A.1	2408	86
F58D5.1A.2	2342	86
F58D5.2A	665	356

F58D5.2B.1	462	153
F58D5.2B.2	343	34
F58D5.3	1339	974
F58D5.4A	2216	3
F58D5.4B	2094	1
F58D5.4C.1	2100	457
F58D5.4C.2	2173	530
F58D5.5	603	358
F58D5.6	2364	478
F58D5.7	812	406
F58D5.8	1062	907
F58D5.9	663	300
F58D7.1	942	89
F58E10.1A	2664	1456
F58E10.1B	2712	1504
F58E10.1C	1004	264
F58E10.2	666	309
F58E10.3A.1	2163	1686
F58E10.3A.2	2274	1797
F58E10.3A.3	2089	1612
F58E10.3A.4	2143	1666
F58E10.3A.5	2440	1963
F58E10.3B	1992	1867
F58E10.4	1059	684
F58E10.5	855	230
F58E10.6	993	473
F58E10.7	714	367
F58E1.10	1279	1070
F58E1.11	1250	1061
F58E1.12	1221	1025
F58E1.13	729	504
F58E1.2	898	32
F58E1.4	1434	235
F58E1.6A	1645	588
F58E1.6B	2005	588
F58E1.7	906	287
F58E2.2	426	214
F58E2.3	2122	960
F58E2.4	2067	660
F58E2.5	699	195
F58E2.9	1005	112
F58E6.10A	887	118
F58E6.10B	932	118
F58E6.10C	300	85

F58E6.10D	642	41
F58E6.10E	687	42
F58E6.11	661	374
F58E6.1	1704	647
F58E6.12	671	178
F58E6.13A	647	419
F58E6.13B	479	251
F58E6.13C	1566	503
F58E6.15	256	32
F58E6.16	123	48
F58E6.5	1040	467
F58E6.6	729	448
F58E6.8	687	434
F58F12.1	734	90
F58F12.3	1392	1059
F58F12.4	618	246
F58F12.7	131	49
F58F6.1	878	197
F58F6.2	873	70
F58F6.4	1105	206
F58F9.3A	546	34
F58F9.3B	1015	34
F58F9.4	981	60
F58F9.6A	876	5
F58F9.6B	586	161
F58F9.7.1	2075	1194
F58F9.7.2	2069	1188
F58F9.7.3	2107	1226
F58F9.8	872	40
F58F9.9A	861	33
F58F9.9B	810	33
F58G11.11	139	56
F58G11.1A	2663	541
F58G11.1B	2624	2217
F58G1.12	144	48
F58G11.2A	3269	538
F58G11.2B	3251	520
F58G11.2C	3212	129
F58G1.1	3339	2755
F58G11.3A	2272	1686
F58G11.3B	2005	1684
F58G11.4A	1400	1225
F58G11.4B	1378	1203
F58G11.5.1	2160	1201

F58G11.5.2	2172	1213
F58G11.6	1727	1431
F58G1.2A.1	1628	337
F58G1.2A.2	1622	331
F58G1.2A.3	1703	412
F58G1.2B	1659	368
F58G1.4	850	220
F58G1.5	1031	635
F58G1.6	1322	712
F58G1.7	2046	1111
F58G1.8	252	52
F58G1.9	470	173
F58G4.1	6214	1269
F58G4.2	1801	981
F58G4.5	1008	490
F58G4.6	1005	440
F58G4.7	1017	694
F58G6.1.1	1834	416
F58G6.1.2	1961	543
F58G6.2A	918	240
F58G6.2B	663	330
F58G6.3	472	104
F58G6.4	1604	1058
F58G6.5A	1848	1393
F58G6.5B	2180	1722
F58G6.5C	2227	28
F58G6.5D	2123	1665
F58G6.6A	1930	91
F58G6.6B	1848	9
F58G6.7	815	387
F58G6.8	597	115
F58G6.9A	632	103
F58G6.9B.1	644	157
F58G6.9B.2	725	238
F58G6.9C	482	103
F58H10.1	365	186
F58H1.10	218	74
F58H1.12	130	32
F58H1.13	148	11
F58H1.1	3716	449
F58H1.15	141	46
F58H1.17	140	47
F58H12.1	3368	1206
F58H1.22	128	38

F58H1.2	685	286
F58H1.3A	913	125
F58H1.3B	2070	92
F58H1.4	499	77
F58H1.5	1156	210
F58H1.6	945	233
F58H1.7A	859	191
F58H1.7B	853	185
F58H1.8	899	420
F58H7.1	1824	1082
F58H7.2	1821	803
F58H7.3	1695	1262
F58H7.5	819	63
F59A1.10	1172	374
F59A1.11A	1687	370
F59A1.11B	1672	370
F59A1.12	894	432
F59A1.13	1583	1364
F59A1.14	1062	574
F59A1.15	1665	630
F59A1.16	324	174
F59A1.3	1032	424
F59A1.4	1065	238
F59A1.6	337	91
F59A1.7	1060	1
F59A2.1A.1	2946	490
F59A2.1A.2	2965	509
F59A2.1A.3	3040	584
F59A2.1B.1	3018	490
F59A2.1B.2	3037	509
F59A2.1B.3	3112	584
F59A2.2A	1563	72
F59A2.2B	1593	1356
F59A2.3	942	226
F59A2.4A	1366	349
F59A2.4B	643	59
F59A2.5	433	64
F59A2.6	3402	97
F59A3.10	354	1
F59A3.12	1094	672
F59A3.1	3287	1801
F59A3.13	616	95
F59A3.2	2174	963
F59A3.3	991	166

F59A3.4	1292	64
F59A3.6	1055	121
F59A3.7	586	362
F59A3.8	1840	1693
F59A3.9	1527	662
F59A6.10	498	253
F59A6.11	567	46
F59A6.12	455	178
F59A6.1	5037	153
F59A6.2	433	186
F59A6.3	2361	1799
F59A6.4	2391	409
F59A6.5	4028	15
F59A6.6A	620	342
F59A6.6B	639	342
F59A6.6C	847	121
F59A6.6D	805	214
F59A7.11	315	70
F59A7.1	1562	458
F59A7.12	231	39
F59A7.2	468	92
F59A7.3	1011	465
F59A7.4	573	132
F59A7.5A	1291	724
F59A7.5B	976	734
F59A7.7	489	107
F59A7.8	990	187
F59A7.9	1014	23
F59B10.10	141	35
F59B10.1	3586	2287
F59B10.2	1662	85
F59B10.3	921	393
F59B10.4A	1113	496
F59B10.4B	1047	430
F59B10.5	510	106
F59B10.6	318	190
F59B10.7	540	352
F59B1.10	1354	892
F59B1.1	1047	892
F59B1.2	639	341
F59B1.3	969	437
F59B1.4	801	166
F59B1.6	1080	367
F59B1.7	987	36

F59B1.8	1320	1026
F59B1.9	1718	619
F59B2.12	2864	1645
F59B2.13	1382	357
F59B2.14	603	468
F59B2.15	374	285
F59B2.17	200	71
F59B2.2	1699	1163
F59B2.3.1	1388	380
F59B2.3.2	1384	380
F59B2.5A	1557	536
F59B2.5B	1487	466
F59B2.6	1772	70
F59B2.7	873	258
F59B2.8	1308	1
F59B2.9	1331	75
F59B8.1A.1	723	26
F59B8.1A.2	831	56
F59B8.1B	694	93
F59B8.2A.1	1437	938
F59B8.2A.2	1457	958
F59B8.2B	1484	985
F59B8.2C	714	223
F59C12.10	163	76
F59C12.1	2006	1715
F59C12.2A	2052	1524
F59C12.2B	1908	1380
F59C12.3	1969	135
F59C12.4	273	110
F59C6.11	839	261
F59C6.12	537	16
F59C6.14A	595	360
F59C6.14B	420	241
F59C6.15	173	49
F59C6.16	239	76
F59C6.17	222	77
F59C6.18	402	48
F59C6.2	974	331
F59C6.3	644	230
F59C6.4	784	375
F59C6.5	937	101
F59C6.7A	1332	419
F59C6.7B	1102	189
F59C6.8	1774	1052

F59D12.1	1635	899
F59D12.2	498	79
F59D12.3	957	172
F59D12.4	1797	869
F59D12.5	666	250
F59D12.7	135	43
F59D6.1	361	182
F59D6.2	1143	224
F59D6.3	1472	1025
F59D6.4	1569	1255
F59D6.6	1617	1435
F59D6.7	723	333
F59E10.1	1839	768
F59E10.2	1628	132
F59E10.3	697	396
F59E11.10A	850	152
F59E11.10B	1279	251
F59E11.11	1443	958
F59E11.12A.1	684	228
F59E11.12A.2	531	265
F59E11.12B	616	513
F59E11.13	1017	251
F59E11.14	1026	572
F59E11.15	1023	225
F59E11.16	993	598
F59E11.1	987	565
F59E11.2	986	24
F59E11.5	852	126
F59E11.6	758	495
F59E11.7A	852	355
F59E11.7B	782	355
F59E11.8A	903	278
F59E11.8B	969	344
F59E12.10	635	349
F59E12.11	1203	476
F59E12.1	2595	587
F59E12.12	970	12
F59E12.13.1	1349	1055
F59E12.13.2	1357	1063
F59E12.13.3	1436	1142
F59E12.2.1	2342	1640
F59E12.2.2	2352	1651
F59E12.3	578	226
F59E12.6A	1631	153

F59E12.6B	1516	451
F59E12.8	1239	438
F59E12.9	5246	561
F59F3.1	3767	1900
F59F3.2	1393	890
F59F3.4.1	1633	272
F59F3.4.2	1605	272
F59F3.5	4091	103
F59F3.6	660	169
F59F4.1	2095	1282
F59F4.2	487	112
F59F4.3	1764	616
F59F4.4	993	244
F59F4.5	229	19
F59F5.10	149	12
F59F5.1	1471	753
F59F5.2A	1861	1081
F59F5.2B	698	151
F59F5.3	2204	1294
F59F5.5	1167	24
F59F5.6	3886	2344
F59F5.7	2843	2305
F59G1.12	263	53
F59G1.1A	1707	536
F59G1.1B.1	1723	552
F59G1.1B.2	1783	612
F59G1.1C.1	1801	552
F59G1.1C.2	1861	612
F59G1.1D.1	1783	612
F59G1.1D.2	1615	444
F59G1.1D.3	1723	552
F59G1.1D.4	1612	441
F59G1.2	1500	865
F59G1.3	2984	1549
F59G1.4A	1864	44
F59G1.4B	914	21
F59G1.5.1	2721	1760
F59G1.5.2	2742	1781
F59G1.7	601	254
F59G1.8A	640	387
F59G1.8B	831	547
F59H5.1	2502	1942
F59H5.6	878	375
F59H6.11	1013	447

F59H6.1	1342	765
F59H6.14	557	66
F59H6.2	2115	1867
F59H6.6	651	226
F59H6.9	995	452
H01A20.1	1739	1233
H01A20.4	289	116
H01G02.11	352	60
H01G02.13	147	61
H01G02.1A	611	4
H01G02.1B.1	567	40
H01G02.1B.2	632	40
H01G02.2	1007	164
H01G02.3A	1729	587
H01G02.3B	1638	494
H01G02.3C	662	234
H01G02.4.1	983	569
H01G02.4.2	926	512
H01G02.4.3	565	273
H01G02.4.4	773	481
H01G02.9	213	41
H01M10.1	1048	164
H01M10.2	1001	406
H01M10.3	472	90
H02F09.2	528	334
H02F09.3	3828	615
H02I12.1	4194	23
H02I12.3	1194	387
H02I12.4	996	211
H02I12.5	1244	629
H02I12.6	372	156
H02I12.8	1598	51
H02K04.1	716	226
H02K04.2	660	158
H03A11.10	193	56
H03A11.1	2161	804
H03A11.2	4032	3410
H03A11.5	205	37
H03E18.1	3722	677
H03E18.2A	716	151
H03E18.2B	917	352
H03E18.3	145	72
H03E18.5	285	70
H03G16.2	1191	188

H03G16.4	1177	38
H03G16.5	684	122
H04D03.1	1009	498
H04D03.2A	2056	225
H04D03.3	1274	371
H04D03.4	2296	1128
H04D03.5	134	34
H04J21.1	3099	340
H04J21.2	975	674
H04J21.3A	2825	1384
H04J21.3B	3585	1384
H04J21.3C	1195	365
H04M03.11	753	267
H04M03.1	1978	641
H04M03.12A	896	309
H04M03.12B	1699	307
H04M03.2	312	161
H04M03.3	1141	276
H04M03.4	1663	1065
H04M03.6	972	359
H04M03.8	954	225
H05B21.4	1074	40
H05C05.1A	2612	2263
H05C05.1B	890	159
H05C05.1C	2697	2348
H05C05.2A	1763	496
H05C05.2B	1178	414
H05C05.4	571	196
H05G16.1	4175	434
H05G16.3	216	44
H05L03.3.1	599	115
H05L03.3.2	625	141
H05L14.1	2505	1763
H05L14.2	7022	6320
H06A10.1	1341	135
H06A10.2	946	154
H06H21.10A	4149	1735
H06H21.10B	4049	1735
H06H21.10C	3795	1735
H06H21.10D	3900	1840
H06H21.10E	4154	1840
H06H21.10F	4254	1840
H06H21.1	1086	641
H06H21.2	1146	627

H06H21.36	262	100
H06H21.3	954	348
H06H21.6.1	1641	1168
H06H21.6.2	1825	1352
H06H21.6.3	1646	1173
H06H21.6.4	1832	1359
H06H21.8A	1311	594
H06H21.8B	1345	594
H06H21.9	1225	139
H06I04.1A	1548	1147
H06I04.1B	1741	1147
H06I04.1C.1	1238	1076
H06I04.1C.2	1082	920
H06I04.2	1062	546
H06I04.3A	2754	1669
H06I04.3B	2180	1669
H06I04.3C	2390	1669
H06I04.4A.1	559	294
H06I04.4A.2	572	305
H06I04.4B	548	293
H06I04.5	3471	1843
H06I04.6A	702	410
H06I04.6B	970	674
H06I04.7	297	53
H06O01.1.1.1	1699	555
H06O01.1.1.2	1706	562
H06O01.1.1.3	1731	587
H06O01.2	4753	4329
H06O01.3A	1538	1091
H06O01.3B	1274	827
H06O01.3C	829	382
H08J11.12	223	71
H08J11.2	983	28
H08J11.4	191	60
H08J11.6	173	4
H08J19.1	297	16
H08M01.1	1110	905
H08M01.2A	3978	1044
H08M01.2B	4110	1044
H08M01.2C	1687	276
H08M01.2D	744	346
H09F14.1A	1125	813
H09F14.1B	1206	914
H09F14.1C	1179	914

H09F14.1D	960	813
H09F14.1E	987	695
H09G03.1	912	291
H09G03.2A	2608	152
H09G03.2B	2720	178
H09G03.2C	2377	152
H10D18.1	519	32
H10D18.2	701	119
H10D18.3	1176	882
H10D18.4	715	523
H10D18.5	1289	681
H10D18.6	1152	997
H10E21.1A	622	22
H10E21.1B	792	88
H10E21.2.1	1741	899
H10E21.2.2	1661	819
H10E21.3A	1532	461
H10E21.3B	1538	467
H10E21.4	880	362
H10E21.5	1667	562
H11E01.1	879	145
H11E01.2	1455	300
H11E01.3	5169	655
H11L12.1	759	493
H12C20.2A	2638	1716
H12C20.2B	359	189
H12C20.3A.1	1332	359
H12C20.3A.2	1336	359
H12C20.6A	1226	376
H12C20.6B	1171	331
H12D21.10A	1696	1380
H12D21.10B	700	418
H12D21.11	1080	366
H12D21.2A	591	149
H12D21.2B	357	149
H12D21.3	252	44
H12D21.4	975	354
H12D21.5	483	144
H12D21.6	548	333
H12D21.7A	1176	489
H12D21.7B	1176	489
H12D21.7C	1183	496
H12D21.9	966	752
H12I13.1	1779	1053

H12I13.2	981	371
H12I13.5	489	103
H12I13.6	259	70
H12I19.2	975	212
H12I19.4	2301	2059
H12I19.5A	2056	386
H12I19.5B	1962	386
H12I19.8	288	37
H13N06.10	139	49
H13N06.11	202	43
H13N06.2	1510	793
H13N06.3A	1932	579
H13N06.3B	1884	531
H13N06.4A	1827	846
H13N06.4B	1892	1373
H13N06.5	1574	700
H13N06.6A	2019	175
H13N06.6B	2072	228
H13N06.7	654	116
H13N06.8	136	31
H14A12.2A	1977	728
H14A12.2B.1	1649	400
H14A12.2B.2	1490	86
H14A12.2B.3	1577	328
H14A12.2B.4	1667	1222
H14A12.2B.5	1619	370
H14A12.3	1180	749
H14A12.4	844	205
H14A12.5	399	194
H14E04.1	1045	34
H14E04.2A	2067	833
H14E04.2B	2071	111
H14E04.2C	2088	854
H14E04.2D	1828	594
H14E04.3	567	375
H14E04.4	483	72
H14E04.5	1083	294
H14N18.1A	2306	205
H14N18.1B.1	2082	883
H14N18.1B.2	2072	873
H14N18.1C	2082	883
H14N18.2	906	250
H14N18.3	522	119
H14N18.4A	2278	1014

H14N18.4B	2404	1140
H15N14.1C	3023	1381
H15N14.1D	2851	1152
H15N14.1E	2794	1152
H15N14.1F	3119	1477
H15N14.1G	370	83
H15N14.2A	2800	2102
H15N14.2B.1	2662	1964
H15N14.2B.2	2727	2029
H16O14.1A	3727	171
H16O14.1B	3781	225
H16O14.1C	3850	294
H16O14.1D	3931	375
H16O14.1E	3559	3
H17B01.1A	1624	185
H17B01.1B	1676	237
H17B01.3	858	453
H17B01.4A	3041	1064
H17B01.4B	1192	589
H17B01.5	287	93
H18N23.2A	2083	88
H18N23.2B	1796	25
H18N23.2C	2109	111
H19J13.1	2048	806
H19J13.2	462	290
H19M22.2A	13244	12560
H19M22.2B	13754	12551
H19M22.2C	1630	949
H19M22.2D	2889	128
H19M22.3A	2332	297
H19M22.3B	765	229
H19M22.3C	1952	933
H19M22.4	715	56
H19M22.7	126	29
H19N07.1A.1	2005	90
H19N07.1A.2	2017	102
H19N07.2A	4199	3316
H19N07.2B	4190	3307
H19N07.2C	4205	3423
H19N07.2D	4196	3414
H19N07.2E	4193	3411
H19N07.2F	4202	3420
H19N07.2G	4187	3304
H19N07.2H	4196	3313

H19N07.2I	4208	3325
H19N07.2J	4199	3316
H19N07.2K	4214	3432
H19N07.2L	4205	3423
H19N07.2M	4202	3420
H19N07.2N	4211	3429
H19N07.2O	4196	3313
H19N07.2P	4205	3322
H19N07.3A.1	737	154
H19N07.3A.2	695	154
H19N07.3B	645	104
H19N07.4A.1	1837	1307
H19N07.4A.2	1923	1393
H19N07.4B.1	1798	1268
H19N07.4B.2	1818	1288
H19N07.4B.3	1873	1343
H20E11.1A	1654	837
H20E11.1B	1995	1648
H20E11.2	1247	513
H20E11.3A	1052	810
H20E11.3B	1087	844
H20J04.1	2613	2367
H20J04.2	4715	2263
H20J04.3	939	540
H20J04.4A	1476	957
H20J04.4B	1912	1356
H20J04.5	569	205
H20J04.6	778	66
H20J04.8	1054	203
H20J18.1A.1	3600	1924
H20J18.1A.2	3504	1828
H20J18.1B.1	3486	1035
H20J18.1B.2	3390	939
H21P03.1	781	290
H21P03.2.1	1457	646
H21P03.2.2	1457	646
H21P03.3A	1937	978
H21P03.3B	1970	1011
H21P03.3C	1801	842
H21P03.3D	1808	849
H21P03.6	403	118
H21P03.7	319	179
H22D07.1	1515	56
H22K11.1	1468	143

H22K11.12	143	33
H22K11.2	1969	396
H22K11.3	696	149
H22K11.4A	1449	739
H22K11.4B	1094	384
H22K11.7	224	78
H22K11.9	137	23
H23L24.1	815	124
H23L24.2	1870	907
H23L24.3A	1655	1426
H23L24.3B	2172	1943
H23L24.4	1073	962
H23L24.5	1680	334
H23N18.1	1694	1353
H23N18.2	1640	1365
H23N18.3	1689	1376
H23N18.5	351	179
H23N18.6	576	259
H24D24.1	1050	250
H24D24.2	990	856
H24G06.1A	5368	2915
H24G06.1B	5131	2915
H24G06.1C	2283	189
H24G06.1D.1	2615	399
H24G06.1D.2	2840	624
H24G06.1E	2004	43
H24K24.2	1473	1182
H24K24.3A.1	1355	103
H24K24.3A.2	1359	103
H24K24.3B.1	1349	87
H24K24.3B.2	1345	87
H24K24.4.1	2025	853
H24K24.4.2	2038	866
H24K24.5	1657	829
H24O09.1	943	579
H24O09.2	1088	35
H25K10.1	1310	99
H25K10.3	1044	361
H25K10.5	1551	839
H25K10.6	1479	1204
H25K10.7A	1265	700
H25K10.7B	1120	638
H25P06.1	1981	1480
H25P06.2A	1356	35

H25P06.2B	1602	35
H25P06.5	423	108
H25P19.1	1205	591
H26D21.1	922	734
H26D21.2	2636	839
H27A22.1A	1230	548
H27A22.1B	1355	673
H27C11.1A	2186	434
H27C11.1B.1	1928	176
H27C11.1B.2	1871	119
H27C11.1B.3	2211	459
H27D07.5	1119	1009
H27M09.1	1974	398
H27M09.2	825	9
H27M09.3	2045	374
H27M09.4	1041	690
H27M09.5	1116	2
H28G03.1A	2048	878
H28G03.1B	1917	785
H28G03.1C	1451	875
H28G03.2A	1933	962
H28G03.2B	1561	590
H28G03.2C.1	1369	398
H28G03.2C.2	1341	370
H28G03.2C.3	1385	414
H28G03.3	588	176
H28G03.6	5628	151
H28O16.1A	2022	631
H28O16.1B	1867	370
H28O16.1C	1879	488
H28O16.1D.1	1864	473
H28O16.1D.2	1963	572
H28O16.1D.3	1958	567
H28O16.1D.4	1976	585
H28O16.1D.5	1952	561
H28O16.1D.6	1952	561
H28O16.2	1570	1139
H29C22.1	531	141
H30A04.12	129	12
H30A04.1A	3234	2192
H30A04.1B	3240	2192
H30A04.1C	2439	2096
H30A04.4	150	12
H30A04.5	284	22

H30A04.7	188	52
H30A04.9	129	57
H31B20.2	375	195
H31G24.1	349	106
H31G24.4.1	1333	765
H31G24.4.2	1389	821
H32C10.101	116	3
H32C10.1A.1	1255	841
H32C10.1A.2	1285	871
H32C10.1B	1270	856
H32C10.2A	900	560
H32C10.2B.1	756	416
H32C10.2B.2	868	528
H32C10.3	1787	1056
H32K16.1	1446	1147
H32K16.2	414	59
H32K21.1	471	147
H34C03.1	1608	1336
H34C03.2A	3504	66
H34C03.2B	2975	66
H34I24.1	820	515
H34I24.2	1628	451
H34P18.1	1086	498
H35B03.1	1540	59
H35B03.2A	1909	1448
H35B03.2B	1218	128
H35B03.2C	1546	1085
H35B03.2D	1514	1053
H35N03.1	1718	67
H35N09.1	444	155
H35N09.2	458	306
H36L18.1	1368	11
H36L18.2	570	282
H36N01.5	143	43
H37A05.1	3039	2296
H37A05.2	1260	1096
H37A05.4	846	127
H37N21.1	1950	1162
H38K22.1	4931	2322
H38K22.2A	1520	1
H38K22.2B	1355	303
H38K22.3	1277	1
H38K22.5A.1	2414	204
H38K22.5A.2	2689	479

H38K22.5B.1	2411	204
H38K22.5B.2	2686	479
H38K22.5C.1	2142	204
H38K22.5C.2	2010	479
H38K22.5D	937	63
H38K22.6	342	27
H38K22.7	321	178
H39E23.1A	3579	2419
H39E23.1B	4070	2147
H39E23.1C	3336	2176
H39E23.1D	3651	3146
H39E23.1E	2962	2655
H39E23.1F	3543	2383
H39E23.1G	3126	1966
H39E23.1H	2231	1071
H39E23.1I	690	185
H39E23.1J	3603	2443
H39E23.1K	1968	808
H39E23.1L	4016	2161
H39E23.2	691	159
H39E23.3	2341	41
H40L08.1	1820	273
H40L08.2A	835	339
H40L08.2B	829	339
H40L08.2C	496	202
H40L08.3	3111	1314
H41C03.1	1319	119
H41C03.2	1071	182
H41C03.3.1	1612	80
H41C03.3.2	1687	155
H41C03.3.3	1717	185
H42K12.1A	2401	43
H42K12.1B	2413	43
H42K12.3.1	1693	831
H42K12.3.2	1690	828
H43E16.1	3733	981
H43I07.1	870	644
H43I07.2	1246	23
H43I07.3	1318	224
JC8.10A	3658	2846
JC8.10B	3676	2864
JC8.10C.1	1533	503
JC8.10C.2	1611	503
JC8.10D	1595	503

JC8.12A	1106	708
JC8.12B	973	575
JC8.13	1024	326
JC8.14	475	228
JC8.16	973	283
JC8.17	473	232
JC8.2	1602	1178
JC8.3A	680	81
JC8.3B	617	494
JC8.3C.1	763	48
JC8.3C.2	828	22
JC8.3C.3	327	116
JC8.3C.4	585	193
JC8.3C.5	640	45
JC8.3C.6	574	182
JC8.3C.7	635	40
JC8.4	531	74
JC8.5A	939	359
JC8.5B	801	221
JC8.6A	1534	276
JC8.6B	1506	1074
JC8.7A	1017	855
JC8.7B	738	576
K01A11.1	597	396
K01A11.2	779	517
K01A11.3	921	272
K01A11.4A	2676	1393
K01A11.4B	2230	947
K01A12.2	570	170
K01A12.3	1541	1335
K01A2.10	883	87
K01A2.11A	1826	1406
K01A2.11B	1561	410
K01A2.11C	1391	410
K01A2.11D	2109	1406
K01A2.12	453	303
K01A2.1	987	443
K01A2.2A	525	38
K01A2.3	695	450
K01A2.4	2561	577
K01A2.5	856	242
K01A2.6	513	103
K01A2.7	1185	967
K01A2.9	453	303

K01A6.15	147	69
K01A6.17	211	25
K01A6.19	142	55
K01A6.21	149	36
K01A6.2A	3449	121
K01A6.2B	2852	1321
K01A6.2C	3015	2827
K01A6.2D	2745	1214
K01A6.2E	2774	235
K01A6.4	967	189
K01A6.6A	1529	1129
K01A6.6B	1434	1129
K01A6.7	394	145
K01A6.8	339	16
K01B6.1	2850	160
K01B6.2	1086	830
K01B6.3	1503	918
K01B6.4	431	247
K01B6.9	142	68
K01C8.10.1	1853	1558
K01C8.10.2	1854	1559
K01C8.1.1	1613	831
K01C8.1.2	1854	1072
K01C8.2	1692	839
K01C8.3A	2196	560
K01C8.3B	2200	560
K01C8.5	2321	1104
K01C8.6	755	129
K01C8.7A	1127	570
K01C8.7B	505	83
K01C8.8	1659	182
K01C8.9	2118	1047
K01D12.10	700	595
K01D12.1	1090	22
K01D12.11	933	421
K01D12.12	906	324
K01D12.13A	984	109
K01D12.13B	970	92
K01D12.14	918	395
K01D12.17	184	57
K01D12.19	136	58
K01D12.4A	1560	1027
K01D12.4B	1648	1115
K01D12.4C	1599	1066

K01D12.5	884	640
K01D12.6	1790	179
K01D12.8	508	67
K01D12.9	535	45
K01F9.2	965	540
K01G12.3	1649	155
K01G5.10	789	345
K01G5.1	1233	121
K01G5.2A	698	171
K01G5.2B	980	171
K01G5.2C	929	171
K01G5.4	1199	91
K01G5.5	1507	78
K01G5.6	2659	171
K01G5.7.1	1473	938
K01G5.7.2	1502	967
K01G5.8A	402	177
K01G5.8B	411	186
K01G5.9.1	1301	812
K01G5.9.2	1368	879
K01G5.9.3	1506	1017
K01H12.1A	557	267
K01H12.2	1012	556
K01H12.3	1215	542
K01H12.4	1076	527
K01H12.6	423	28
K02A11.1A.1	2251	1326
K02A11.1A.2	2189	1264
K02A11.1A.3	2179	1254
K02A11.1B.1	2263	1326
K02A11.1B.2	2201	1264
K02A11.1B.3	2191	1254
K02A11.2	640	456
K02A11.3	1033	64
K02A11.4	445	189
K02A11.5	127	51
K02A11.7	149	48
K02A11.8	150	20
K02A2.2	1263	364
K02A2.3	3293	1632
K02A2.5	516	272
K02A2.7	1011	404
K02A4.11	271	175
K02A4.1	1842	84

K02A4.13	267	44
K02A4.2.1	368	186
K02A4.2.2	848	304
K02A4.5	203	38
K02A4.7	215	56
K02A6.3A	1757	1304
K02A6.3B.1	735	283
K02A6.3B.2	708	256
K02A6.4	324	56
K02B12.1	1601	290
K02B12.12	149	63
K02B12.13	1530	1105
K02B12.3.1	1426	669
K02B12.3.2	1523	766
K02B12.4A	1178	510
K02B12.4B	1333	665
K02B12.5	3707	2030
K02B12.6	517	8
K02B12.7	1527	973
K02B12.8A	1278	429
K02B12.8B	1284	429
K02B12.9	451	21
K02B2.1	1554	485
K02B2.3	1244	312
K02B2.37	209	74
K02B2.4A	1910	942
K02B2.4B	1144	176
K02B2.5	457	150
K02B2.6	294	190
K02B7.3A	498	58
K02B7.3B	505	32
K02B9.1	2365	1737
K02B9.2	2821	430
K02B9.3A	864	451
K02B9.3B	891	365
K02B9.4A	1148	301
K02B9.4B	1338	491
K02B9.4C	1011	164
K02B9.4D	1013	166
K02B9.7	147	28
K02B9.8	272	69
K02C4.10	129	26
K02C4.2	741	514
K02C4.3	4266	2802

K02C4.4	2533	1684
K02C4.5	1332	1047
K02C4.8	135	46
K02D10.1A	1834	743
K02D10.1B.1	1135	12
K02D10.1B.2	1161	38
K02D10.1C	1057	734
K02D10.2	375	201
K02D10.3	318	89
K02D10.4.1	1497	540
K02D10.4.2	1467	510
K02D10.5	1190	46
K02D10.8	308	137
K02D3.1	870	53
K02D3.2	711	184
K02D7.1A.1	1154	671
K02D7.1A.2	1137	654
K02D7.2	622	205
K02D7.3A	1067	164
K02D7.3B	1029	126
K02D7.4	2851	957
K02D7.5	1236	278
K02D7.6	704	491
K02E10.10	137	47
K02E10.1	1157	569
K02E10.2A	2519	583
K02E10.2B	3153	583
K02E10.4A	1541	1166
K02E10.4B	1544	1169
K02E10.5	596	62
K02E10.6	789	524
K02E10.7	2462	1880
K02E10.8A	2234	1702
K02E10.8B	2312	1702
K02E11.10	1228	37
K02E11.11	393	233
K02E11.1	2282	1181
K02E11.13	137	36
K02E11.2	1020	856
K02E11.3	513	20
K02E11.4	402	83
K02E11.5	446	61
K02E11.6	707	327
K02E11.7	481	98

K02E2.1	1146	681
K02E2.11	357	98
K02E2.2	3049	2252
K02E2.3	987	743
K02E2.4	375	100
K02E2.6.1	696	478
K02E2.6.2	621	478
K02E2.7A	1122	82
K02E2.7B	1148	108
K02E2.8A	618	78
K02E2.8B	573	112
K02E7.10	900	394
K02E7.11	465	225
K02E7.12.1	360	1
K02E7.1A	535	343
K02E7.1B	435	243
K02E7.4	702	158
K02E7.6.1	1755	1171
K02E7.6.2	1791	247
K02F2.1A	3039	1652
K02F2.1B	3027	1640
K02F2.2.1	1538	956
K02F2.2.2	1617	1035
K02F2.3	3960	737
K02F2.4	1172	33
K02F2.5	995	337
K02F2.6	2180	976
K02F3.10	726	485
K02F3.11	1010	63
K02F3.1	1665	421
K02F3.12A	1939	1206
K02F3.12B	1875	1142
K02F3.14	302	48
K02F3.2A	2199	1794
K02F3.2B	2223	1818
K02F3.3	778	118
K02F3.4.1	1375	795
K02F3.4.2	1604	1024
K02F3.5	979	724
K02F3.6	1291	1081
K02F3.8	2224	1207
K02F3.9	591	88
K02F6.3	3819	2274
K02F6.4	3582	2891

K02F6.7	1668	1035
K02F6.9	2157	1733
K02G10.1	1203	552
K02G10.15	754	12
K02G10.3.1	1498	698
K02G10.3.2	1594	794
K02G10.4A	614	47
K02G10.4B	597	85
K02G10.4C	670	22
K02G10.5	2271	307
K02G10.6	1453	829
K02G10.7A	1022	42
K02G10.7B	1134	410
K02G10.8A	738	123
K02G10.8B	1090	123
K02H11.2	1041	874
K02H11.3	1002	299
K02H11.4	1626	330
K02H11.6	429	96
K02H11.7	999	870
K02H11.9	729	318
K02H8.1A	978	219
K02H8.1B	924	219
K02H8.1C	699	219
K02H8.2	224	18
K02H8.3	144	24
K02H8.4	270	47
K02H8.6	177	73
K03A11.1	2420	16
K03A11.2	320	198
K03A11.3	711	494
K03A11.4	1995	1064
K03A11.5	909	296
K03A11.6	840	253
K03A11.8	290	138
K03A11.9	203	58
K03A1.2A	1993	1518
K03A1.2B	1923	1518
K03A1.4A	575	240
K03A1.4B	535	250
K03A1.5	2507	887
K03A1.8	146	68
K03A1.9	144	43
K03B4.1	1227	307

K03B4.2	827	190
K03B4.3A	749	47
K03B4.3B.1	760	49
K03B4.3B.2	758	47
K03B4.4A	414	22
K03B4.4B	445	84
K03B4.5	942	157
K03B4.6	491	55
K03B4.7A	525	162
K03B4.7B	823	59
K03B4.9	1003	663
K03B8.11	222	75
K03B8.1	1356	1090
K03B8.14	339	171
K03B8.15	142	5
K03B8.16	144	21
K03B8.17	129	52
K03B8.20	157	40
K03B8.2	1347	438
K03B8.22	150	54
K03B8.3	1233	862
K03B8.5	1192	275
K03B8.6.1	1412	702
K03B8.6.2	1473	763
K03B8.7	906	568
K03B8.8	1136	426
K03B8.9.1	1899	1519
K03B8.9.2	1895	1519
K03C7.14	338	6
K03C7.2A	1476	448
K03C7.2B	1869	340
K03C7.2C.1	1146	118
K03C7.2C.2	1007	222
K03C7.3	576	437
K03C7.4	137	17
K03D10.1	2293	322
K03D10.3	1982	683
K03D3.10	588	175
K03D3.11	786	85
K03D3.12	918	494
K03D3.14	846	402
K03D3.1	960	692
K03D3.4	984	660
K03D3.5	338	47

K03D7.11	1104	908
K03D7.2	1104	908
K03D7.6	1059	932
K03D7.7	1083	276
K03D7.8	1227	852
K03D7.9	636	363
K03E5.1	1236	1074
K03E5.2A	891	136
K03E5.2B	707	99
K03E5.2C.1	416	9
K03E5.2C.2	481	97
K03E5.2D	529	71
K03E5.3	1107	601
K03E5.6	133	32
K03E6.1A	933	262
K03E6.1B	951	787
K03E6.3	600	287
K03E6.4	690	278
K03E6.5A	1142	88
K03E6.5B	1150	96
K03E6.6	532	135
K03E6.7	1666	888
K03F8.2	1800	1529
K03H1.10.1	1170	91
K03H1.10.2	1207	91
K03H1.1	1219	331
K03H1.12	494	253
K03H1.13A	1395	1066
K03H1.13B	1332	1066
K03H1.16	150	26
K03H1.18	150	58
K03H1.19	150	65
K03H1.2	3531	2314
K03H1.3.1	486	71
K03H1.3.2	539	52
K03H1.4.1	499	63
K03H1.4.2	536	100
K03H1.5	4342	2849
K03H1.6	592	102
K03H1.7	588	304
K03H4.2	821	525
K03H4.3	223	42
K03H4.5	212	61
K03H4.6	143	45

K03H4.7	141	66
K03H6.1	1362	678
K03H6.2A	1122	240
K03H6.2B	514	81
K03H6.2C	300	58
K03H6.4	1050	241
K03H6.5A	1305	850
K03H6.5B	1418	850
K03H6.7	515	56
K03H9.12	132	51
K03H9.13	143	66
K03H9.14	163	17
K03H9.15	211	18
K03H9.1	528	29
K03H9.2	948	378
K03H9.3	1374	446
K03H9.5	155	17
K04A8.10	1218	748
K04A8.1.1	1292	871
K04A8.11	206	39
K04A8.1.2	1436	1015
K04A8.12	144	64
K04A8.17	150	10
K04A8.18	411	143
K04A8.19	246	139
K04A8.2	1131	578
K04A8.3	412	64
K04A8.4	1056	462
K04A8.6	3314	2762
K04A8.8	758	286
K04A8.9	471	324
K04B12.1	5448	2239
K04B12.2A.1	1739	48
K04B12.2A.2	1840	48
K04B12.3A	2704	2433
K04B12.3B	2698	2427
K04B12.3C	1145	874
K04C1.1A	924	533
K04C1.1B	711	320
K04C1.1C	975	584
K04C1.2A	1978	1291
K04C1.2B	2005	1318
K04C1.3	1239	603
K04C1.4	432	269

K04C1.5	1169	382
K04C1.6	999	850
K04C2.2	3132	1827
K04C2.3A.1	538	122
K04C2.3A.2	579	163
K04C2.4.1	2191	1958
K04C2.4.2	2189	1958
K04C2.4.3	2210	1977
K04C2.5	463	120
K04C2.7	745	307
K04C2.8	558	206
K04D7.1.1	1091	378
K04D7.11	138	65
K04D7.1.2	1036	378
K04D7.1.3	1094	381
K04D7.14	216	66
K04D7.15	212	31
K04D7.2A	1397	830
K04D7.2B	1386	819
K04D7.3A	1662	1252
K04D7.3B.1	1509	1099
K04D7.3B.2	1519	1109
K04D7.4A	3594	2062
K04D7.4B	3441	1909
K04D7.5A	4103	312
K04D7.5B	4089	312
K04D7.6	1181	137
K04D7.9	216	75
K04E7.1	537	88
K04E7.2.1	2931	2408
K04E7.2.2	2928	2408
K04E7.3	1980	919
K04F10.1	1102	760
K04F10.2	1707	1438
K04F10.3A	1164	68
K04F10.3B	1140	50
K04F10.4A.1	2328	1723
K04F10.4A.2	2327	1722
K04F10.4B.1	2376	1723
K04F10.4B.2	2375	1722
K04F10.4C.1	2642	1723
K04F10.4C.2	2641	1722
K04F10.4D.1	3207	1723
K04F10.4D.2	3206	1722

K04F10.4E.1	2548	1723
K04F10.4E.2	2547	1722
K04F10.4F.1	2738	1723
K04F10.4F.2	2737	1722
K04F10.6A	1436	667
K04F10.6B	1500	667
K04F10.7	1489	284
K04F1.10	1197	820
K04F1.11	764	400
K04F1.12A	1265	177
K04F1.12B	1259	177
K04F1.13	1647	25
K04F1.14A	2011	1802
K04F1.14B	1521	1356
K04F1.15	1641	306
K04F1.1	735	153
K04F1.2	1182	245
K04F1.3	1098	1019
K04F1.4	1053	237
K04F1.5	1005	790
K04F1.7	1245	874
K04F1.8	462	120
K04F1.9	522	189
K04G11.1	657	501
K04G11.2	1759	235
K04G11.3	1194	970
K04G11.4	1293	367
K04G11.5	1610	25
K04G2.11.1	471	346
K04G2.11.2	571	416
K04G2.1.1	967	198
K04G2.1.2	1132	363
K04G2.12	318	43
K04G2.1.3	1097	328
K04G2.13	180	55
K04G2.15	180	16
K04G2.2	1746	21
K04G2.3	2271	1795
K04G2.4	877	284
K04G2.5	984	472
K04G2.6	2246	1856
K04G2.7A	1019	127
K04G2.7B	841	143
K04G2.8A	3894	125

K04G2.8B	3900	125
K04G2.9	758	490
K04G7.10.1	1114	747
K04G7.10.2	1248	747
K04G7.1.1	1840	405
K04G7.11	865	421
K04G7.1.2	1858	423
K04G7.3A	4109	116
K04G7.3B	3575	2725
K04G7.4A.1	1634	848
K04G7.4A.2	1407	848
K04G7.4B	1084	840
K04H4.11	131	32
K04H4.13	331	28
K04H4.14	275	136
K04H4.1A	5615	250
K04H4.1B	4844	250
K04H4.2A.1	2402	1015
K04H4.2A.2	2401	1015
K04H4.2A.3	2420	1033
K04H4.2B.1	2882	2376
K04H4.2B.2	2885	2376
K04H4.2B.3	2900	2394
K04H4.2C.1	4907	4401
K04H4.2C.2	4910	4401
K04H4.2C.3	4925	4419
K04H4.5	879	649
K04H4.6A.1	1283	122
K04H4.6A.2	1313	152
K04H4.6B.1	1239	122
K04H4.6B.2	1269	152
K04H4.7	621	322
K04H8.1	837	259
K04H8.2	1014	581
K04H8.3	704	526
K05B2.2A	1301	65
K05B2.2B.1	815	271
K05B2.2B.2	1153	171
K05B2.3	2043	1375
K05B2.4	1340	255
K05B2.5A.1	2809	56
K05B2.5A.2	2837	84
K05B2.5B	3020	132
K05B2.5C	2383	132

K05B2.6	430	63
K05B2.7	161	18
K05B2.8	189	30
K05C4.11	1477	482
K05C4.1	1234	365
K05C4.2	720	265
K05C4.3	1563	514
K05C4.4	1299	926
K05C4.5	2182	1870
K05C4.6A.1	2203	1815
K05C4.6A.2	2653	2265
K05C4.6B	2259	1871
K05C4.7.1	1046	46
K05C4.7.2	1080	80
K05C4.8	423	158
K05C4.9	2175	1169
K05D4.2	1017	899
K05D4.4	1600	858
K05D4.6A	1008	472
K05D4.6B	648	112
K05D4.9	1221	389
K05F1.10	436	23
K05F1.1	1753	1265
K05F1.3	1345	1034
K05F1.5	1546	273
K05F1.6A.1	3262	1193
K05F1.6A.2	2926	857
K05F1.6B	2323	254
K05F1.9	721	314
K05F6.10	1362	1053
K05F6.1	1743	702
K05F6.2	977	1
K05F6.4	1253	114
K05F6.6	1476	625
K05F6.9	1006	1
K05G3.1	612	223
K05G3.2	983	747
K05G3.3	1081	538
K05G3.6	207	69
K06A1.1	1098	79
K06A1.2	1440	450
K06A1.3	1791	1229
K06A1.4.1	1925	608
K06A1.4.2	1975	608

K06A1.5	1841	940
K06A1.6	3125	594
K06A4.10	231	77
K06A4.1	1122	68
K06A4.2A	1057	176
K06A4.2C	971	39
K06A4.3	1587	174
K06A4.4	860	527
K06A4.5	977	631
K06A4.7	269	15
K06A5.1.1	2439	2042
K06A5.1.2	2198	9
K06A5.2	1084	640
K06A5.3	469	229
K06A5.4	2995	1357
K06A5.6.1	1504	898
K06A5.6.2	1364	758
K06A5.7.1	2262	775
K06A5.7.2	2291	804
K06A5.8A.1	2875	1528
K06A5.8A.2	2911	1564
K06A5.8B.1	3227	1528
K06A5.8B.2	3263	1564
K06A5.8D	2218	796
K06A9.1A	3526	2959
K06A9.1B	7126	6559
K06A9.1C	2901	2334
K06A9.2	1863	197
K06A9.3	431	249
K06B4.10	1218	104
K06B4.11	1098	78
K06B4.1	1116	437
K06B4.12	2032	1214
K06B4.15	666	315
K06B4.2	1046	680
K06B4.3	387	219
K06B4.4	525	172
K06B4.5	1023	304
K06B4.6.1	1116	803
K06B4.6.2	1164	851
K06B4.8	1137	764
K06B4.9	879	721
K06C4.10	451	152
K06C4.17	1415	202

K06C4.18	150	62
K06C4.6A	1706	856
K06C4.6B	1664	856
K06C4.6C	1370	856
K06C4.7	558	182
K06C4.8	1117	111
K06C4.9	1538	862
K06G5.1A.1	1587	372
K06G5.1A.2	1586	372
K06G5.1A.3	1621	406
K06G5.1A.4	1631	372
K06G5.1B.1	1533	372
K06G5.1B.2	1532	372
K06G5.1B.3	1567	406
K06G5.2	1791	790
K06G5.3	1035	902
K06H6.1	1074	582
K06H6.2	937	405
K06H6.3	939	6
K06H6.4	1509	920
K06H6.5	1020	126
K06H6.6	1008	36
K06H7.1	951	514
K06H7.2	1360	13
K06H7.3.1	1989	1713
K06H7.3.2	2042	1766
K06H7.4	1617	111
K06H7.6	2323	1955
K06H7.7	1295	202
K06H7.8	1105	722
K06H7.9	837	183
K07A1.10	760	97
K07A1.11	1343	976
K07A1.12	1459	667
K07A1.13	687	429
K07A1.15	644	311
K07A1.1	697	462
K07A1.16A	830	399
K07A1.16B	767	336
K07A1.17	660	383
K07A1.18	132	11
K07A1.20	375	1
K07A1.2.1	1552	803
K07A12.1	2038	1437

K07A1.2.2	1548	799
K07A12.2	3395	524
K07A1.2.3	1652	903
K07A12.3	477	153
K07A12.4A	2007	1143
K07A12.4B	1953	1089
K07A12.5	1269	1028
K07A12.6	562	5
K07A12.7	1081	475
K07A12.8A	348	203
K07A12.8B	240	95
K07A12.8C	198	53
K07A1.3	754	561
K07A1.4	964	679
K07A1.5	964	804
K07A1.6	424	194
K07A1.7	1041	558
K07A1.8.1	1796	442
K07A1.8.2	1860	506
K07A1.9A	1583	142
K07A1.9B	1499	26
K07A1.9C	570	83
K07A3.1.1	1216	115
K07A3.1.2	1296	115
K07A3.2A	2899	33
K07A3.2B	1218	623
K07A3.3A	1627	371
K07A3.3B	1589	371
K07A3.4	323	3
K07A3.5	323	119
K07A9.2	1477	857
K07A9.3	773	428
K07B1.1.1	1150	901
K07B1.1.2	1181	932
K07B1.1.3	1039	790
K07B1.2	1371	997
K07B1.3	1268	604
K07B1.4A	1294	11
K07B1.5A	1559	156
K07B1.5B	1598	162
K07B1.6D	914	105
K07B1.7A	1134	739
K07B1.7B	1605	1220
K07B1.8	517	328

K07C10.1	2556	123
K07C10.3	256	10
K07C10.7	150	72
K07C11.10	468	53
K07C11.11	169	3
K07C11.12	195	72
K07C11.14	198	41
K07C11.1	774	358
K07C11.2.1	1343	501
K07C11.2.2	1421	579
K07C11.3.1	552	153
K07C11.3.2	672	273
K07C11.4	2012	352
K07C11.5	569	199
K07C11.7A	1558	643
K07C11.7B.1	1383	468
K07C11.7B.2	1343	428
K07C11.8.1	596	152
K07C11.8.2	664	218
K07C11.9	2237	1620
K07C5.1	1703	119
K07C5.15	247	35
K07C5.16	144	46
K07C5.2	1003	768
K07C5.3	1616	495
K07C5.4	1619	458
K07C5.5A	1400	975
K07C5.5B	1400	975
K07C5.6	2041	91
K07C5.7	1845	420
K07C5.8	2936	1928
K07C5.9	371	55
K07C6.10	894	372
K07C6.11	1006	745
K07C6.2	1500	1333
K07C6.3	1562	1338
K07C6.4	1698	107
K07C6.5	1578	304
K07C6.6	903	772
K07C6.7	906	523
K07C6.8	882	742
K07C6.9	907	144
K07D4.2	951	94
K07D4.3	1101	202

K07D4.4	537	62
K07D4.5	458	26
K07D4.6	1170	669
K07D4.7A	3813	3080
K07D4.7B	2387	1654
K07D4.8	1076	284
K07D4.9.1	421	110
K07D4.9.2	428	110
K07D8.1	6721	5339
K07E1.1	949	598
K07E12.1A.1	39733	11727
K07E12.1A.2	39782	11771
K07E12.1B	36851	11414
K07E3.1	4005	552
K07E3.2	2404	1241
K07E3.3	1118	211
K07E3.4A	2122	539
K07E3.4B	2181	598
K07E3.7A.1	4111	1953
K07E3.7A.2	4234	2076
K07E3.7B	4220	2062
K07E3.8A	1290	440
K07E3.8B.1	911	61
K07E3.8B.2	981	131
K07E3.9	810	285
K07E8.11	1032	814
K07E8.1	465	223
K07E8.3.1	913	241
K07E8.3.2	928	241
K07E8.3.3	949	241
K07E8.5	1065	27
K07E8.6A	1159	231
K07E8.6B	794	231
K07E8.7	1375	300
K07E8.9	1023	119
K07F5.11	908	231
K07F5.12	1064	54
K07F5.13A	2350	784
K07F5.13B	2027	133
K07F5.13C	2297	256
K07F5.15A	405	128
K07F5.15B.1	585	128
K07F5.15B.2	588	130
K07F5.15B.3	533	86

K07F5.16	484	245
K07F5.21	221	34
K07F5.4	1647	705
K07F5.5	309	140
K07F5.6	1459	270
K07F5.7	405	296
K07F5.8	1010	320
K07G5.1	3514	71
K07G5.2	903	25
K07G5.3	3672	283
K07G5.4	1059	233
K07G5.5	1133	917
K07G5.6.1	1260	921
K07G5.6.2	1289	950
K07H8.10	2693	597
K07H8.11	1031	184
K07H8.1	1571	1022
K07H8.16	144	7
K07H8.2A	1839	246
K07H8.2B.1	1827	234
K07H8.2B.2	1873	280
K07H8.2C.1	1664	71
K07H8.2C.2	1873	280
K07H8.2C.3	1779	186
K07H8.3	751	124
K07H8.5	972	744
K07H8.6A	5077	533
K07H8.6B	722	533
K07H8.6C	5079	533
K07H8.8	1044	874
K07H8.9	1070	329
K08A2.1.1	1344	699
K08A2.1.2	1456	811
K08A2.2	1089	845
K08A2.4	1220	217
K08A2.5A.1	2846	110
K08A2.5A.2	2928	61
K08A2.5C.1	1872	110
K08A2.5C.2	1954	61
K08A8.10	145	67
K08A8.13	143	59
K08A8.14	128	45
K08A8.15	149	48
K08A8.16	202	71

K08A8.18	139	25
K08A8.19	137	40
K08A8.1A	1473	389
K08A8.1B	911	389
K08A8.20	148	68
K08A8.22	215	50
K08A8.23	449	159
K08A8.25	212	45
K08A8.26	196	36
K08A8.27	149	6
K08A8.2A.1	1614	421
K08A8.2A.2	1868	675
K08A8.2B.1	1590	397
K08A8.2B.2	1868	675
K08A8.2B.3	1403	210
K08A8.31	214	43
K08A8.3	3015	1422
K08B12.11	206	76
K08B12.1	1251	671
K08B12.13	150	72
K08B12.2A.1	2188	77
K08B12.2A.2	2253	142
K08B12.2B.1	597	77
K08B12.2B.2	440	142
K08B12.3	847	276
K08B12.5.1	4830	4721
K08B12.5.2	5408	4721
K08B12.6	214	73
K08B12.7	201	50
K08B12.8	331	227
K08B12.9	211	18
K08B4.1A	2553	207
K08B4.1B	2546	200
K08B4.1C	2548	202
K08B4.1D	2900	1742
K08B4.2	536	255
K08B4.3	1680	413
K08B4.4	1663	1332
K08B4.6	528	105
K08B5.1	1122	741
K08B5.2	977	268
K08B5.7	225	62
K08C7.1	1575	684
K08C7.2.1	1868	506

K08C7.2.2	1898	536
K08C7.2.3	2001	639
K08C7.3A.1	11208	3724
K08C7.3A.2	11214	3724
K08C7.3B.1	11111	3724
K08C7.3B.2	11118	3724
K08C7.3C.1	11144	3724
K08C7.3C.2	11151	3724
K08C7.3D.1	11084	3811
K08C7.3D.2	11091	3811
K08C7.4	730	369
K08C7.5	1677	376
K08C7.7A	949	42
K08C7.7B	944	42
K08C9.10	318	31
K08C9.1	918	496
K08C9.2	816	622
K08C9.4	978	235
K08C9.6	470	171
K08D10.10	452	280
K08D10.12A	640	26
K08D10.14.1	802	41
K08D10.14.2	739	9
K08D10.18	555	148
K08D10.2A	693	187
K08D10.2B	554	48
K08D10.3A	768	461
K08D10.3B	692	385
K08D10.4	717	204
K08D10.5	1809	762
K08D10.7.1	992	3
K08D10.7.2	980	748
K08D10.8	975	738
K08D12.1	832	187
K08D12.2	1026	451
K08D12.3A	678	76
K08D12.3B.1	381	226
K08D12.3B.2	376	82
K08D12.4	387	202
K08D12.5A	1067	681
K08D12.5B	1049	663
K08D12.6	2229	98
K08D12.7	378	98
K08D12.8	331	56

K08D8.10	247	74
K08D8.1	261	126
K08D8.12A	458	284
K08D8.12B	458	314
K08D8.3	1691	919
K08D8.4A	1741	849
K08D8.4B	1417	1041
K08D8.4C	1905	849
K08D8.4D	1612	849
K08D8.6A	1716	395
K08D8.6B	1144	792
K08D8.7A	1152	418
K08D8.7B	723	284
K08D8.9	264	143
K08D9.2	1392	762
K08D9.3	2267	497
K08D9.6	1693	1214
K08E3.10	643	60
K08E3.1	2263	501
K08E3.2	831	458
K08E3.3A	1987	1788
K08E3.3B	1969	1788
K08E3.4	2108	740
K08E3.5A.1	1765	20
K08E3.5A.2	1762	17
K08E3.5A.3	1891	146
K08E3.5B	1861	91
K08E3.5C	1769	239
K08E3.5D	1786	91
K08E3.5E	1884	354
K08E3.5F	1793	263
K08E3.6.1	2307	641
K08E3.6.2	2325	659
K08E3.7A.1	1281	982
K08E3.7A.2	1343	1044
K08E3.7B.1	744	630
K08E3.7B.2	806	692
K08E3.7C	1352	1053
K08E3.8	1588	339
K08E4.1	4061	3244
K08E4.2A	833	296
K08E4.2B	882	345
K08E4.3A	1283	252
K08E4.3B	974	252

K08E4.4	270	77
K08E4.5A	1081	35
K08E4.5B	1164	118
K08E4.6	948	435
K08E4.7	1016	110
K08E4.8	933	168
K08E5.10	149	63
K08E5.1A	4088	3964
K08E5.1B	1244	1003
K08E5.2A	2225	894
K08E5.2B.1	2133	802
K08E5.2B.2	2285	954
K08E5.3A	11582	2090
K08E5.3B	9936	444
K08E5.6	372	231
K08E7.1.1	1522	263
K08E7.1.2	1650	391
K08E7.2.1	598	220
K08E7.2.2	565	220
K08E7.2.3	601	220
K08E7.2.4	700	220
K08E7.4	357	181
K08E7.5A	3833	2424
K08E7.5B	1688	698
K08E7.5C	2800	1391
K08E7.5D	1832	344
K08E7.5E	2261	852
K08E7.6	948	729
K08E7.7	2257	55
K08E7.8A	621	91
K08E7.9	4100	2904
K08F11.1B	168	4
K08F11.3.1	1678	242
K08F11.3.2	1404	65
K08F11.3.3	1402	63
K08F11.4A	1407	2
K08F11.4B.1	1062	102
K08F11.4B.2	1382	62
K08F11.4B.3	1329	11
K08F4.1.1	2744	453
K08F4.11	722	115
K08F4.1.2	2692	453
K08F4.12	282	142
K08F4.1.3	2775	484

K08F4.2	1911	86
K08F4.3	781	132
K08F4.4	1760	387
K08F4.5	834	47
K08F4.7	796	146
K08F4.9	839	77
K08F8.10	186	73
K08F8.1A.1	1782	922
K08F8.1A.2	1896	1036
K08F8.1A.3	1793	933
K08F8.1B.1	1650	922
K08F8.1B.2	1764	1036
K08F8.1B.3	1661	933
K08F8.1C.1	1577	717
K08F8.1C.2	1781	921
K08F8.1C.3	1508	648
K08F8.1D.1	1735	785
K08F8.1D.2	1785	785
K08F8.1E.1	1667	717
K08F8.1E.2	1871	921
K08F8.1E.3	1598	648
K08F8.1E.4	1717	717
K08F8.2	1407	476
K08F8.3.1	1603	330
K08F8.3.2	1695	422
K08F8.4A	1563	1055
K08F8.4B	1411	903
K08F8.5A	1023	764
K08F8.5B	1107	848
K08F8.6	9279	5013
K08F8.7	685	128
K08F8.8	208	34
K08F8.9	281	163
K08F9.1A	1523	432
K08F9.1B	555	382
K08F9.2	1936	1659
K08F9.3A	998	503
K08F9.3B	1037	542
K08F9.3C	950	226
K08F9.3D	848	131
K08G2.12A	1217	637
K08G2.12B	1002	422
K08G2.13	1008	770
K08G2.5	1017	253

K08G2.7	996	692
K08G2.8	1008	272
K08G2.9	1002	233
K08H10.10	483	253
K08H10.15	297	169
K08H10.16	183	64
K08H10.1A.1	2363	1773
K08H10.1A.2	2633	61
K08H10.1B.1	3838	1773
K08H10.1B.2	4108	2043
K08H10.1C	2035	1438
K08H10.1D	2212	1615
K08H10.1E	1468	878
K08H10.1F.1	4387	3790
K08H10.1F.2	4657	4060
K08H10.1G	2609	9
K08H10.1H	2561	1971
K08H10.1I	4084	2019
K08H10.1J	4036	1971
K08H10.1K	4633	4036
K08H10.1L	4585	3988
K08H10.1M	2465	1875
K08H10.1N	3940	1875
K08H10.1O	4489	3892
K08H10.1P	2665	2068
K08H10.4	1877	1041
K08H10.6	1440	833
K08H10.7	3219	2844
K08H10.9	699	156
K08H2.10	975	288
K08H2.1	791	352
K08H2.2	782	246
K08H2.3	917	548
K08H2.4	484	133
K08H2.5	939	714
K08H2.6	802	284
K08H2.7	436	168
K08H2.8	1479	385
K08H2.9	1382	173
K09A11.1	1898	1055
K09A11.2	1476	207
K09A11.3	1503	702
K09A11.4	1517	1242
K09A11.5	1953	1195

K09A9.1	3563	1035
K09A9.2.1	1170	90
K09A9.2.2	1169	89
K09A9.3	1798	139
K09A9.4	2351	348
K09A9.5	1661	235
K09A9.6A	2873	2443
K09A9.6B	2846	2416
K09A9.6C	2714	2284
K09A9.8	417	173
K09B11.10	2321	417
K09B11.1A	1463	427
K09B11.1B	1338	302
K09B11.1C	1569	38
K09B11.2A	1744	1503
K09B11.2B	872	631
K09B11.9A	2826	2651
K09B11.9B	2765	2590
K09B3.1A	600	121
K09B3.1B	660	314
K09B3.1C	366	20
K09C4.10	3306	2762
K09C4.1A	1769	873
K09C4.1B	660	7
K09C4.2	513	317
K09C4.4	1455	924
K09C4.5	1720	1474
K09C4.6	618	406
K09C4.8	2278	257
K09C4.9	324	38
K09C6.2	1035	342
K09C6.3	305	74
K09C6.4	882	683
K09C6.5	879	649
K09C6.7A	1800	1418
K09C6.7B	1790	1408
K09C6.8	1667	1265
K09C6.9	626	229
K09C8.1	2681	2157
K09C8.2	857	257
K09C8.3A	1683	78
K09C8.3B	1704	102
K09C8.4	2018	43
K09C8.5	4087	2762

K09C8.6	300	38
K09C8.7	462	144
K09C8.8	435	72
K09C8.9	376	95
K09D9.10	903	151
K09D9.11	2586	329
K09D9.12.1	1762	1154
K09D9.12.2	1760	1152
K09D9.13	1086	863
K09D9.1	901	788
K09D9.2	1568	460
K09D9.3	936	712
K09D9.6	999	764
K09D9.7	1008	118
K09D9.8	1008	466
K09D9.9	860	406
K09E10.1A	2079	1577
K09E10.1B	1599	1097
K09E10.2	2088	1242
K09E2.1	2748	1791
K09E2.2	1926	862
K09E2.3	972	367
K09E2.4A	3860	2028
K09E2.4B	1309	567
K09E2.6	144	19
K09E3.2	330	80
K09E3.5	954	154
K09E3.6	987	669
K09E3.7	2753	1953
K09E4.1	1195	493
K09E4.2A	2086	85
K09E4.2B	1927	366
K09E4.3A	1138	258
K09E4.3B	825	443
K09E4.4.1	2240	437
K09E4.4.2	2314	511
K09E4.5	1755	532
K09E4.6	429	31
K09E9.1.1	1936	244
K09E9.1.2	1895	203
K09E9.1.3	1947	255
K09E9.1.4	1867	175
K09E9.2	1762	394
K09E9.3	1477	1308

K09E9.4	219	53
K09E9.7	337	118
K09F5.1	1245	41
K09F5.2	5216	4294
K09F5.3.1	361	136
K09F5.3.2	385	160
K09F5.5	1422	216
K09F5.6	2901	2266
K09F5.8	142	58
K09F6.11	482	362
K09F6.3	4151	3328
K09F6.4	2531	526
K09F6.6	3075	952
K09F6.7	978	78
K09F6.8	1255	12
K09F6.9	2199	880
K09G1.1A	933	162
K09G1.1B	945	174
K09G1.1C	1128	357
K09G1.1D	1043	272
K09G1.1E	1030	259
K09G1.2	531	119
K09G1.4A	2281	500
K09G1.4B	2686	800
K09G1.4C	2713	800
K09G1.4D	2368	762
K09G1.5	209	75
K09H11.11	576	119
K09H11.1	3039	273
K09H11.14	150	40
K09H11.15	339	42
K09H11.3	3784	51
K09H11.4	1893	1130
K09H11.6	501	395
K09H11.9	577	93
K09H9.1	1125	33
K09H9.2.1	1377	455
K09H9.2.2	1395	473
K09H9.5	557	306
K09H9.7	891	282
K09H9.8	695	296
K09H9.9	363	179
K10B2.1	2628	49
K10B2.2A	1616	1230

K10B2.2B	802	416
K10B2.3A	1095	475
K10B2.3B	1031	96
K10B2.4	512	150
K10B2.5	3489	482
K10B3.10A	7785	3451
K10B3.10B	7800	3466
K10B3.1B	461	121
K10B3.5	2177	1693
K10B3.6A.1	2103	1140
K10B3.6A.2	2105	1140
K10B3.6B	2559	2294
K10B3.6C	552	253
K10B3.6D.1	2181	1218
K10B3.6D.2	2183	1218
K10B3.7.1	1163	332
K10B3.7.2	1204	373
K10B3.8.1	1161	314
K10B3.8.2	1243	396
K10B3.9.1	595	148
K10B3.9.2	975	346
K10B4.1	3633	2568
K10B4.2	1164	686
K10B4.3	2666	1783
K10B4.4	1273	796
K10B4.5	1035	476
K10B4.6A	1316	698
K10B4.6B	1012	696
K10C2.12	288	82
K10C2.14	399	116
K10C2.1	7175	812
K10C2.2	1049	569
K10C2.3	1280	819
K10C2.4.1	1448	912
K10C2.4.2	1531	995
K10C2.5	723	343
K10C2.6	497	371
K10C2.8	706	363
K10C3.10	150	9
K10C3.12	219	70
K10C3.2	1214	378
K10C3.3	1017	383
K10C3.4A	2246	978
K10C3.4B	765	531

K10C3.5A	2866	2270
K10C3.5B	2299	1712
K10C3.6A.1	1902	3
K10C3.6A.2	1988	3
K10C3.6A.3	1933	34
K10C3.6B.1	1985	3
K10C3.6B.2	2016	34
K10C3.6C.1	2027	38
K10C3.6C.2	2113	38
K10C3.6D.1	1992	3
K10C3.6D.2	2078	3
K10C3.6E.1	2016	34
K10C3.6E.2	1955	8
K10C3.7	150	16
K10C3.8	188	60
K10C3.9	273	75
K10C8.1	1756	163
K10C8.2	1404	473
K10C8.3A.1	1581	970
K10C8.3A.2	2290	1679
K10C8.3B	665	162
K10C8.3C.1	1542	931
K10C8.3C.2	2251	1640
K10C8.4	535	85
K10C9.1	590	131
K10C9.3	894	378
K10C9.6	1008	451
K10C9.7	828	564
K10C9.8	1044	580
K10C9.9	294	101
K10D11.1	1151	351
K10D11.2	1023	810
K10D11.3A	1596	512
K10D11.3B	1566	482
K10D11.3C	1611	527
K10D11.4	1473	240
K10D11.5	1556	968
K10D11.6	1654	107
K10D11.7	456	31
K10D2.10	177	32
K10D2.1A	3026	1930
K10D2.1B	2030	45
K10D2.2	2385	36
K10D2.3	4782	67

K10D2.4	306	95
K10D2.5	512	249
K10D2.6.1	2296	1717
K10D2.6.2	2307	1728
K10D2.7	336	112
K10D2.8	1067	79
K10D3.1	2511	266
K10D3.2	2739	1994
K10D3.3	1139	670
K10D3.4	3417	2465
K10D3.6	610	174
K10D6.1	1656	455
K10D6.16	199	39
K10D6.18	272	42
K10D6.20	197	27
K10D6.21	287	153
K10D6.23	140	41
K10D6.2A	1001	616
K10D6.2B	1055	653
K10D6.2C	792	655
K10D6.2D	800	651
K10D6.4A.1	1374	228
K10D6.4A.2	1721	575
K10D6.4B	1532	386
K10D6.6	1711	1489
K10D6.8	231	10
K10D6.9	147	15
K10F12.3A	3340	2206
K10F12.3B	3312	2178
K10F12.4A	930	620
K10F12.4B.1	760	400
K10F12.4B.2	679	397
K10F12.6	366	108
K10G4.14	273	103
K10G4.2	912	8
K10G4.3	1001	466
K10G4.5	2397	891
K10G4.9	807	411
K10G6.1	1272	365
K10G6.2	978	376
K10G6.3A	6406	143
K10G6.3B	5953	143
K10G6.3C	5383	143
K10G6.3D	4518	1495

K10G6.3E	2877	2668
K10G6.4	1389	195
K10G6.5	856	117
K10G6.9	230	42
K10G9.1	2115	1567
K10G9.2	1130	692
K10G9.3A	1409	726
K10G9.3B	1281	732
K10H10.10A	994	436
K10H10.10B	664	106
K10H10.1.1	1679	658
K10H10.1.2	1479	658
K10H10.12	541	213
K10H10.13	573	460
K10H10.15	279	42
K10H10.2.1	1170	659
K10H10.2.2	1233	722
K10H10.3A	1153	391
K10H10.3B	1018	269
K10H10.3C	1007	245
K10H10.3D	1028	266
K10H10.4A	841	39
K10H10.5	657	323
K10H10.6	948	222
K10H10.7	497	59
K10H10.9	642	293
K11B4.1	1395	925
K11B4.2	589	112
K11C4.13	216	71
K11C4.1	993	612
K11C4.2	940	517
K11C4.3A	7692	1118
K11C4.3B	7827	1118
K11C4.3C	8216	1279
K11C4.3D	7330	1118
K11C4.4.1	1579	991
K11C4.4.2	1579	991
K11C4.5A	16420	11975
K11C4.5B	16240	11795
K11C4.5C	16493	12063
K11C4.5D	16421	11991
K11C4.7	145	53
K11D12.10A	3550	54
K11D12.10B	3364	54

K11D12.1	1356	960
K11D12.12	709	67
K11D12.13	681	261
K11D12.2.1	1638	62
K11D12.2.2	1642	453
K11D12.2.3	1691	115
K11D12.2.4	1680	150
K11D12.3A	1317	76
K11D12.3B	1369	560
K11D12.4	2293	1721
K11D12.5	800	103
K11D12.6	598	342
K11D12.7	706	308
K11D12.8	510	85
K11D12.9	1290	279
K11D2.1	889	422
K11D2.2.1	1322	769
K11D2.2.2	1302	769
K11D2.3A.1	1840	778
K11D2.3A.2	1879	817
K11D2.3C	1326	264
K11D2.4A	1377	1046
K11D2.4B	957	626
K11D2.4C	1155	824
K11D2.4D	723	392
K11D2.4E	1341	1010
K11D2.5	1288	350
K11D2.6	122	11
K11D9.1A	2495	1599
K11D9.1B	2326	1430
K11D9.2A	3649	310
K11D9.2B.1	3328	310
K11D9.2B.2	3466	310
K11D9.2B.3	3288	310
K11D9.2C	3259	74
K11D9.3.1	1639	1208
K11D9.3.2	1740	68
K11D9.5	306	214
K11D9.6	140	57
K11D9.8	358	238
K11D9.9	1613	63
K11E4.1	946	795
K11E4.2	940	650
K11E4.3	1050	312

K11E4.4A	2194	457
K11E4.4B	1573	457
K11E4.5A	2277	1081
K11E4.5B	2154	100
K11E4.6	1011	298
K11E8.1A	1372	116
K11E8.1B.1	719	306
K11E8.1B.2	568	155
K11E8.1B.3	638	225
K11E8.1D.1	2433	306
K11E8.1D.2	2282	155
K11E8.1D.3	2352	225
K11E8.1E.1	2586	306
K11E8.1E.2	2435	155
K11E8.1E.3	2505	225
K11E8.1F.1	2541	306
K11E8.1F.2	2390	155
K11E8.1F.3	2460	225
K11E8.1G.1	2547	306
K11E8.1G.2	2396	155
K11E8.1G.3	2466	225
K11E8.1H.1	2700	306
K11E8.1H.2	2549	155
K11E8.1H.3	2619	225
K11E8.1I.1	1664	306
K11E8.1I.2	1513	155
K11E8.1I.3	1583	225
K11E8.1K.1	1720	306
K11E8.1K.2	1569	155
K11E8.1K.3	1639	225
K11E8.1L.1	1705	306
K11E8.1L.2	1554	155
K11E8.1L.3	1624	225
K11E8.1M	1777	448
K11E8.1N	1390	57
K11E8.1O	1675	466
K11E8.1P	1330	74
K11E8.1Q	1087	113
K11E8.1R	2725	331
K11E8.1S	1480	87
K11E8.1T	1726	470
K11G12.1A	1815	1374
K11G12.1B	1673	1304
K11G12.2	1888	1299

K11G12.3	1641	1523
K11G12.4A	1843	350
K11G12.4B	1570	350
K11G12.5	1394	579
K11G12.6A	1867	1033
K11G12.6B	2018	1184
K11G12.7	1660	1298
K11G12.8	212	20
K11G9.11	144	36
K11G9.1	1718	33
K11G9.13	209	18
K11G9.2	1725	979
K11G9.3	1687	1129
K11G9.4	1195	176
K11G9.5	1682	966
K11G9.7	214	9
K11G9.8	306	132
K11H12.10	563	422
K11H12.11	1312	469
K11H12.12	129	39
K11H12.1	778	21
K11H12.2	720	284
K11H12.3	1122	282
K11H12.4	1290	289
K11H12.5	901	518
K11H12.6A	399	161
K11H12.6B	405	161
K11H12.7	692	38
K11H12.8A	1221	145
K11H12.8B	393	144
K11H12.8C	738	273
K11H12.8D	449	1
K11H12.9A	1474	637
K11H12.9B	1137	642
K11H12.9C	1125	630
K11H12.9D	324	50
K11H3.11	150	55
K11H3.1A	1394	1046
K11H3.1B	1461	76
K11H3.1C.1	1192	844
K11H3.1C.2	1208	860
K11H3.1D.1	1360	1012
K11H3.1D.2	1376	1028
K11H3.2	687	557

K11H3.4	1239	17
K11H3.5B	406	174
K11H3.6	311	43
K11H3.7	1309	642
K11H3.8A	1071	7
K11H3.8B	828	436
K12B6.11	424	86
K12B6.1	3071	1987
K12B6.2	2224	1372
K12B6.3	1023	791
K12B6.4	688	168
K12B6.5	1086	338
K12B6.8.1	2154	334
K12B6.8.2	2158	338
K12B6.9	613	218
K12C11.1A	1632	562
K12C11.1B	942	496
K12C11.2	475	170
K12C11.3A	516	251
K12C11.3B	233	80
K12C11.3C	444	293
K12C11.4A	4355	300
K12C11.4B	4250	195
K12C11.4C	3167	235
K12C11.4D	2861	945
K12C11.5	550	267
K12C11.6	399	146
K12C11.7A	582	379
K12C11.7B	269	66
K12D12.1	4860	4017
K12D12.2.1	5277	2369
K12D12.2.2	5150	2369
K12D12.3	1057	65
K12D12.4A	1073	742
K12D12.4B	1041	742
K12D12.5	2161	1573
K12D9.10	1137	864
K12D9.1	1176	801
K12D9.14	1581	1389
K12D9.3	1089	994
K12D9.4	1104	985
K12D9.9	1128	1052
K12F2.1	6105	824
K12F2.2A	3389	928

K12F2.2B	1940	1591
K12F2.2C.1	2182	68
K12F2.2C.2	2569	108
K12F2.3	136	64
K12F2.5	193	78
K12G11.11	215	31
K12G11.12	145	44
K12G11.1	2382	1729
K12G11.14	241	81
K12G11.2	2178	72
K12G11.3	1323	251
K12G11.4	1064	268
K12G11.5	966	567
K12G11.6	561	447
K12G11.8	145	57
K12G11.9	150	74
K12H4.1	2231	963
K12H4.2	659	412
K12H4.3	1185	494
K12H4.4	730	117
K12H4.5	431	63
K12H4.6	246	61
K12H4.7A	1718	749
K12H4.7B	1564	749
K12H4.8	5927	1523
K12H6.10	132	1
K12H6.11	1209	114
K12H6.12	1352	3
K12H6.1	2292	1829
K12H6.2	993	729
K12H6.3	1163	187
K12H6.5	591	81
K12H6.6A	1096	476
K12H6.6B	1252	785
K12H6.7	954	686
K12H6.8	432	90
K12H6.9	431	125
LLC1.1	2296	1521
LLC1.2A	979	58
LLC1.2B.1	540	15
LLC1.2B.2	369	87
LLC1.2C.1	957	37
LLC1.2C.2	865	338
LLC1.2C.3	491	79

LLC1.2C.4	542	15
LLC1.3A	1800	15
LLC1.3B	892	217
M01A10.1	1912	1010
M01A10.2A	3793	2027
M01A10.2B	939	418
M01A10.2C	3976	2631
M01A10.2D	3517	2172
M01A10.2E	3805	2027
M01A10.2F	3820	2448
M01A10.3.1	1014	99
M01A10.3.2	1224	309
M01A12.1	893	444
M01A8.1A	966	181
M01A8.1B	821	34
M01A8.1C	695	305
M01A8.2A	3186	1582
M01A8.2B	2982	1378
M01B12.3	723	60
M01B12.4A	2546	1889
M01B12.4B	2576	364
M01B12.4C	2703	2021
M01B12.5A.1	2041	964
M01B12.5A.2	2098	1021
M01B12.5B.1	828	75
M01B12.5B.2	885	132
M01B2.11	1125	900
M01B2.1	1604	1131
M01B2.6	1353	203
M01B2.7	909	678
M01B2.8	453	178
M01B2.9	936	526
M01D1.1	1073	871
M01D1.2A	2693	2444
M01D1.2B	2807	2558
M01D7.2	1394	171
M01D7.4	1383	429
M01D7.5	481	78
M01D7.6.1	657	314
M01D7.6.2	661	314
M01D7.6.3	567	314
M01D7.7A	2307	670
M01D7.7B	2232	544
M01D7.9	542	144

M01E10.2A	4223	1747
M01E10.2B	3492	1364
M01E10.3	438	47
M01E11.1	1154	261
M01E11.2	1720	1238
M01E11.3	2927	1372
M01E11.4A	1038	599
M01E11.4B	1064	625
M01E11.4C	1784	599
M01E11.5.1	1004	124
M01E11.5.2	1026	146
M01E11.6	2020	213
M01E11.7A	3747	2503
M01E11.7B.1	1856	612
M01E11.7B.2	1791	547
M01E11.7C	3258	1915
M01E11.7D	2340	1915
M01E5.1	1436	152
M01E5.2	1681	525
M01E5.3A	1835	1552
M01E5.3B	1829	1546
M01E5.3C	2524	1552
M01E5.4	1164	187
M01E5.5A	3196	443
M01E5.5B	2677	1958
M01E5.6	2200	1645
M01F1.1	1407	209
M01F1.2.1	669	380
M01F1.2.2	789	500
M01F1.3.1	1135	66
M01F1.3.2	1199	130
M01F1.3.3	1324	255
M01F1.4A	2679	157
M01F1.4B	2560	38
M01F1.5.1	2080	1081
M01F1.5.2	2143	1144
M01F1.6	536	94
M01F1.7	3460	12
M01F1.8A	1104	784
M01F1.8B	579	100
M01F1.9	1569	920
M01G12.10	435	288
M01G12.1	1026	591
M01G12.12	4788	3626

M01G12.13	1026	591
M01G12.14	1093	21
M01G12.4	1059	38
M01G12.6	1500	239
M01G12.7	1397	44
M01G12.9	1956	1264
M01G4.1	192	63
M01G5.1	2698	801
M01G5.3	1767	602
M01G5.5	2145	1011
M01G5.6	494	178
M01H9.1	676	88
M01H9.2	1334	278
M01H9.3A	1158	565
M01H9.3B	1466	548
M01H9.3C	1083	490
M01H9.3D.1	1565	972
M01H9.3D.2	1040	447
M01H9.3E	1460	548
M01H9.4A	533	102
M01H9.4B	857	213
M01H9.4C	1150	506
M01H9.4D	644	213
M01H9.4E	937	506
M01H9.4F	801	157
M01H9.4H	371	171
M01H9.5	631	46
M02A10.1	393	72
M02A10.2A	1996	1205
M02A10.2B	1550	1196
M02A10.2C	1559	1205
M02A10.2D	1987	1196
M02A10.3A	2216	1240
M02A10.3B	2159	1183
M02A10.3C	2033	1183
M02B1.1A	1123	42
M02B1.1B	987	666
M02B1.1C	735	414
M02B1.2	875	335
M02B1.3	1629	254
M02B1.4	906	554
M02B7.1	918	122
M02B7.2A	968	624
M02B7.2B	737	393

M02B7.3A	2346	1870
M02B7.3B	2200	1724
M02B7.4A	730	268
M02B7.4B	735	42
M02B7.5A	2337	183
M02B7.5B	2066	1528
M02B7.5C	1509	1351
M02B7.5D	1494	1336
M02B7.6A	848	553
M02B7.6B	671	376
M02B7.9	1242	290
M02D8.11	366	21
M02D8.1	831	154
M02D8.2	464	251
M02D8.3	2939	271
M02D8.4A	1990	162
M02D8.4B	1636	162
M02D8.4C	1962	162
M02D8.5	2739	248
M02D8.7	1319	743
M02E1.1A	3602	69
M02E1.1B.1	2643	69
M02E1.1B.2	2299	69
M02E1.2	416	77
M02F4.1	1200	82
M02F4.2	571	388
M02F4.3	1577	901
M02F4.7	1178	237
M02F4.8.1	1141	817
M02F4.8.2	1237	913
M02G9.1A	3068	280
M02G9.1B	4838	280
M02G9.2	1385	846
M02G9.3	885	191
M02G9.4A	185	46
M02H5.10	1002	704
M02H5.11	1008	729
M02H5.1	1304	1062
M02H5.3	1430	872
M02H5.4	1281	824
M02H5.5	1555	401
M02H5.6	1402	1162
M02H5.8	438	61
M02H5.9	1005	221

M03A1.1A	4291	159
M03A1.1B	4306	159
M03A1.3	1061	919
M03A1.6A	2923	1018
M03A1.6B	2807	902
M03A1.6C	2998	1093
M03A1.6D	2863	958
M03A1.6E	3047	93
M03A1.7.1	508	87
M03A1.7.2	605	184
M03A1.8	1311	821
M03A8.1	1402	203
M03A8.2	7400	5300
M03A8.3	1457	758
M03A8.4	1447	1134
M03A8.6	202	69
M03B6.1	632	168
M03B6.2	2179	243
M03B6.3	2550	1344
M03B6.4A	921	263
M03B6.4B	633	263
M03C11.1	1236	690
M03C11.2	2616	2168
M03C11.3A	2753	765
M03C11.3B	2520	532
M03C11.4.1	1466	30
M03C11.4.2	1818	30
M03C11.5.1	2587	710
M03C11.5.2	2657	780
M03C11.6	936	605
M03C11.7	1979	972
M03C11.8	3461	1912
M03D4.1A	2969	1363
M03D4.1B	2950	1363
M03D4.1C	2975	1369
M03D4.1D.1	3064	1369
M03D4.1D.2	2833	1369
M03D4.1E	2325	1369
M03D4.1F.1	3058	1363
M03D4.1F.2	2827	1363
M03D4.3	180	15
M03D4.4A	1867	124
M03D4.4B	1719	188
M03D4.74	181	65

M03E7.2	528	122
M03E7.3	336	50
M03E7.4	1736	949
M03E7.5.1	903	688
M03E7.5.2	858	643
M03F4.2B.1	1599	65
M03F4.2B.2	1603	65
M03F4.2B.4	1596	65
M03F4.2B.6	1576	38
M03F4.2C	1633	100
M03F4.3A	1963	991
M03F4.3B	1977	1005
M03F4.3C	1891	919
M03F4.4	492	198
M03F4.6	1377	1137
M03F4.7A	1221	24
M03F4.7B	378	8
M03F8.1	1110	659
M03F8.2A	1293	94
M03F8.2B	1637	333
M03F8.2C	1605	333
M03F8.3A	2431	1077
M03F8.3B	2440	1077
M03F8.4	1352	83
M03F8.5	1843	1327
M03F8.6	792	224
M03F8.7	720	482
M04B2.11	289	143
M04B2.1	3047	395
M04B2.13	272	17
M04B2.2	1238	376
M04B2.3	736	111
M04B2.4	1756	339
M04B2.5A	2064	1793
M04B2.5B	2060	1789
M04B2.5C	1098	827
M04B2.6	276	10
M04B2.7A	781	193
M04B2.7B	673	71
M04B2.7C	637	49
M04B2.7D	769	181
M04B2.7E	631	173
M04B2.7F	751	163
M04C3.1A	3534	633

M04C3.1B	3480	633
M04C3.1C	3609	633
M04C3.1D	3679	633
M04C7.1.1	1237	594
M04C7.1.2	1205	562
M04C7.3	663	237
M04C7.4	567	116
M04C9.1A	862	166
M04C9.1B	749	53
M04C9.2	747	103
M04C9.3A	745	166
M04C9.3B	699	120
M04C9.4	1450	312
M04C9.5A	1496	71
M04C9.5B	1725	71
M04D5.1	1337	308
M04D5.3.1	1063	770
M04D5.3.2	1153	860
M04D8.2	325	88
M04D8.3	296	72
M04D8.5	570	356
M04D8.6	646	291
M04D8.7	554	127
M04F3.1.1	974	5
M04F3.1.2	1033	64
M04F3.4A	651	292
M04F3.4B	542	292
M04F3.5	2200	1170
M04G12.1A	1872	785
M04G12.1B	1775	779
M04G12.1C.1	1712	625
M04G12.1C.2	1822	735
M04G12.1D.1	1727	731
M04G12.1D.2	1724	728
M04G12.1D.3	1525	298
M04G12.1E	978	404
M04G12.2	1563	50
M04G12.3	2214	99
M04G12.4A	2334	30
M04G12.4B.1	2245	1467
M04G12.4B.2	2313	1535
M04G7.1	855	354
M04G7.2A	1786	450
M04G7.2B	1678	342

M04G7.3A	1858	88
M04G7.3B	1725	838
M04G7.5	228	115
M05B5.10	149	53
M05B5.1	1338	699
M05B5.2.1	884	102
M05B5.2.2	896	114
M05B5.3.1	1534	453
M05B5.3.2	1583	1
M05B5.4	1370	230
M05B5.5A	1601	120
M05B5.5B	1156	111
M05B5.6	1699	482
M05D6.2	1760	548
M05D6.3	1194	163
M05D6.4	1371	597
M05D6.5A	727	117
M05D6.5B	727	117
M05D6.6.1	946	530
M05D6.6.2	758	342
M05D6.6.3	813	397
M05D6.7	1284	506
M05D6.8A	508	111
M05D6.8B	625	408
M05D6.9	889	214
M106.1	4426	1978
M106.2	1507	632
M106.3A.1	1541	981
M106.3A.2	1504	981
M106.3B.1	1526	966
M106.3B.2	1489	966
M106.4A	2730	934
M106.4B	2837	1041
M106.4C	2682	886
M106.5	1421	674
M106.7	479	91
M106.8	721	370
M110.1	1710	1046
M110.2	1152	991
M110.3	917	592
M110.4A	3761	229
M110.4B	3758	229
M110.4C.1	3703	171
M110.4D	3465	2086

M110.4E	3022	1647
M110.5A.1	2012	560
M110.5A.2	2196	744
M110.5B.1	2018	560
M110.5B.2	2202	744
M110.5C	2071	619
M110.5D.1	2018	560
M110.5D.2	2202	744
M110.7	3337	2798
M110.8A	304	132
M110.8B	353	42
M110.9	617	191
M116.2	936	41
M116.5	3607	680
M117.1	1689	264
M117.13	224	56
M117.14	944	610
M117.2A.1	1251	190
M117.2A.2	1107	190
M117.2B.1	1044	127
M117.2B.2	1182	127
M117.4	2089	877
M142.1A	833	7
M142.1B	780	92
M142.1C	908	82
M142.2.1	1838	1542
M142.2.2	1856	1560
M142.4	823	348
M142.5	906	59
M142.6A	3031	2080
M142.6B	393	187
M142.6C	2971	2080
M142.8A	802	530
M151.1	1412	860
M151.2	1886	34
M151.3	1459	1124
M151.4	1784	171
M151.6	1088	200
M151.9	1131	552
M153.1	1089	722
M153.2	1387	500
M153.3	774	210
M153.4	453	293
M153.5	702	32

M153.6	143	18
M162.11	1251	293
M162.15	150	19
M162.1	579	395
M162.5	1482	1162
M163.10	210	1
M163.1	1157	483
M163.11	726	410
M163.2	2032	578
M163.3	902	215
M163.4	2589	34
M163.5	1310	958
M163.6	567	319
M163.7	784	252
M163.8.1	724	268
M163.8.2	507	51
M163.9	228	20
M176.10	1424	969
M176.11	874	260
M176.1A	929	295
M176.1B	1037	434
M176.2	1626	78
M176.3	713	347
M176.5	961	556
M176.6A	1552	1355
M176.6B	1429	1232
M176.7.1	1670	664
M176.7.2	1681	675
M176.8	1454	562
M18.1	1128	102
M18.2	458	234
M18.3	1475	1121
M18.5	3836	69
M18.6	1360	157
M18.7A.1	959	333
M18.7A.2	1093	467
M18.7B	1139	308
M18.8	1458	661
M195.1	1021	40
M195.2A	1425	687
M195.2B	1477	739
M195.2C.1	1059	321
M195.2C.2	852	108
M195.3	2360	1562

M195.4B	580	101
M195.6	198	70
M199.134	243	69
M199.1	990	563
M199.2.1	1606	1319
M199.2.2	1604	1317
M199.3	1944	887
M199.4	762	120
M199.5A	2080	106
M199.5B	1792	106
M199.6	912	480
M199.7	858	347
M199.9	254	116
M28.10	906	245
M28.1	1968	774
M28.2	2046	1196
M28.4	2221	784
M28.5.1	522	87
M28.5.2	747	308
M28.6	1656	892
M28.7	2076	790
M28.8	2644	2241
M28.9.1	2650	2235
M28.9.2	2633	2218
M4.1A	1819	1573
M4.1B	1825	1579
M57.2A.1	1962	269
M57.2A.2	2002	269
M57.2B	341	140
M60.10	191	23
M60.12	208	59
M60.2.1	1812	203
M60.2.2	1948	339
M60.4A	679	2
M60.4B.1	611	202
M60.4B.2	666	4
M60.4B.3	634	225
M60.5	2301	921
M60.6	1266	659
M60.7	1359	1155
M60.9	221	48
M6.1A	4188	1050
M6.1B	4065	1050
M6.1C	2323	1050

M6.1D	1974	1471
M6.3	872	326
M6.4	926	92
M70.1A	2842	2639
M70.1B	2826	2639
M70.2	597	1
M70.3A	2826	2328
M70.3B	2770	2272
M70.4A	2601	1691
M70.4B	948	47
M7.10	663	241
M7.12	793	486
M7.13	1059	284
M7.1	984	299
M7.2A	1768	425
M7.2B	1805	462
M7.3	2040	36
M7.5	2089	395
M7.7	1208	968
M7.8	693	98
M79.14	128	20
M79.1A	4081	3291
M79.1B	4012	3222
M79.1C	3997	3207
M79.2	1420	326
M79.4	545	15
M7.9	587	200
M79.8	193	45
M88.10	215	59
M88.11	142	20
M88.1.1	1695	625
M88.1.2	1709	639
M88.2	810	98
M88.4	1161	887
M88.5A	2736	1470
M88.5B	2425	1159
M88.5C	2814	1470
M88.5D	2927	1159
M88.6A	1259	412
M88.6B	2201	1354
M88.6C	809	202
M88.7	727	102
M88.9	142	48
MTCE.21	1118	547

MTCE.23	772	60
MTCE.25	1303	741
MTCE.26	1602	35
MTCE.33	952	351
PAR2.1	615	74
PAR2.3A	2061	1555
PAR2.3B	1770	1264
PAR2.4A.1	2879	228
PAR2.4A.2	2630	228
PAR2.4A.3	3148	291
PAR2.4B.1	3220	2675
PAR2.4B.2	2971	2675
PDB1.1A	1191	393
PDB1.1B	1109	311
PDB1.1C	414	50
R01B10.1A	606	101
R01B10.1B	369	83
R01B10.2	198	40
R01B10.3	378	85
R01B10.4	1162	174
R01B10.5	1564	875
R01B10.6	990	503
R01E6.11	150	29
R01E6.16	150	39
R01E6.1A	3045	1084
R01E6.1B	3204	1180
R01E6.2	702	365
R01E6.3A	1114	740
R01E6.3B	989	615
R01E6.4	1926	849
R01E6.5	939	32
R01E6.6	1279	935
R01E6.7	925	191
R01H10.1	2255	912
R01H10.3A	1951	139
R01H10.3B	1750	139
R01H10.3C	1967	139
R01H10.3D	1495	139
R01H10.4	890	154
R01H10.5	663	500
R01H10.6	1086	65
R01H10.7	2716	2254
R01H10.8	3047	1729
R01H2.1	315	151

R01H2.2	1242	763
R01H2.3	1788	87
R01H2.4	1545	288
R01H2.5	1074	611
R01H2.6	672	314
R01H2.7	714	323
R01H2.8	395	226
R02C2.1	1146	656
R02C2.2	958	641
R02C2.3	2230	604
R02C2.4	1461	139
R02C2.5	822	111
R02C2.6	993	821
R02D1.1	1338	621
R02D1.2	1004	781
R02D3.1A	3087	774
R02D3.1B	3141	774
R02D3.2	2494	463
R02D3.3A	1641	303
R02D3.3B	600	265
R02D3.4A	2436	564
R02D3.4B	1707	1345
R02D3.4C	1162	800
R02D3.5	1367	594
R02D3.6	494	131
R02D3.7	1570	226
R02D3.8	901	337
R02D5.1	1145	105
R02D5.16	146	2
R02D5.20	147	45
R02D5.21	185	56
R02D5.22	215	65
R02D5.3	907	259
R02D5.4	299	26
R02D5.6A	1008	502
R02D5.6B	1026	520
R02D5.6C	978	472
R02D5.6D	969	472
R02D5.7	557	15
R02D5.8	861	478
R02D5.9	282	104
R02E12.2A	1911	1687
R02E12.2B	1914	969
R02E12.4	1920	376

R02E12.5	307	160
R02E12.6.1	768	75
R02E12.6.2	916	223
R02E12.6.3	1223	530
R02E12.8	1680	1237
R02E4.1	867	423
R02E4.2	1074	55
R02E4.3	371	143
R02E4.4	253	45
R02F11.10	1134	543
R02F11.11	228	11
R02F11.1	796	240
R02F11.2	952	594
R02F11.3A	1961	782
R02F11.3B	2027	848
R02F11.4	2070	48
R02F2.1A.1	1668	692
R02F2.1A.2	1697	721
R02F2.1B.1	1669	698
R02F2.1B.2	1698	727
R02F2.1B.3	1587	698
R02F2.1C.1	904	3
R02F2.1C.2	933	32
R02F2.1D.1	1566	590
R02F2.1D.2	1697	721
R02F2.2	3623	1385
R02F2.4	1426	20
R02F2.5	714	66
R02F2.6	405	68
R02F2.7.1	2176	1377
R02F2.7.2	2187	1388
R02F2.8.1	1569	1322
R02F2.8.2	1629	1382
R02F2.9	603	334
R03A10.11	205	61
R03A10.1	469	81
R03A10.2	424	46
R03A10.3	2421	2066
R03A10.4A	1494	737
R03A10.4B.1	1494	737
R03A10.4B.2	1424	667
R03A10.5	1311	1023
R03A10.6.1	1833	1229
R03A10.6.2	1953	1349

R03C1.1A	1056	334
R03C1.1B	1407	334
R03C1.3A	1191	379
R03C1.3B	783	227
R03D7.1	3947	85
R03D7.14	143	22
R03D7.15	294	66
R03D7.2	1957	631
R03D7.4	1755	99
R03D7.5	1136	546
R03D7.6A	730	148
R03D7.6C	642	62
R03D7.7	1211	95
R03D7.8	1791	1506
R03D7.9	207	37
R03E1.1.1	3572	1526
R03E1.1.2	3652	1606
R03E1.2	1227	853
R03E1.3	1556	766
R03E1.4	582	146
R03E9.10	334	36
R03E9.1	1172	214
R03E9.2	2131	206
R03E9.3A	3238	724
R03E9.3B	3035	724
R03E9.3C	3178	724
R03E9.3D	2688	724
R03E9.4	1641	1174
R03E9.6	148	46
R03E9.7	330	157
R03E9.9	133	10
R03G5.1A.1	1726	1096
R03G5.1A.2	1624	1458
R03G5.1A.3	1917	1096
R03G5.1C	1821	1044
R03G5.1D.1	1624	994
R03G5.1D.2	1522	1356
R03G5.1D.3	1815	994
R03G5.2.1	1757	110
R03G5.2.2	1771	124
R03G5.3	3947	1933
R03G5.5A	680	218
R03G5.6A	986	433
R03G5.6B	231	104

R03G5.8	141	37
R03G8.1	1992	648
R03G8.3	2163	894
R03G8.4	2361	1714
R03G8.5	1017	280
R03G8.6	2349	1122
R03H10.1	1347	525
R03H10.2	1382	896
R03H10.4	444	47
R03H10.5	444	215
R03H10.6	1880	893
R03H10.7	1285	489
R03H4.11	296	23
R03H4.1	2004	1461
R03H4.2	1008	422
R03H4.3	1050	817
R03H4.4	1014	852
R03H4.5	2324	1641
R03H4.6	2119	338
R03H4.9	1056	316
R04A9.1	312	52
R04A9.2	3445	392
R04A9.3	906	207
R04A9.4	839	173
R04A9.5	1673	744
R04A9.6	1410	300
R04B3.1	1719	284
R04B3.2	1235	157
R04B3.3	1848	428
R04B3.7	141	49
R04B5.1	329	175
R04B5.3	1226	1083
R04B5.4A	1487	968
R04B5.4B	1496	968
R04B5.4C	1478	968
R04B5.5	1126	722
R04B5.6	1320	348
R04B5.7	969	439
R04B5.8	1014	604
R04B5.9	1655	1082
R04D3.10	999	587
R04D3.1	1503	702
R04D3.12	963	690
R04D3.2	1377	926

R04D3.3	1522	1008
R04D3.4	839	268
R04D3.6	973	680
R04D3.7	963	568
R04D3.8	1011	608
R04D3.9	999	692
R04E5.10A	1923	1095
R04E5.10B	2071	1095
R04E5.2	2383	1931
R04E5.7	930	772
R04E5.8A	3301	574
R04E5.8B	1504	147
R04E5.9	1256	487
R04F11.10	192	53
R04F11.11	269	120
R04F11.17	200	73
R04F11.18	211	76
R04F11.1	840	523
R04F11.19	208	31
R04F11.2.1	477	226
R04F11.2.2	550	226
R04F11.2.3	757	433
R04F11.2.4	562	266
R04F11.27	149	7
R04F11.3	1283	69
R04F11.4A	2077	884
R04F11.4B	2251	1058
R04F11.4C	2212	86
R04F11.4D	2146	953
R04F11.5	656	250
R04F11.7	192	25
R05A10.1A	1382	872
R05A10.2	667	351
R05A10.3	1196	92
R05A10.4	547	105
R05A10.5	913	474
R05A10.6	1474	154
R05A10.7	1083	830
R05A10.8	843	600
R05C11.1	1069	197
R05C11.2	1140	58
R05C11.3	4007	2287
R05C11.4A	867	246
R05C11.4B	319	40

R05D11.1	1673	1087
R05D11.3	652	224
R05D11.4	2233	930
R05D11.5	635	33
R05D11.6.1	1139	207
R05D11.6.2	1145	207
R05D11.7	609	310
R05D11.8	2189	1323
R05D11.9	2087	461
R05D3.11	4134	974
R05D3.12A	3572	359
R05D3.12B	504	315
R05D3.12D	2443	359
R05D3.2	2643	308
R05D3.3.1	1596	915
R05D3.3.2	1554	873
R05D3.4A	2864	238
R05D3.4B	2873	238
R05D3.5	537	161
R05D3.6	165	54
R05D3.7	3085	51
R05D3.8	1618	1260
R05D3.9	2160	1932
R05D7.1	499	222
R05D7.2	1095	595
R05D7.3A	1116	589
R05D7.3B	1089	613
R05D7.3C	987	511
R05D7.3D	963	487
R05D7.3E	1072	596
R05D7.4	1028	81
R05D7.5	1261	279
R05D8.10	932	490
R05D8.11	785	258
R05D8.2	1002	210
R05D8.3	1035	721
R05D8.5	897	5
R05D8.6	984	645
R05D8.7	910	186
R05D8.8	926	29
R05D8.9	846	442
R05F9.10	1325	79
R05F9.11	1686	1397
R05F9.12	2986	98

R05F9.1A	2028	1476
R05F9.1B	2232	347
R05F9.1C	1847	1295
R05F9.1D	516	279
R05F9.6	1848	1354
R05F9.7	1074	889
R05F9.9	1175	90
R05G6.10A	1645	244
R05G6.10B	1360	640
R05G6.10C	1867	97
R05G6.10D	1822	52
R05G6.10E	1702	3
R05G6.1	860	115
R05G6.20	144	41
R05G6.4	1136	80
R05G6.5	567	372
R05G6.6	1785	917
R05G6.7	1025	615
R05G6.8	2481	1118
R05G6.9	1300	742
R05G9.1	594	119
R05G9.2A	1096	251
R05G9.2B	1230	385
R05G9.3	941	486
R05G9.5	576	387
R05G9R.1	2904	2033
R05H10.1	888	312
R05H10.2.1	2078	1150
R05H10.2.2	2147	1219
R05H10.3A	2078	1539
R05H10.3B	1817	1278
R05H10.5A.1	988	84
R05H10.5A.2	1011	84
R05H10.5B.1	994	90
R05H10.5B.2	1017	90
R05H10.6	4364	1013
R05H10.7	749	269
R05H11.1	1549	923
R05H11.2.1	831	123
R05H11.2.2	492	12
R05H5.1	1089	702
R05H5.2	837	101
R05H5.3.1	595	33
R05H5.3.2	825	258

R05H5.4	1271	107
R05H5.5	856	471
R05H5.6	1014	489
R05H5.7	612	358
R05H5.8	882	170
R06A10.1	725	244
R06A10.2A.1	2200	442
R06A10.2A.2	1523	246
R06A10.2B	1201	18
R06A10.4	1581	675
R06A10.5B	477	28
R06A4.10A	1702	1135
R06A4.10B	1693	1126
R06A4.10C	1841	49
R06A4.2	2822	2224
R06A4.4A	3185	1730
R06A4.4B	1717	308
R06A4.6	1156	924
R06A4.7	2513	591
R06A4.8	4596	2967
R06A4.9A	2675	2268
R06A4.9B	2012	1605
R06B10.1	3711	2398
R06B10.2	3290	2841
R06B10.3	1140	180
R06B10.4A	2485	957
R06B10.4B	2673	957
R06B10.5.1	1500	124
R06B10.5.2	1815	439
R06B9.1	1304	1054
R06B9.2	777	387
R06B9.4	1165	104
R06B9.5	278	161
R06B9.6	1833	34
R06C1.1.1	1732	795
R06C1.1.2	1739	802
R06C1.2	1350	90
R06C1.3A	1706	53
R06C1.4	461	127
R06C1.6	1581	81
R06C7.10.1	6482	5504
R06C7.10.2	6504	5526
R06C7.1	3057	1790
R06C7.2	1250	774

R06C7.3.1	1568	1188
R06C7.3.2	1604	1224
R06C7.3.3	1606	1226
R06C7.4.1	1022	637
R06C7.4.2	1022	637
R06C7.4.3	1035	637
R06C7.5A	1624	1016
R06C7.5B	1538	1047
R06C7.7A.1	1624	160
R06C7.7A.2	2063	599
R06C7.7B	1987	523
R06C7.8	3064	2407
R06C7.9A	2285	1332
R06C7.9B	2277	1332
R06F6.11	368	53
R06F6.1	1593	679
R06F6.12	1374	161
R06F6.13	185	22
R06F6.2	3168	2353
R06F6.4	1555	652
R06F6.5A	1448	33
R06F6.5B	1384	33
R06F6.6	1320	528
R06F6.7	465	115
R06F6.8A	4737	123
R06F6.8B	4743	123
R06F6.9	1571	610
R07A4.1	1831	101
R07A4.2	772	92
R07A4.3	912	384
R07A4.4	1874	997
R07B1.10	1055	377
R07B1.1	1312	157
R07B1.11	434	290
R07B1.12	647	495
R07B1.13	872	232
R07B1.16	129	6
R07B1.20	155	76
R07B1.2.1	716	318
R07B1.2.2	675	277
R07B1.3	1725	1368
R07B1.4	748	202
R07B1.5	1205	210
R07B1.6	418	78

R07B1.7	429	261
R07B1.8	1382	953
R07B1.9	2675	1736
R07B5.3A	1091	774
R07B5.3B	542	225
R07B5.3C	542	225
R07B5.4	1012	445
R07B5.5	1013	96
R07B5.6A	987	643
R07B5.6B	793	449
R07B5.7	1056	569
R07B5.9A.1	4283	2535
R07B5.9A.2	4327	2579
R07B5.9B.1	1978	1546
R07B5.9B.2	2022	1590
R07B5.9C	5065	3317
R07B5.9D	4203	2455
R07B5.9F	5200	3452
R07B5.9G	5074	3317
R07B5.9H	5209	3452
R07B5.9I	4212	2455
R07B5.9J.1	4292	2535
R07B5.9J.2	4336	2579
R07B5.9K.1	1646	1546
R07B5.9K.2	1690	1590
R07B7.10	886	547
R07B7.11	1462	129
R07B7.1	2660	2246
R07B7.12A	1672	848
R07B7.13A	1411	183
R07B7.13B	1049	183
R07B7.14	1221	180
R07B7.15	1285	357
R07B7.16	1465	149
R07B7.2A	2127	463
R07B7.2B	2118	463
R07B7.3A	1285	407
R07B7.3B	1468	1346
R07B7.4A	1447	560
R07B7.4B	1509	622
R07B7.5	1460	211
R07B7.6A	1571	2
R07B7.8	1818	102
R07B7.9A	1540	597

R07B7.9B	1660	717
R07C12.1	1014	281
R07C12.2.1	954	237
R07C12.2.2	901	184
R07C12.3	813	134
R07C3.10	1200	1044
R07C3.11	1200	1048
R07C3.1	1742	521
R07C3.12	1518	1152
R07C3.13	903	498
R07C3.14	519	343
R07C3.15	1251	39
R07C3.2	1075	880
R07C3.3	1413	766
R07C3.4	2196	1839
R07C3.7	1315	39
R07C3.8	1184	964
R07C3.9	940	688
R07D5.1A	1569	1393
R07D5.1B	1365	1189
R07D5.1C	1209	1033
R07D5.2	2550	2177
R07D5.6	135	15
R07E3.1A	1398	789
R07E3.1B.1	1278	669
R07E3.1B.2	1349	740
R07E3.2	666	6
R07E3.3A	1341	832
R07E3.3B	1304	795
R07E3.4	1019	102
R07E3.5A	1668	1252
R07E3.5B	1619	1203
R07E3.6	3123	2489
R07E3.7	1156	245
R07E4.1A	3598	1830
R07E4.1B	3190	1422
R07E4.4	1917	1288
R07E4.5	2606	677
R07E4.6A	1115	65
R07E4.6B	2045	265
R07E4.6C	2119	81
R07E4.7	139	30
R07E5.10A	1390	618
R07E5.10B.1	571	117

R07E5.10B.2	361	119
R07E5.10B.3	1053	119
R07E5.11	450	87
R07E5.1	2556	28
R07E5.13	534	59
R07E5.14.1	683	45
R07E5.14.2	575	45
R07E5.15	893	498
R07E5.17	1164	794
R07E5.2	770	521
R07E5.3.1	1358	925
R07E5.3.2	1375	942
R07E5.4	853	238
R07E5.5	578	325
R07E5.6	1417	1088
R07E5.7	733	362
R07E5.8.1	2305	1406
R07E5.8.2	2311	1412
R07G3.10	239	133
R07G3.1	1032	463
R07G3.11	132	24
R07G3.14	162	35
R07G3.16	171	64
R07G3.2	980	241
R07G3.3A	6128	4609
R07G3.3B	6143	4609
R07G3.3C	4130	3740
R07G3.5	1004	517
R07G3.6	1128	147
R07G3.7A	1739	356
R07G3.7B.1	1565	182
R07G3.7B.2	1333	383
R07G3.8	1283	857
R07H5.10A	961	102
R07H5.10B	1021	162
R07H5.1	1043	504
R07H5.11B	372	218
R07H5.2A	2125	993
R07H5.2B	1651	519
R07H5.3A	905	689
R07H5.3B	975	759
R07H5.3C	789	573
R07H5.7	612	127
R07H5.8	1285	471

R07H5.9	934	386
R08A2.1	905	281
R08A2.5A	893	182
R08A2.5B	841	109
R08A2.9	156	9
R08B4.10	202	21
R08B4.13	144	61
R08B4.14	142	43
R08B4.1A.1	3713	2514
R08B4.1A.2	3738	2514
R08B4.1B.1	3782	254
R08B4.1B.2	3807	254
R08B4.2	1799	641
R08B4.3	763	42
R08B4.4	699	164
R08B4.6	202	79
R08B4.7	147	57
R08C7.10A	2570	1870
R08C7.10B	2556	1856
R08C7.10C	2219	1435
R08C7.10D	2205	249
R08C7.10E	632	290
R08C7.11	165	57
R08C7.12A	844	71
R08C7.12B	1093	320
R08C7.12C	915	142
R08C7.12D	630	140
R08C7.2A	1288	36
R08C7.2B	776	36
R08C7.2C.1	942	18
R08C7.2C.2	984	187
R08C7.2D.1	764	255
R08C7.2D.2	862	215
R08C7.3.1	741	158
R08C7.3.2	955	372
R08C7.3.3	798	215
R08C7.4	1392	831
R08C7.5A	1452	416
R08C7.5B	1407	416
R08C7.6	1710	780
R08C7.7	1071	723
R08C7.9	1430	78
R08D7.1	1475	401
R08D7.2.1	1412	39

R08D7.2.2	1462	89
R08D7.3	1807	139
R08D7.4A.1	1307	507
R08D7.4A.2	1401	601
R08D7.4B.1	862	578
R08D7.4B.2	885	601
R08D7.5	583	116
R08D7.6A	3238	172
R08D7.6B	3229	172
R08D7.7	1722	291
R08E3.10	204	57
R08E3.11	473	154
R08E3.12	267	77
R08E3.1A	4635	4122
R08E3.1B	4648	4122
R08E3.2	1068	658
R08E3.3A	1387	813
R08E3.3B	1867	813
R08E3.4A	1520	8
R08E3.4B	2092	8
R08E3.8	204	53
R08E5.1.1	1077	253
R08E5.1.2	1113	289
R08E5.2A	1080	616
R08E5.2B.1	1080	616
R08E5.2B.2	1058	594
R08E5.2B.3	1123	659
R08E5.2B.4	1052	588
R08E5.2C	1058	616
R08E5.3	2341	364
R08E5.4	402	244
R08F11.1	2493	99
R08F11.2	1002	10
R08F11.3	1585	174
R08F11.4	1210	691
R08F11.5	1146	775
R08F11.6	1199	1113
R08F11.7	2379	1264
R08H2.10	393	154
R08H2.1.1	1079	386
R08H2.1.2	1082	386
R08H2.1.3	1017	279
R08H2.2	1020	336
R08H2.3	942	739

R08H2.4	963	252
R08H2.5	1062	921
R08H2.7	1035	758
R08H2.9	1350	163
R09A1.1	3661	3239
R09A1.2	1308	501
R09A1.3	1014	477
R09A1.5	628	245
R09A8.1A	3712	1816
R09A8.1B	2169	273
R09A8.1C	3729	1833
R09A8.2	2928	2499
R09A8.3.1	3106	724
R09A8.3.2	2949	724
R09A8.3.3	3206	46
R09A8.4	822	322
R09A8.5	928	353
R09B3.1A.1	1001	242
R09B3.1A.2	979	220
R09B3.1B	744	242
R09B3.2	476	198
R09B3.3	416	60
R09B3.4	680	20
R09B3.5	852	37
R09B5.10	207	34
R09B5.11	1669	985
R09B5.1	1377	1104
R09B5.12	1167	516
R09B5.2	269	24
R09B5.3	358	47
R09B5.4	1706	142
R09B5.5	1267	165
R09B5.6	1023	230
R09B5.7A	732	500
R09B5.7B	1026	175
R09B5.9	408	55
R09D1.10	1475	485
R09D1.12	1368	918
R09D1.13	1167	434
R09D1.2	1570	187
R09D1.3	1310	429
R09D1.5	1350	148
R09D1.6	1362	153
R09D1.8.1	1432	166

R09D1.8.2	1422	156
R09E10.1.1	1054	361
R09E10.1.2	1026	333
R09E10.1.3	1069	376
R09E10.13	380	158
R09E10.2	697	192
R09E10.3	2174	494
R09E10.4A	1403	229
R09E10.4B	1621	185
R09E10.5	4331	175
R09E10.6	974	41
R09E10.7	5533	4132
R09E12.1	891	505
R09E12.3	1143	635
R09E12.4	1008	286
R09F10.1	1252	88
R09F10.14	211	26
R09F10.16	355	150
R09F10.3	1791	703
R09F10.4	1689	16
R09F10.5	685	223
R09F10.6	1035	464
R09F10.8	1246	1004
R09F10.9	412	188
R09G11.1	1221	540
R09G11.2A.1	1800	678
R09G11.2A.2	1715	593
R09G11.2C.1	2329	583
R09G11.2C.2	2409	663
R09G11.2D.1	1488	583
R09G11.2D.2	1568	663
R09H10.11	170	17
R09H10.1	985	548
R09H10.2	882	625
R09H10.4	2871	34
R09H10.5.1	4994	770
R09H10.5.2	5022	770
R09H10.6	558	189
R09H10.7	285	47
R09H3.3.1	1034	863
R09H3.3.2	1033	864
R102.10	1069	416
R102.11A	654	346
R102.11B	349	41

R102.15	548	323
R102.3	1206	929
R102.4A.1	1334	142
R102.4A.2	1359	167
R102.4B	1391	199
R102.4C.1	1278	86
R102.4C.2	1343	151
R102.4C.3	1359	167
R102.4C.4	1557	365
R102.4D.1	1338	86
R102.4D.2	1403	151
R102.4D.3	1419	167
R102.4D.4	1617	365
R102.4E.1	587	86
R102.4E.2	652	151
R102.4E.3	668	167
R102.4E.4	866	365
R102.5A	1331	351
R102.5B	1267	351
R102.6	706	250
R102.8	512	293
R102.9	596	73
R105.1	720	449
R105.5	580	407
R106.1	468	144
R106.2	1158	32
R106.5	377	42
R107.1A	1724	209
R107.1B	1898	383
R107.2	1005	658
R107.4A	2740	2218
R107.4B	2764	2298
R107.4C	2752	2243
R107.4D	2945	2479
R107.5A	984	74
R107.5B	991	73
R107.6A.1	3280	2234
R107.6A.2	3302	2234
R107.6B	3311	2234
R107.7.1	751	225
R107.7.2	805	279
R107.7.3	768	242
R107.8	4822	638
R10A10.2	616	223

R10A10.3	198	69
R10D12.10	1530	282
R10D12.1	1661	1099
R10D12.11	957	711
R10D12.12	620	237
R10D12.13A	949	61
R10D12.13B	955	61
R10D12.13C.1	882	137
R10D12.14A	1135	405
R10D12.14B	1141	405
R10D12.14C	1198	405
R10D12.14D	1447	405
R10D12.17	1523	1153
R10D12.18	477	73
R10D12.2	1128	314
R10D12.4	1032	791
R10D12.5	891	397
R10D12.7	276	18
R10D12.8	1831	549
R10D12.9.1	956	485
R10D12.9.2	1035	564
R10E11.10	363	157
R10E11.11	150	49
R10E11.1A	6657	6073
R10E11.1B	6690	6106
R10E11.1C	6570	5986
R10E11.2	961	392
R10E11.3A.1	1529	76
R10E11.3A.2	1620	167
R10E11.3B	1478	879
R10E11.4	1603	658
R10E11.5A	1435	1195
R10E11.5B.1	752	331
R10E11.5B.2	989	749
R10E11.6A	1349	449
R10E11.6B	1587	449
R10E11.7	1033	767
R10E11.8.1	806	70
R10E11.8.2	815	79
R10E11.9	492	110
R10E12.12	222	135
R10E12.1A	2761	2252
R10E12.1B	2823	2314
R10E12.1C	2715	1155

R10E12.1D	1671	1162
R10E12.2	1459	28
R10E12.4	252	129
R10E12.5	123	20
R10E12.6	173	40
R10E4.1.1	1401	752
R10E4.11A	1176	459
R10E4.11B	684	365
R10E4.11C	924	459
R10E4.1.2	1436	787
R10E4.2A.1	1342	1061
R10E4.2A.2	1313	1032
R10E4.2A.3	1340	1059
R10E4.2A.4	1317	1036
R10E4.2B.1	1498	1217
R10E4.2B.2	1474	1193
R10E4.2C	620	339
R10E4.2E	494	213
R10E4.2F.2	1137	1
R10E4.2F.3	1164	19
R10E4.2F.4	1141	164
R10E4.2J	951	35
R10E4.2K	1452	849
R10E4.2L.1	2346	1220
R10E4.2L.2	2322	1196
R10E4.2M.1	1754	1142
R10E4.2M.2	1730	1118
R10E4.2N.1	2216	1064
R10E4.2N.2	2187	1035
R10E4.2N.3	2214	1062
R10E4.2N.4	2191	1039
R10E4.2O	1461	849
R10E4.2Q	1767	1164
R10E4.2R	2410	1161
R10E4.3	918	755
R10E4.4.1	2422	1852
R10E4.4.2	2439	1869
R10E4.5A	998	155
R10E4.5B	776	303
R10E4.5C	616	143
R10E4.5D	998	155
R10E4.6	1161	1038
R10E4.7	744	480
R10E4.9	681	417

R10E8.1.1	1738	379
R10E8.1.2	1458	170
R10E8.2	513	429
R10E8.3	1823	908
R10E8.5	930	148
R10E8.6	5249	1957
R10E8.8.1	964	766
R10E8.8.2	1092	766
R10E9.1	2248	392
R10E9.2	893	23
R10E9.3A	780	356
R10E9.3B	764	356
R10F2.1	8389	7272
R10F2.4	596	12
R10F2.5	663	311
R10F2.6	3578	1611
R10H10.1	786	19
R10H10.2	1794	1492
R10H10.3	1180	321
R10H10.4	315	102
R10H10.5	1059	395
R10H10.6	549	289
R10H10.7	2820	1394
R10H1.1	816	623
R10H1.2A	1232	68
R10H1.2B	885	68
R10H1.4	580	190
R10H1.5	1614	138
R11.1	977	106
R11.2	664	67
R11.3	1587	1073
R11.4	331	25
R119.2	1740	118
R119.3.1	888	324
R119.3.2	883	324
R119.4	2311	528
R119.5A	2092	555
R119.5B	2089	555
R119.6	1985	521
R119.7A	2277	624
R119.7B	1091	334
R11A5.1A	2926	959
R11A5.1B	2896	2439
R11A5.2	1195	182

R11A5.3	569	129
R11A5.4A.1	2431	1521
R11A5.4A.2	2275	1365
R11A5.4B.1	2137	1521
R11A5.4B.2	1981	1365
R11A5.4C.1	2224	1314
R11A5.4C.2	2206	1296
R11A5.4C.3	2232	1322
R11A5.4D.1	2206	1296
R11A5.4D.2	2128	1218
R11A5.4D.3	2207	1297
R11A5.4D.4	2217	1307
R11A5.4D.5	2209	1299
R11A5.6	342	168
R11A5.7	2714	1629
R11A8.1	1752	1012
R11A8.3	1536	427
R11A8.4A	2030	584
R11A8.4B.1	1975	529
R11A8.4B.2	1955	509
R11A8.4B.3	2010	564
R11A8.5	1224	289
R11A8.6.1	3804	1716
R11A8.6.2	3597	1716
R11A8.7A	8458	7753
R11A8.7B	8392	7687
R11A8.7C	4945	4240
R11A8.7D	5011	4306
R11A8.7E	5006	4301
R11A8.7F	8464	7759
R11A8.7G	8398	7693
R11A8.7H	5012	4307
R11A8.8	882	112
R11B5.11	219	63
R11B5.1	2515	382
R11B5.4	161	8
R11B5.5	287	42
R11B5.6	131	30
R11D1.10A.1	1262	500
R11D1.10A.2	1288	526
R11D1.10B	1200	506
R11D1.11	882	610
R11D1.12A	374	13
R11D1.12B	209	16

R11D1.1A	2057	1505
R11D1.1B	2067	1515
R11D1.1C	1992	1505
R11D1.1D	2002	1515
R11D1.2	1245	381
R11D1.3	617	116
R11D1.4	591	236
R11D1.6	1041	301
R11D1.7	1386	1020
R11D1.8.1	450	127
R11D1.8.2	437	127
R11D1.9	651	191
R11E3.1	1730	298
R11E3.19	432	111
R11E3.2	1724	1396
R11E3.4	2299	1264
R11E3.5A	1589	761
R11E3.5B	807	85
R11E3.5C	1222	761
R11E3.5D	1325	497
R11E3.6A	3039	2518
R11E3.6B	1066	545
R11E3.7A	2192	820
R11E3.8A.1	2356	1075
R11E3.8A.2	2275	1075
R11E3.8B.1	2356	1075
R11E3.8B.2	2275	1075
R11F4.1.1	1857	390
R11F4.1.2	1950	483
R11F4.2A	1059	59
R11F4.2B	1325	59
R11F4.3	1512	38
R11G10.1A	2221	1453
R11G10.1B.1	1665	897
R11G10.1B.2	1826	1058
R11G10.2	1629	799
R11G10.3	990	324
R11G10.4	165	61
R11G11.1	1269	796
R11G11.12	1326	1072
R11G11.13	1101	368
R11G11.14	1356	32
R11G11.2A	1189	185
R11G11.2B	1311	307

R11G1.1	5048	409
R11G11.5	591	218
R11G11.7	509	111
R11G11.9	1038	96
R11G1.2	639	168
R11G1.3	612	268
R11G1.4A	1789	1206
R11G1.4B.1	1486	1206
R11G1.4B.2	1783	1206
R11G1.6A	3056	393
R11G1.6B	3081	393
R11G1.6C	2793	105
R11G1.6D	2768	105
R11G1.7	445	187
R11H6.1.1	1587	687
R11H6.1.2	1620	720
R11H6.2.1	1558	1094
R11H6.2.2	1625	1161
R11H6.3A	975	30
R11H6.3B	963	30
R11H6.3C	996	51
R11H6.4A	584	318
R11H6.4B	288	22
R11H6.4C	463	197
R11H6.5	1360	540
R12A1.2	1675	137
R12A1.3	1184	38
R12A1.4	1746	939
R12B2.1A.1	1838	1433
R12B2.1A.2	1881	1476
R12B2.1A.3	1910	1505
R12B2.1B.1	755	350
R12B2.1B.2	1877	1472
R12B2.2	1040	533
R12B2.3	752	500
R12B2.4	1734	234
R12B2.5A.1	3743	520
R12B2.5A.2	3706	483
R12B2.5A.3	4226	520
R12B2.5B.1	2659	520
R12B2.5B.2	2622	483
R12B2.5B.3	2670	520
R12B2.6	321	5
R12B2.8	243	43

R12C12.10	406	146
R12C12.1A.1	3039	1401
R12C12.1A.2	3084	1446
R12C12.1B	1861	176
R12C12.2	1298	84
R12C12.3	1119	721
R12C12.5	973	296
R12C12.6A	902	657
R12C12.6B.1	559	314
R12C12.6B.2	798	215
R12C12.7	1227	512
R12C12.8A	2135	1833
R12C12.8B	910	608
R12C12.9A.1	988	552
R12C12.9A.2	1015	579
R12C12.9B	889	508
R12E2.11	1069	540
R12E2.1	1901	212
R12E2.12	745	24
R12E2.13	746	434
R12E2.14	316	78
R12E2.15.1	314	78
R12E2.15.2	276	78
R12E2.2	2878	1948
R12E2.3	1235	327
R12E2.4A	1186	730
R12E2.5	1454	66
R12E2.6	334	33
R12E2.7.1	406	78
R12E2.7.2	398	70
R12E2.8	813	301
R12E2.9	1235	990
R12G8.1	608	89
R12G8.2	1694	1004
R12H7.1	2054	388
R12H7.2	1475	272
R12H7.3	1070	341
R12H7.4	1357	158
R12H7.5	630	435
R12H7.7	146	11
R13.2	618	198
R13.3	1811	1043
R134.1	3423	78
R134.2	3357	74

R13.4A	3213	2225
R13.4B.1	2840	1738
R13.4B.2	2807	1705
R13.9	146	8
R13A1.10	998	682
R13A1.13	147	59
R13A1.14	148	20
R13A1.2A	4160	784
R13A1.2B	4160	784
R13A1.2C	4227	76
R13A1.2D	4053	677
R13A1.2E	3957	581
R13A1.4A	2334	1350
R13A1.4B	2331	1347
R13A1.4C	2337	1353
R13A1.4D	2214	1230
R13A1.5	545	357
R13A1.7	258	2
R13A1.8	1073	454
R13A1.9	1593	851
R13A5.10	530	220
R13A5.12	1729	1267
R13A5.15	1032	389
R13A5.17	412	4
R13A5.1A.1	2247	1144
R13A5.1A.2	2272	1169
R13A5.1B.1	2564	2175
R13A5.1B.2	2589	2200
R13A5.1C	2176	1841
R13A5.1D.1	2224	1144
R13A5.1D.2	2249	1169
R13A5.1E.1	2236	866
R13A5.1E.2	2261	891
R13A5.3	590	309
R13A5.4	1287	761
R13A5.5	1088	256
R13A5.6	465	56
R13A5.7	1570	333
R13A5.8	626	403
R13A5.9	2084	526
R13D11.10	336	62
R13D11.1	921	78
R13D11.3	900	251
R13D11.4	766	518

R13D11.6	999	861
R13D11.8	1295	328
R13D7.10	1068	674
R13D7.11	251	5
R13D7.2	1130	383
R13D7.3	1008	309
R13D7.4	903	353
R13D7.6	930	293
R13D7.7	698	206
R13F6.10	3221	1849
R13F6.13	150	59
R13F6.1	580	326
R13F6.2	624	430
R13F6.3	1168	861
R13F6.4A	8000	3284
R13F6.4C	3261	1922
R13F6.4D	8611	415
R13F6.4E	9005	809
R13F6.4F	8783	587
R13F6.5	823	199
R13F6.6A	2136	55
R13F6.6B	1987	1641
R13F6.6C	2430	363
R13F6.8	636	95
R13F6.9	1316	436
R13G10.1	4768	3214
R13G10.2	2642	348
R13G10.4	2169	184
R13H4.10	223	44
R13H4.11	499	263
R13H4.1	3993	1748
R13H4.2A	837	472
R13H4.2B	774	582
R13H4.2C	777	412
R13H4.2D	729	537
R13H4.2E	619	501
R13H4.3	1225	118
R13H4.4A	3179	2450
R13H4.4B	3189	2450
R13H4.4C	592	17
R13H4.4D	2653	2524
R13H4.4E	2653	2524
R13H4.4F	2808	799
R13H4.5	1197	686

R13H4.6	877	549
R13H4.7A	1263	338
R13H4.7B	1044	338
R13H4.8	680	275
R13H7.2A	2191	307
R13H7.2B	1610	126
R13H7.2C	1503	19
R13H7.2D	1538	54
R13H7.2E	1517	33
R13H8.1A	2347	1214
R13H8.1B.1	2602	1430
R13H8.1B.2	3043	1871
R13H8.1C.1	3035	1436
R13H8.1C.2	3476	1877
R13H8.1D	1972	1034
R13H8.1E	2160	597
R13H8.1F	2124	1186
R13H8.1G	1636	698
R13H8.1H	2134	1196
R13H9.1	788	31
R13H9.5	1055	552
R13H9.6	1193	428
R144.10	728	21
R144.11	1017	427
R144.12	1148	906
R144.1	3010	1737
R144.13	588	196
R144.2A	2843	2386
R144.2B	937	299
R144.3A	768	403
R144.3B	774	403
R144.4A	1383	247
R144.4B	1389	247
R144.5	1795	105
R144.6	1165	734
R144.7A	2703	1697
R144.7B	4657	687
R148.1A	1508	919
R148.1B	1420	919
R148.2	648	97
R148.3A	3390	3094
R148.3B	3940	3130
R148.4A.1	1054	101
R148.4A.2	1053	101

R148.4B	570	101
R148.5A	1864	1414
R148.5B	2068	81
R148.6	524	248
R148.7	769	425
R151.10.1	832	66
R151.10.2	842	76
R151.1	1329	1036
R151.13	131	58
R151.15	164	54
R151.2A	1617	1088
R151.2B.1	1638	103
R151.2B.2	1501	972
R151.2B.3	1500	971
R151.2B.4	1656	121
R151.2C	1418	889
R151.2D.1	1773	238
R151.2D.2	1879	344
R151.3.1	696	231
R151.3.2	711	246
R151.3.3	769	231
R151.4A	951	195
R151.4B	309	10
R151.5A	2014	118
R151.5B	1892	118
R151.6	1009	263
R151.7A.1	2139	141
R151.7A.2	2153	155
R151.7B.1	1440	141
R151.7B.2	1454	155
R151.8	2362	531
R151.9	590	182
R153.1A	2435	442
R153.1B	2170	105
R153.1C	2216	98
R153.1D	2865	454
R153.1E	2662	135
R153.1F	1335	311
R153.1G	2696	499
R153.1H	3161	499
R153.8	140	6
R155.1A	1571	34
R155.1B.1	1165	74
R155.1B.2	1471	380

R155.2	3889	3510
R155.3	3548	2141
R155.4	2622	1008
R160.10	296	56
R160.11	174	49
R160.1A	1966	10
R160.1B	1948	10
R160.3	675	144
R160.4	258	16
R160.5A	311	54
R160.5B	416	233
R160.6	648	43
R160.7	2601	291
R160.8	340	155
R166.1	1762	156
R166.2	2540	323
R166.3	730	230
R166.4	1712	161
R166.5A	2479	2240
R166.5B	2435	2196
R166.6	1791	272
R17.2	1948	799
R173.1	1119	35
R17.3	1334	72
R173.3	2387	1694
R173.4	421	92
R186.1	1141	260
R186.11	148	38
R186.2A	1032	793
R186.2B	627	388
R186.3	925	48
R186.4	1369	760
R186.5	1655	1357
R186.6	1369	1061
R186.7	1363	38
R193.1	561	80
R193.2	5802	100
R193.3	1113	526
R193.4	136	42
R31.1A	12970	761
R31.1B	12903	694
R31.1C	12656	434
R31.1D	12573	694
R31.2A	1800	233

R31.2B.1	1651	84
R31.2B.2	1785	218
R31.2C	993	321
R31.2D	1139	102
R31.3	1457	189
R31.4	312	78
R31.5	213	32
R52.4	507	177
R52.5	552	171
R52.6	710	346
R52.7	1082	479
R52.9	1465	354
R53.1A.1	1695	1348
R53.1A.2	1806	1459
R53.1B.1	1678	1331
R53.1B.2	1806	1459
R53.1C.1	1695	1348
R53.1C.2	1806	1459
R53.1D	1695	1348
R53.2	910	36
R53.3A	1723	287
R53.3B	1060	93
R53.3C	1679	803
R53.4	670	86
R53.5	751	270
R53.6.1	668	200
R53.6.2	738	265
R53.7A.1	1873	1170
R53.7A.2	1990	1287
R53.7B	1971	137
R57.1A	2397	827
R57.1B	1757	777
R57.1C	2347	777
R57.2	760	451
R74.10	309	11
R74.1.1	3747	2510
R74.1.2	3769	2532
R74.3A	1409	610
R74.3B	1425	843
R74.3C	1334	610
R74.4A.1	1417	235
R74.4A.2	1445	263
R74.4B	1554	372
R74.5A	1692	515

R74.5B.1	1445	268
R74.5B.2	1403	226
R74.5B.3	1688	511
R74.5C	1688	511
R74.6	1340	146
R74.7	1161	776
R74.8A	1693	128
R74.8B	1375	128
R90.11	189	55
R90.12	150	42
R90.1	2592	2052
R90.2	500	108
R90.3	467	154
R90.5A	1528	35
R90.5B	1456	94
R90.5C	1340	30
R90.8	131	54
SSSD1.1	2237	572
T01A4.1A	3703	786
T01A4.1B	3132	1253
T01A4.1C	4585	958
T01A4.1D	3766	849
T01A4.7	287	1
T01B10.12	288	30
T01B10.13	350	170
T01B10.1	643	283
T01B10.2	955	678
T01B10.4A.1	1567	89
T01B10.4A.2	1829	89
T01B10.4B	1850	89
T01B10.5	648	416
T01B11.1	1116	390
T01B11.2A.1	1520	315
T01B11.2A.2	1532	327
T01B11.2B	597	315
T01B11.3	929	298
T01B11.4	947	524
T01B11.5	1661	174
T01B11.7.1	1669	407
T01B11.7.2	1681	419
T01B4.1	1746	1464
T01B4.2A	2350	1089
T01B4.2B	2324	1063
T01B4.2C	2139	878

T01B4.3	484	13
T01B6.10	213	53
T01B6.1	1098	235
T01B6.11	2349	1447
T01B6.3A	1841	288
T01B6.3B	1343	726
T01B6.4	598	326
T01B6.5	136	11
T01B6.9	141	62
T01B7.13	252	126
T01B7.3	795	451
T01B7.4	553	354
T01B7.5A.1	1408	179
T01B7.5A.2	1230	179
T01B7.5B.1	1224	223
T01B7.5B.2	1046	223
T01B7.6	2847	1352
T01B7.7	1164	99
T01B7.8	633	261
T01B7.9	846	565
T01C1.2	1526	986
T01C1.4	423	160
T01C2.1	3269	1267
T01C2.3	225	67
T01C3.10A	3471	483
T01C3.10B	1764	882
T01C3.11A	608	145
T01C3.11B	269	29
T01C3.1	2283	1541
T01C3.13	144	26
T01C3.2	399	106
T01C3.3	877	483
T01C3.4	1160	747
T01C3.5	732	332
T01C3.6.1	481	80
T01C3.6.2	533	133
T01C3.7.1	1177	204
T01C3.7.2	1347	139
T01C3.8A	2033	1222
T01C3.8B	1762	951
T01C3.9	1140	44
T01C4.1	4455	602
T01C4.2A	924	63
T01C4.2B	1024	437

T01C4.2C	969	382
T01C4.3	885	614
T01C4.4	885	1
T01C4.6	903	13
T01C8.12	286	40
T01C8.1A	2399	1717
T01C8.1B	2405	1723
T01C8.1C	2254	1572
T01C8.3	747	278
T01C8.4.1	1207	29
T01C8.4.2	992	447
T01C8.5.1	1418	732
T01C8.5.2	1429	743
T01C8.7.1	2332	1865
T01C8.7.2	2342	1875
T01D1.2A.1	2045	1131
T01D1.2A.2	2294	1131
T01D1.2A.3	1961	1131
T01D1.2A.4	2191	114
T01D1.2A.5	2019	1131
T01D1.2B.1	1898	995
T01D1.2B.2	2158	995
T01D1.2B.3	1825	995
T01D1.2B.4	1893	990
T01D1.2B.5	1883	995
T01D1.2C	1485	136
T01D1.2D.1	1886	755
T01D1.2D.2	2147	755
T01D1.2D.3	1814	755
T01D1.2D.4	2032	114
T01D1.2D.5	1872	755
T01D1.2E.1	2039	908
T01D1.2E.2	2300	908
T01D1.2E.3	1967	908
T01D1.2E.4	2185	114
T01D1.2E.5	2025	908
T01D1.2F.1	2045	908
T01D1.2F.2	2306	908
T01D1.2F.3	1973	908
T01D1.2F.4	2191	114
T01D1.2F.5	2031	908
T01D1.2G.1	1821	908
T01D1.2G.2	2081	908
T01D1.2G.3	1748	908

T01D1.2G.4	1967	114
T01D1.2G.5	1806	908
T01D1.3	794	215
T01D1.4	766	71
T01D1.5	1014	202
T01D1.6	1273	243
T01D1.7	948	281
T01D1.8.1	479	309
T01D1.8.2	560	390
T01D3.1A	1480	771
T01D3.1B	9846	771
T01D3.2	985	385
T01D3.3A	2544	519
T01D3.3B.1	3228	1203
T01D3.3B.2	3328	1303
T01D3.4	972	407
T01D3.5	1574	131
T01D3.6A	2918	2151
T01D3.6B	2882	2115
T01E8.1.1	1659	573
T01E8.1.2	1669	583
T01E8.2	1395	678
T01E8.3	4422	1070
T01E8.4	1365	786
T01E8.5	4057	2054
T01E8.6	703	20
T01E8.8	1124	340
T01E8.9	574	9
T01G1.1A	5003	3365
T01G1.1B.1	1653	449
T01G1.1B.2	1816	612
T01G1.1C	4928	3739
T01G1.1D.1	1166	898
T01G1.1D.2	1653	449
T01G1.1D.3	1317	1049
T01G1.2	820	126
T01G1.3	3612	2771
T01G1.4	1088	221
T01G1.6	140	22
T01G1.7	139	13
T01G5.1	1484	569
T01G5.2	1752	137
T01G5.3	1005	352
T01G5.4	1248	537

T01G5.5	1029	438
T01G5.7	1000	582
T01G6.10	828	420
T01G6.1	885	411
T01G6.2	1337	118
T01G6.3	1074	603
T01G6.4	1227	772
T01G6.5	1186	513
T01G6.6A	1286	822
T01G6.6B	1292	828
T01G6.7	1350	623
T01G6.8	1376	744
T01G9.2A	1726	158
T01G9.2B	1717	149
T01G9.3	2058	1398
T01G9.4	1914	1065
T01G9.5A	1608	146
T01G9.5B	1625	146
T01G9.6A	1089	663
T01G9.6B.1	1092	666
T01G9.6B.2	1090	664
T01G9.6B.3	1164	738
T01H10.1	1245	329
T01H10.2	1203	1026
T01H10.3	1200	124
T01H10.5	1206	393
T01H10.6	1206	101
T01H10.7	1200	357
T01H10.8	8491	6436
T01H3.10	399	160
T01H3.1.1	978	27
T01H3.1.2	998	47
T01H3.2	3020	2315
T01H3.3	2166	414
T01H3.4	1714	464
T01H3.5	562	303
T01H3.8	206	37
T01H3.9	206	39
T01H8.1A	2826	1793
T01H8.1B	2808	1775
T01H8.1C	2747	1714
T01H8.1D	2731	1775
T01H8.1E	2843	1781
T01H8.2	1038	551

T01H8.5A	6535	1248
T01H8.5B	683	133
T01H8.5C	6352	1065
T01H8.5D	6361	1074
T01H8.5E	5375	88
T02B11.1	888	671
T02B11.3A	690	115
T02B11.3B	1624	115
T02B11.4	681	91
T02B11.5	993	501
T02B11.6	1442	804
T02B11.7	1994	1823
T02B11.8	424	130
T02B11.9	483	73
T02B5.1	2109	860
T02B5.3	2203	1613
T02B5.4	954	105
T02C1.1	531	313
T02C1.2	1051	548
T02C12.1	3316	48
T02C12.2	1453	306
T02C12.3	1384	996
T02C12.5	337	149
T02C5.1A	1345	56
T02C5.1B	1391	51
T02C5.3A	2165	593
T02C5.3B	2248	593
T02C5.5A	4705	148
T02C5.5B	6848	5301
T02C5.5C	6195	4942
T02C5.5D.1	1350	97
T02C5.5D.2	1828	575
T02C5.5E	6678	5425
T02C5.6	183	78
T02D1.3	969	726
T02D1.4	1341	864
T02D1.5	2326	1505
T02D1.6	1424	378
T02D1.7	312	126
T02D1.8	515	201
T02E1.1	808	548
T02E1.2	2024	538
T02E1.3A	2372	170
T02E1.3B	2471	269

T02E1.3C	2366	164
T02E1.5A	999	197
T02E1.5B	989	192
T02E1.5C	781	621
T02E1.6	778	500
T02E1.7	955	472
T02E1.8A	697	195
T02E1.8B	456	23
T02E9.1	1283	276
T02E9.15	294	168
T02E9.16	203	50
T02E9.17	138	13
T02E9.18	202	33
T02E9.21	190	60
T02E9.23	304	79
T02E9.24	170	77
T02E9.25	136	44
T02E9.27	225	1
T02E9.28	140	47
T02E9.2A	1199	547
T02E9.2B	1142	463
T02E9.3	2516	1252
T02E9.5.1	496	305
T02E9.5.2	853	307
T02E9.6	1027	257
T02E9.9	128	11
T02G5.12	1978	1353
T02G5.13A	1418	1
T02G5.13B.1	1414	1
T02G5.13B.2	1395	2
T02G5.14	1032	27
T02G5.3	1476	5
T02G5.7	1313	969
T02G5.8.1	1367	728
T02G5.8.2	1385	746
T02G5.9A	1950	1150
T02G5.9B	2070	113
T02G5.9C.1	2134	1334
T02G5.9C.2	1961	1161
T02G6.11	1341	1067
T02G6.1	561	168
T02G6.2A	1104	621
T02G6.2B	858	375
T02G6.2C	843	360

T02G6.3	580	262
T02G6.4	382	250
T02G6.5A	1377	1158
T02G6.5B	1354	1135
T02G6.5C	1362	1143
T02G6.5D	975	756
T02G6.6	351	46
T02G6.7	807	505
T02H6.10	351	151
T02H6.11.1	547	180
T02H6.11.2	567	192
T02H6.1A	1815	1480
T02H6.1B	1855	1532
T02H6.2	1998	1133
T02H6.3	453	93
T02H6.5	1210	863
T02H6.6	207	43
T02H6.9	636	416
T03D3.11	1053	784
T03D3.1	1573	81
T03D3.14	999	512
T03D3.2	1008	615
T03D3.3	1324	687
T03D3.4	1041	265
T03D3.5	1277	116
T03D3.6	987	534
T03D8.1A	2100	126
T03D8.1B	1573	557
T03D8.1C	2094	120
T03D8.1D	2367	393
T03D8.1E	1957	923
T03D8.2	542	76
T03D8.3	796	416
T03D8.4A	1396	821
T03D8.4B	1390	821
T03D8.4C	1390	815
T03D8.5A	3245	3071
T03D8.5B	3233	3059
T03D8.5C	3221	3047
T03D8.6A	1846	146
T03D8.6B	2083	383
T03D8.7	328	6
T03D8.8A	183	34
T03E6.2	642	213

T03E6.3	1226	337
T03E6.5	981	646
T03E6.7A	1191	309
T03E6.7B.1	1125	243
T03E6.7B.2	1187	308
T03E6.8	1893	1184
T03E6.9	1221	507
T03F1.10	979	657
T03F1.1.1	1535	638
T03F1.1.2	1609	712
T03F1.12	570	298
T03F1.13	533	233
T03F1.2	758	490
T03F1.3	1441	248
T03F1.5.1	1156	499
T03F1.5.2	1348	691
T03F1.6A	1216	425
T03F1.6B	1225	425
T03F1.7	1191	565
T03F1.8A	1134	638
T03F1.8B	1011	515
T03F1.9	2762	2078
T03F6.1	864	55
T03F6.2	1611	910
T03F6.3	983	447
T03F6.4	1294	50
T03F6.5	1776	651
T03F6.6.1	663	249
T03F6.6.2	719	305
T03F6.7	1056	751
T03F6.9	432	231
T03F7.1	2123	74
T03F7.2	1065	294
T03F7.3	1014	161
T03F7.4	1008	157
T03F7.5	939	679
T03F7.6	951	167
T03F7.7A	1406	662
T03F7.7B	1421	662
T03G11.10	1069	310
T03G11.13	197	74
T03G11.14	331	63
T03G11.1	4402	2247
T03G11.17	285	57

T03G11.2	996	404
T03G11.3	1244	1002
T03G11.4	2037	1354
T03G11.6	1232	837
T03G11.8	901	532
T03G11.9	783	54
T03G6.1	1159	670
T03G6.2A	1872	1145
T03G6.2B	1857	1130
T03G6.2C	1847	1120
T03G6.3	1808	160
T04A11.10	993	561
T04A11.12A	873	753
T04A11.12B	984	753
T04A11.1	966	754
T04A11.3	3090	2566
T04A11.4	966	754
T04A11.6	3127	2790
T04A11.8	999	756
T04A11.9	1043	476
T04A6.1A	617	182
T04A6.2	498	98
T04A6.3A	658	62
T04A6.3B	1056	796
T04A6.5	520	289
T04A6.8	957	163
T04A8.11.1	823	128
T04A8.11.2	916	221
T04A8.12	1059	90
T04A8.13	924	786
T04A8.14	4867	702
T04A8.15	2216	84
T04A8.16	2580	505
T04A8.17	138	38
T04A8.18	1374	384
T04A8.1	975	404
T04A8.2	1008	713
T04A8.4	782	142
T04A8.5	1569	108
T04A8.6	1071	278
T04A8.7A	2308	1007
T04A8.7B	2073	772
T04A8.8	1183	193
T04A8.9.1	914	499

T04A8.9.2	1046	631
T04B2.2A	1572	1037
T04B2.2B	1413	878
T04B2.3A	1239	1036
T04B2.3B	881	678
T04B2.5.1	2001	1334
T04B2.5.2	2070	1403
T04B2.6A	901	797
T04B2.6B	967	715
T04B2.7	1219	723
T04B2.8	406	262
T04B8.1	804	148
T04B8.2	1061	216
T04B8.5A	3048	2316
T04B8.5B	3070	2338
T04B8.5C.1	2948	2216
T04B8.5C.2	2799	2067
T04C10.1	2767	1951
T04C10.2A	2059	513
T04C10.2B	2065	513
T04C10.3	1122	659
T04C10.4.1	1067	741
T04C10.4.2	998	741
T04C10.8	139	43
T04C10.9	139	25
T04C12.11	501	170
T04C12.1	352	129
T04C12.14	182	68
T04C12.15	366	59
T04C12.16	220	10
T04C12.17	170	69
T04C12.21	321	174
T04C12.24	143	40
T04C12.25	220	32
T04C12.2A	1101	319
T04C12.2B	993	211
T04C12.30	150	35
T04C12.3.1	533	60
T04C12.32	281	117
T04C12.3.2	554	81
T04C12.4.1	1480	951
T04C12.4.2	1564	26
T04C12.4.3	1559	22
T04C12.5.1	1321	957

T04C12.5.2	1335	971
T04C12.6.1	1264	951
T04C12.6.2	1366	1053
T04C12.6.3	1346	951
T04C12.6.4	1277	964
T04C12.7	785	57
T04C12.8.1	375	36
T04C12.8.2	548	36
T04C12.9	488	164
T04C4.1C	588	85
T04C9.11	142	58
T04C9.1A	3315	127
T04C9.1B	3261	127
T04C9.1C	2040	797
T04C9.2	351	159
T04C9.3	219	74
T04C9.4A.1	527	57
T04C9.4A.2	346	223
T04C9.4B	536	222
T04C9.4C	461	166
T04C9.4D	514	221
T04C9.6A.1	1847	1635
T04C9.6A.2	1880	1668
T04C9.6A.3	1851	1635
T04C9.6A.4	1885	1673
T04C9.6B.1	1944	106
T04C9.6B.2	1948	106
T04C9.7	577	30
T04D1.2	1146	66
T04D1.3A	1695	805
T04D1.3B	888	7
T04D1.3C	1701	812
T04D1.3D	1707	812
T04D1.4	9574	8677
T04D1.7	361	51
T04D3.1	1489	1231
T04D3.2	1916	81
T04D3.3A	2192	1707
T04D3.3B	1799	1314
T04D3.4A	2093	808
T04D3.4B	2237	806
T04D3.4C.1	731	238
T04D3.4C.2	2237	806
T04D3.5.1	1236	243

T04D3.5.2	1185	192
T04D3.8	429	108
T04F3.11	159	67
T04F3.1A	10557	164
T04F3.1B	10356	1885
T04F3.3	1107	914
T04F3.4	527	294
T04F3.5	762	126
T04F3.9	255	44
T04F8.1	1099	492
T04F8.2	1899	416
T04F8.3	534	3
T04F8.4	1155	415
T04F8.6	2730	2186
T04F8.7A	1056	841
T04F8.7B	613	412
T04F8.8A	649	62
T04F8.8B	576	65
T04F8.9	864	360
T04G9.1	5214	129
T04G9.2	2008	505
T04G9.3	1320	108
T04G9.4	1163	407
T04G9.5	812	360
T04G9.6	1803	157
T04G9.7	544	164
T04G9.8	199	69
T04G9.9	150	15
T04H1.2.1	2162	126
T04H1.2.2	2177	141
T04H1.3	435	116
T04H1.4A.1	4102	3672
T04H1.4A.2	4115	3672
T04H1.4B.1	4165	3735
T04H1.4B.2	4178	3735
T04H1.5	936	678
T04H1.6	1238	198
T04H1.7	1924	452
T04H1.8	1686	777
T04H1.9	1388	1111
T05A10.1A	6777	5475
T05A10.1B	2184	619
T05A10.1C	5722	4420
T05A10.1D	6981	5679

T05A10.1E	6882	5580
T05A10.1F	6723	544
T05A10.1G.1	6729	5626
T05A10.1G.2	6005	5626
T05A10.1I	5784	544
T05A10.1J	4530	544
T05A10.1K	2093	1714
T05A10.1L	7098	5796
T05A10.1M	7281	5979
T05A10.3	1401	483
T05A10.5	1426	110
T05A10.6	599	332
T05A10.8	203	39
T05A1.1A	1541	419
T05A1.1B.1	1483	361
T05A1.1B.2	1396	274
T05A1.2	1006	1
T05A12.1	961	249
T05A12.2A	2146	455
T05A12.2B	1944	253
T05A12.2C	1901	210
T05A12.3.1	2326	196
T05A12.3.2	2337	207
T05A12.4	5369	245
T05A1.3A	2328	579
T05A1.3B.1	1115	721
T05A1.3B.2	1468	236
T05A1.5A	1692	11
T05A1.5B	1675	1445
T05A6.11	203	40
T05A6.14	212	76
T05A6.15	207	59
T05A6.17	132	22
T05A6.1	807	190
T05A6.18	203	73
T05A6.19	207	67
T05A6.2A.1	1431	933
T05A6.2A.2	1343	845
T05A6.2B	1299	801
T05A6.2C.1	1063	561
T05A6.2C.2	975	473
T05A6.4	1473	525
T05A6.6	1134	900
T05A6.8	150	46

T05A7.10	1137	657
T05A7.11	3603	358
T05A7.1	839	150
T05A7.2	726	157
T05A7.3	468	144
T05A7.4.1	561	37
T05A7.4.2	577	13
T05A7.5	1380	242
T05A7.6	2402	1188
T05A7.7	856	101
T05A7.8	1092	680
T05A8.1.1	1425	1318
T05A8.1.2	1477	1370
T05A8.3	687	108
T05A8.4	2304	1431
T05A8.5	1145	899
T05A8.6	684	380
T05A8.7	1284	316
T05B11.1	1187	424
T05B11.13	150	39
T05B11.2	1167	727
T05B11.3	1020	144
T05B11.4	1477	348
T05B11.6	1158	761
T05B11.7	852	249
T05B4.10	753	51
T05B4.1	1140	995
T05B4.11	920	108
T05B4.12	735	303
T05B4.14	674	186
T05B4.15	150	73
T05B4.17	374	10
T05B4.2	1366	307
T05B4.3	890	334
T05B4.5	1104	1007
T05B4.6	1119	858
T05B4.7	1131	54
T05B4.8	753	50
T05B4.9	753	46
T05B9.1	1070	711
T05B9.2	824	369
T05B9.3	288	158
T05C1.1	884	649
T05C12.10	3854	373

T05C12.1	1038	795
T05C12.11	1002	121
T05C12.2	1595	839
T05C12.3	976	745
T05C12.4	1906	1113
T05C1.2	438	209
T05C12.5	507	18
T05C12.6A	2185	330
T05C12.6B	2200	328
T05C12.6C	2079	330
T05C12.7	1869	418
T05C12.8	1113	198
T05C12.9	965	548
T05C1.3	811	93
T05C1.4A	3779	1915
T05C1.4B	3745	1915
T05C1.4C	976	41
T05C1.5	303	188
T05C3.2	5382	3036
T05C3.4	1338	155
T05C3.5	1530	738
T05C3.6A	1663	934
T05C3.6B	757	254
T05C3.8	951	779
T05C7.4	174	60
T05C7.5	156	30
T05D4.1.1	1258	525
T05D4.1.2	1311	578
T05D4.3	1614	305
T05D4.4A	2096	1162
T05D4.4B	1885	1162
T05D4.5	1510	510
T05E11.10	189	69
T05E11.1	748	284
T05E11.2A	629	192
T05E11.2B	819	105
T05E11.3A.1	2606	1191
T05E11.3A.2	2488	2357
T05E11.3B.1	2385	970
T05E11.3B.2	2267	2136
T05E11.3B.3	2592	1177
T05E11.3B.4	2459	1044
T05E11.3B.5	2526	1111
T05E11.3B.6	2482	1067

T05E11.4	1417	609
T05E11.5	1914	52
T05E11.6	960	322
T05E11.8	682	178
T05E12.10	592	285
T05E12.1	1032	711
T05E12.2	912	497
T05E12.4	1038	473
T05E12.6A	2086	855
T05E12.6B	1158	855
T05E12.7A	918	441
T05E12.7B	871	598
T05E12.8	362	112
T05E12.9	927	675
T05E7.1	1470	1008
T05E7.2	627	137
T05E7.3	3181	1897
T05E7.4	1009	37
T05E7.5	1376	149
T05E8.1	2724	459
T05E8.2	465	53
T05E8.3	2887	698
T05F1.10	1034	723
T05F1.11	3075	1054
T05F1.13	1131	694
T05F1.15	274	106
T05F1.1A	1841	1573
T05F1.1B	1859	1591
T05F1.2	1933	1235
T05F1.3.1	497	313
T05F1.3.2	707	523
T05F1.4.1	829	538
T05F1.4.2	833	538
T05F1.5	1262	312
T05F1.6	4002	1849
T05F1.7	1362	848
T05F1.8	1314	298
T05F1.9	1151	556
T05G11.1A	1765	1
T05G11.3	1068	266
T05G11.6	1035	361
T05G11.7	1026	359
T05G5.10A	672	80
T05G5.10B.1	574	127

T05G5.10B.2	534	87
T05G5.10C.1	514	69
T05G5.10C.2	448	3
T05G5.10C.3	505	59
T05G5.13	137	18
T05G5.1A	1503	413
T05G5.1B	838	396
T05G5.2	636	5
T05G5.3.1	1185	87
T05G5.3.2	1225	127
T05G5.4	524	14
T05G5.5A	977	232
T05G5.5B	981	236
T05G5.5C	944	202
T05G5.5D	981	236
T05G5.6.1	1128	255
T05G5.6.2	1167	294
T05G5.7A	1016	610
T05G5.7B.1	837	431
T05G5.7B.2	823	417
T05G5.8A.1	2545	1263
T05G5.8A.2	2538	1263
T05G5.8B.1	1873	591
T05G5.8B.2	1866	591
T05G5.9A	2157	1642
T05G5.9B	2151	1636
T05H10.1	4400	1361
T05H10.2	1279	713
T05H10.3	623	178
T05H10.4A	1578	709
T05H10.4B	1554	685
T05H10.5A	3202	1263
T05H10.5B	3205	1266
T05H10.5C	3199	1263
T05H10.6A.1	1610	509
T05H10.6A.2	1607	506
T05H10.6A.3	1944	843
T05H10.6B	1637	536
T05H10.7A	2626	455
T05H10.7B	2397	226
T05H10.8	1134	703
T05H4.10	1514	792
T05H4.1	1035	132
T05H4.11.1	1147	261

T05H4.11.2	1094	208
T05H4.12.1	542	180
T05H4.12.2	595	180
T05H4.12.3	621	206
T05H4.13A.1	1583	1286
T05H4.13A.2	1596	1299
T05H4.13B.1	1910	1286
T05H4.13B.2	1923	1299
T05H4.13C.1	1669	1286
T05H4.13C.2	1682	1299
T05H4.14	1986	132
T05H4.15A	1352	512
T05H4.15B	1311	480
T05H4.15C	1327	512
T05H4.2	1303	90
T05H4.3	3459	3355
T05H4.4	968	703
T05H4.5.1	1033	733
T05H4.5.2	1070	770
T05H4.6A	1883	1586
T05H4.6B.1	1980	1691
T05H4.6B.2	2114	407
T05H4.7	1536	1202
T06A10.106	189	30
T06A10.107	305	44
T06A10.1A	3002	2396
T06A10.1B	2989	2391
T06A10.1C	2262	1656
T06A10.1D	2254	1656
T06A10.3	553	83
T06A1.1	1468	228
T06A1.2	1023	174
T06A1.4	570	363
T06A1.5	1563	989
T06A4.1A	1882	1544
T06A4.1B	1963	1733
T06A4.2	613	7
T06A4.3A	1663	743
T06A4.3B	1523	743
T06C10.2	990	3
T06C10.3	1787	235
T06C10.4	675	54
T06C10.6	1319	879
T06C12.10	1557	988

T06C12.1	1044	913
T06C12.11	966	602
T06C12.12	339	36
T06C12.13A	1297	628
T06C12.13B	1282	628
T06C12.14	777	360
T06C12.2	1041	464
T06C12.6	1370	841
T06C12.7	1371	121
T06C12.8B	1726	1289
T06C12.9	276	84
T06D10.1.1	1138	838
T06D10.1.2	1589	838
T06D10.2	1774	1025
T06D10.3	319	10
T06D4.1A	1559	1186
T06D4.1B.2	1540	1167
T06D4.1B.3	1552	1179
T06D4.2	587	98
T06D4.3	2232	759
T06D4.4	2055	299
T06D8.10	4626	100
T06D8.15	143	26
T06D8.1A	11435	888
T06D8.1B	11420	888
T06D8.1C	10490	9199
T06D8.2	2121	646
T06D8.3	1544	999
T06D8.5	1345	1033
T06D8.6.1	1141	441
T06D8.6.2	1204	504
T06D8.7	585	287
T06D8.8.1	1327	4
T06D8.8.2	1500	177
T06D8.9.1	1118	638
T06D8.9.2	1429	949
T06E4.10	660	9
T06E4.11	1434	3
T06E4.12.1	797	38
T06E4.1	4135	3092
T06E4.14	769	22
T06E4.16	134	43
T06E4.21.1	184	47
T06E4.3A	7715	4843

T06E4.3B	7712	2089
T06E4.3C	3293	421
T06E4.6	938	56
T06E4.7	1107	860
T06E4.8	645	21
T06E4.9	676	11
T06E6.10	814	127
T06E6.1	1398	816
T06E6.11	840	542
T06E6.13	1335	447
T06E6.15	786	36
T06E6.2A.1	1447	126
T06E6.2A.2	1456	135
T06E6.2B	1453	132
T06E6.3	819	528
T06E6.4	1032	866
T06E6.5	1877	592
T06E6.8	1002	659
T06E8.1A	1071	389
T06E8.1B.1	1035	353
T06E8.1B.2	1071	391
T06E8.2	210	51
T06F4.11	196	30
T06F4.12	145	34
T06F4.14	128	39
T06F4.17	235	131
T06F4.19	160	46
T06F4.1A	1244	432
T06F4.1B	555	410
T06F4.2A	3153	2767
T06F4.2B	3299	2776
T06F4.3	381	259
T06F4.5	221	48
T06G6.1	1023	816
T06G6.12	405	180
T06G6.2	1020	819
T06G6.3A	1739	371
T06G6.3B	1655	287
T06G6.4	1084	207
T06G6.5A	749	490
T06G6.6A	804	306
T06G6.6B	776	278
T06G6.7	1110	695
T06G6.9	836	90

T06H11.12	149	74
T06H11.13	185	66
T06H11.15	211	55
T06H11.16	241	131
T06H11.1A	2333	688
T06H11.1B	2199	554
T06H11.4	1421	705
T06H11.5	468	70
T06H11.7	403	262
T07A5.1	1156	575
T07A5.2	1233	292
T07A5.3	1724	239
T07A5.4	645	347
T07A5.6A	658	124
T07A5.6B	670	124
T07A5.6C	656	124
T07A5.7	1263	329
T07A9.10	1908	1580
T07A9.11.1	468	244
T07A9.11.2	445	244
T07A9.13B	560	8
T07A9.14	963	385
T07A9.15	327	103
T07A9.1A	591	8
T07A9.1B	718	8
T07A9.2	1519	669
T07A9.3	1578	919
T07A9.5A	1567	1050
T07A9.5B	1896	1543
T07A9.5C	1304	787
T07A9.5D	1633	1280
T07A9.6	3353	1898
T07A9.7	1982	56
T07A9.8	1211	629
T07A9.9A.1	2277	656
T07A9.9A.2	2261	656
T07A9.9A.3	2336	715
T07A9.9B.1	2119	656
T07A9.9B.2	2178	715
T07A9.9C	782	1
T07C12.10	267	111
T07C12.11	990	801
T07C12.12	2023	247
T07C12.14	853	493

T07C12.15	532	25
T07C12.1	975	779
T07C12.6	1083	818
T07C12.7	664	103
T07C12.8A	1412	580
T07C12.8B	1877	580
T07C12.9	1135	14
T07C4.10	3170	2624
T07C4.11	1545	1063
T07C4.1.1	1668	1387
T07C4.11A	1179	1100
T07C4.11B	1110	404
T07C4.1.2	1715	1434
T07C4.12	528	193
T07C4.2	1096	474
T07C4.3A.1	2381	647
T07C4.3A.2	2379	647
T07C4.3B.1	2348	614
T07C4.3B.2	2346	614
T07C4.4	502	193
T07C4.5	611	91
T07C4.6	967	276
T07C4.7.1	741	7
T07C4.7.2	751	17
T07C4.8	1292	631
T07C4.9A	1984	102
T07C4.9B.1	1929	47
T07C4.9B.2	1939	57
T07C5.1B	763	261
T07C5.1C	1797	261
T07C5.2	1039	17
T07C5.3A	1321	12
T07C5.3B	1190	12
T07C5.5	1177	729
T07D10.1	960	553
T07D10.2	1140	857
T07D10.3	1204	910
T07D10.6	455	129
T07D1.11	150	69
T07D1.1A	1785	767
T07D1.1B	2109	619
T07D1.1C	1737	247
T07D1.2.1	1699	791
T07D1.2.2	1595	687

T07D1.3	620	254
T07D1.4	1832	127
T07D1.5	633	222
T07D1.8	133	7
T07D3.1	1058	177
T07D3.2	759	535
T07D3.3	855	184
T07D3.4	1402	1116
T07D3.5	792	319
T07D3.6	1674	682
T07D3.7A	3247	2684
T07D3.7B	3156	2593
T07D3.9A.1	1485	1144
T07D3.9A.2	1531	1190
T07D3.9B.1	1538	560
T07D3.9B.2	1574	596
T07D4.1	1235	533
T07D4.2A	1392	691
T07D4.2B	1592	891
T07D4.2C.1	1445	744
T07D4.2C.2	1473	772
T07D4.3	4030	87
T07D4.4A	3446	2489
T07D4.4B	2301	226
T07D4.4C	2219	170
T07D4.4D	2201	126
T07D4.4E.1	1873	916
T07D4.4E.2	1934	977
T07D4.5	497	153
T07D4.6	178	77
T07E3.2	389	202
T07E3.3	1027	292
T07E3.4A	1507	234
T07E3.4B	1556	283
T07E3.5	1419	855
T07E3.6A	1151	316
T07E3.6B.1	804	316
T07E3.6B.2	1145	316
T07E3.6B.3	947	316
T07F10.10	131	60
T07F10.11	189	61
T07F10.1A	3337	1348
T07F10.1B	3238	1249
T07F10.3	1388	189

T07F10.4A	1592	860
T07F10.4B	1017	906
T07F10.6	725	423
T07F12.1	852	389
T07F12.2	1206	295
T07F12.3	1630	927
T07F12.4	1083	681
T07F8.2	1239	749
T07F8.3A	3259	604
T07F8.3B	2006	604
T07F8.4	1268	205
T07G12.11	1877	1491
T07G12.12A	1245	363
T07G12.1A	1517	1111
T07G12.1B	935	529
T07G12.1C	822	416
T07G12.2	1705	224
T07G12.3	1891	440
T07G12.5A	1858	1088
T07G12.5B	705	82
T07G12.6A	1942	803
T07G12.6B	1951	803
T07G12.6C	805	633
T07G12.6D	796	633
T07H3.10	564	448
T07H3.1	2196	1771
T07H3.2	943	47
T07H3.3	1446	60
T07H3.4	1266	140
T07H3.5	1254	162
T07H3.6	1078	510
T07H3.8	292	52
T07H6.1A	2275	763
T07H6.1B.1	1011	447
T07H6.1B.2	960	396
T07H6.2	1533	979
T07H6.3A	1190	126
T07H6.3B.1	1004	209
T07H6.4	2246	1606
T07H6.5	2161	533
T07H6.7	203	77
T07H8.10	164	23
T07H8.3	927	149
T07H8.4A.1	6147	2733

T07H8.4A.2	6101	2687
T07H8.4B	5336	2721
T07H8.4C	3557	2721
T07H8.4D.1	6111	2697
T07H8.4D.2	6065	2651
T07H8.4E	5935	2521
T07H8.4F.1	6015	2601
T07H8.4F.2	6051	2637
T07H8.4G	4885	1471
T07H8.4H.1	6144	2730
T07H8.4H.2	6098	2684
T07H8.4I	3326	985
T07H8.4J.1	821	470
T07H8.4J.2	775	424
T07H8.5	1515	1341
T07H8.6	2734	1719
T07H8.7	1026	220
T08A11.1	6134	2656
T08A11.2	4407	3837
T08A9.11A	634	156
T08A9.11B	658	261
T08A9.13	370	95
T08A9.1	4422	3899
T08A9.2	531	142
T08A9.3	994	596
T08A9.7	429	119
T08A9.9.1	374	125
T08A9.9.2	404	155
T08B1.1	2142	1383
T08B1.2C	1326	793
T08B1.3	1379	1160
T08B1.4A	584	212
T08B1.4B	1117	214
T08B1.5	951	97
T08B1.6	2087	1066
T08B2.10	467	134
T08B2.11	1533	1336
T08B2.13	129	58
T08B2.14	221	49
T08B2.15.1	795	148
T08B2.15.2	615	148
T08B2.2	966	667
T08B2.3	540	98
T08B2.5A	2851	448

T08B2.5B	2856	453
T08B2.5C	3045	642
T08B2.5D	494	13
T08B2.5E	598	156
T08B2.5F	2828	425
T08B2.5G	2413	402
T08B2.7A	2648	99
T08B2.7B	2587	25
T08B2.7C	2613	99
T08B2.8	576	69
T08B2.9A	1821	1160
T08B2.9B.1	1643	982
T08B2.9B.2	1810	1149
T08B6.1	474	38
T08B6.3	1017	886
T08B6.4	2024	1721
T08B6.6	1064	696
T08B6.7	1041	194
T08B6.9	1659	127
T08D10.1	1727	691
T08D10.2	2449	1689
T08D10.3	611	463
T08D10.4	918	505
T08D10.5	634	434
T08D2.11	222	52
T08D2.1	504	90
T08D2.4	290	184
T08D2.6	210	53
T08D2.7	1410	1006
T08D2.8	1167	497
T08E11.4	2297	1293
T08E11.5	1596	1409
T08E11.6	1081	68
T08E11.7	951	34
T08E11.8	1605	605
T08G11.1A	9867	393
T08G11.1B	9786	393
T08G11.2	960	34
T08G11.3	2142	1183
T08G11.4A.1	1822	822
T08G11.4A.2	1890	890
T08G11.4B.1	1663	663
T08G11.4B.2	1890	890
T08G11.4B.3	1890	890

T08G11.5.1	1613	4
T08G11.5.2	1627	730
T08G2.2	1197	436
T08G2.3.1	1387	837
T08G2.3.2	1413	863
T08G3.10	1068	394
T08G3.1	1023	714
T08G3.11	594	304
T08G3.13	621	115
T08G3.2	1032	520
T08G3.3	990	263
T08G3.5	1026	247
T08G3.6	915	208
T08G3.7	2853	823
T08G3.8	942	612
T08G5.1	1160	936
T08G5.12	291	146
T08G5.15	727	533
T08G5.2	549	171
T08G5.3A	720	119
T08G5.5A	3053	766
T08G5.5B	3062	766
T08G5.5C	3044	766
T08H10.1	1153	470
T08H10.4	611	325
T08H4.1A	2909	1610
T08H4.1B	3423	2124
T08H4.1C	3832	2533
T08H4.3	1418	248
T09A12.1	1152	135
T09A12.2B	657	495
T09A12.3	2782	1220
T09A12.4A	2275	991
T09A12.4B	2131	847
T09A12.4C	2629	238
T09A12.4D	2535	144
T09A12.4E	2056	772
T09A12.4F	2623	238
T09A12.4G	2529	144
T09A12.4H	2281	997
T09A12.4I	2131	847
T09A12.4J	2056	772
T09A12.5	684	117
T09A12.7	3284	3111

T09A12.8	147	1
T09A5.10.1	2604	1767
T09A5.10.2	2670	1833
T09A5.11.1	1591	584
T09A5.11.2	1661	19
T09A5.12.1	2560	1660
T09A5.12.2	2743	1660
T09A5.15	462	120
T09A5.16	184	67
T09A5.1A	795	268
T09A5.1B	484	268
T09A5.2A	2058	1071
T09A5.2B	486	366
T09A5.2C	515	31
T09A5.3	1692	1265
T09A5.4	894	402
T09A5.5	616	145
T09A5.6.1	625	34
T09A5.6.2	660	69
T09A5.7	492	45
T09A5.8	1413	1028
T09A5.9	1075	42
T09B4.10.1	1133	78
T09B4.10.2	1157	102
T09B4.1.1	2355	449
T09B4.1.2	2263	449
T09B4.2.1	1081	795
T09B4.2.2	1074	788
T09B4.3B	746	519
T09B4.4	539	295
T09B4.5A	1656	25
T09B4.5B	840	21
T09B4.6	480	33
T09B4.7	1115	717
T09B4.8	1465	688
T09B4.9	1537	513
T09B9.10	142	63
T09B9.1	1615	1150
T09B9.2	1902	376
T09B9.3	1075	180
T09B9.4	2046	1233
T09B9.5	1115	923
T09D3.1	1026	114
T09D3.2	1008	415

T09D3.3	1779	1163
T09D3.4	1311	65
T09D3.5	1101	216
T09D3.6	1014	828
T09D3.7	1064	250
T09D3.8	573	224
T09D3.9	398	210
T09E11.10	1017	745
T09E11.12	972	131
T09E11.1	852	150
T09E11.2	1152	363
T09E11.3	918	316
T09E11.4	1980	472
T09E11.5	1953	1111
T09E11.6	1485	248
T09E11.7	1992	1160
T09E11.8	1632	1068
T09E11.9	1473	563
T09E8.1A	3021	1361
T09E8.1B	2736	1076
T09E8.1C	3301	1641
T09E8.1D	2341	681
T09E8.1E	2152	492
T09E8.1F	2702	1042
T09E8.1G	2403	743
T09E8.2	3096	77
T09E8.3	598	352
T09E8.4	1086	885
T09E8.5A	1035	865
T09E8.5B	953	783
T09F3.1	1457	352
T09F3.2	1887	914
T09F3.3.1	1120	940
T09F3.3.2	1135	955
T09F3.4	750	65
T09F3.5	1688	117
T09F3.6	211	71
T09F5.10	1139	157
T09F5.1	1106	142
T09F5.11	1343	1032
T09F5.16	936	632
T09F5.20A	217	71
T09F5.20B	383	220
T09F5.3	1002	455

T09F5.8	1011	680
T09H2.1	1647	1101
T10A3.1A	4935	4113
T10A3.1B	4838	4065
T10A3.4	223	71
T10B10.11	262	37
T10B10.12	330	79
T10B10.15	134	45
T10B10.2	1419	815
T10B10.3	2807	459
T10B10.4A	1356	341
T10B10.4B	827	422
T10B10.5	1375	654
T10B10.6	717	301
T10B10.7	2524	1488
T10B10.8	1415	419
T10B10.9	392	108
T10B11.1	614	178
T10B11.2	1781	643
T10B11.3	1290	21
T10B11.4	1104	197
T10B11.5	912	626
T10B11.6.1	1185	208
T10B11.6.2	1182	208
T10B11.7A	1758	406
T10B11.7B	1647	295
T10B11.8A	1752	683
T10B11.8B	1736	667
T10B5.10	1276	529
T10B5.2	1761	1395
T10B5.3	1185	640
T10B5.4	782	577
T10B5.5A	1967	583
T10B5.5B	1740	583
T10B5.6	1245	535
T10B5.7	1012	464
T10B5.8	1492	174
T10B9.10	1620	119
T10B9.13	144	4
T10B9.2	1667	150
T10B9.3	1656	1141
T10B9.4	1530	1233
T10B9.5	1660	1247
T10B9.7	1593	179

T10B9.8	1676	1176
T10B9.9	485	113
T10C6.10A	1244	962
T10C6.1	1068	357
T10C6.14	312	119
T10C6.2	1110	924
T10C6.3	960	782
T10C6.4	996	61
T10C6.5	798	143
T10C6.6A	1604	36
T10C6.6B.1	1593	25
T10C6.6B.2	1541	545
T10C6.6B.3	1603	607
T10C6.6C	1584	16
T10C6.6D.1	1620	638
T10C6.6D.2	1568	586
T10C6.6D.3	1630	648
T10C6.6E	1611	629
T10C6.6F	1631	649
T10C6.7	954	89
T10C6.8	1153	670
T10D4.10	978	234
T10D4.1	1134	1049
T10D4.11	885	90
T10D4.12	966	723
T10D4.13	367	144
T10D4.14	360	191
T10D4.15	609	83
T10D4.5	1047	324
T10D4.6A	2486	491
T10D4.6B	2429	711
T10D4.7	545	43
T10D4.8	1008	767
T10D4.9	978	443
T10E10.10	272	24
T10E10.11	137	17
T10E10.12	189	48
T10E10.2.1	1030	209
T10E10.3	1209	318
T10E10.4	3005	480
T10E10.5	968	49
T10E10.7	924	329
T10E10.8	448	327
T10E9.1	1347	634

T10E9.2	2319	857
T10E9.3	1959	74
T10E9.4.1	2015	1527
T10E9.4.2	2096	1608
T10E9.5	789	641
T10E9.6	489	93
T10E9.7A	1512	1000
T10E9.7B	920	408
T10E9.8	934	533
T10E9.9	1168	725
T10F2.1A	2379	1192
T10F2.1B	2292	1105
T10F2.2	1133	229
T10F2.3	2772	307
T10F2.4	1923	857
T10F2.5	455	104
T10G3.1	1260	176
T10G3.2	1086	782
T10G3.3	1001	6
T10G3.4A	981	346
T10G3.4B	972	346
T10G3.5A	3920	173
T10G3.5B	3914	173
T10G3.6A	463	204
T10G3.6B	388	130
T10G3.8	654	190
T10H10.1	7082	1430
T10H10.2	1952	538
T10H10.3	1329	741
T10H4.10	1515	1342
T10H4.11	1573	1031
T10H4.12	1345	1048
T10H4.2	1092	259
T10H4.3	1053	797
T10H4.4	1653	881
T10H4.5	1170	536
T10H4.6	1250	1050
T10H4.8	1224	536
T10H4.9	973	582
T10H9.1	1074	810
T10H9.2	4504	3024
T10H9.3	1361	80
T10H9.4	818	119
T10H9.5A	1870	1634

T10H9.5B	1954	1718
T10H9.5C	2310	1133
T10H9.6A	950	270
T10H9.6B	972	292
T10H9.8	393	76
T11A5.10	150	57
T11A5.2	990	427
T11A5.3	993	503
T11A5.5	970	515
T11A5.6A	2395	1986
T11A5.6B	344	191
T11A5.6C	2089	1680
T11A5.7A	1032	57
T11A5.7B	1031	56
T11B7.1	1571	968
T11B7.2A	492	2
T11B7.2B	492	2
T11B7.3A	986	805
T11B7.3B	909	715
T11B7.4A	2561	1236
T11B7.4B	2409	739
T11B7.4C	2782	521
T11B7.4D	4746	739
T11B7.4E	2526	739
T11B7.5	660	254
T11F1.1	1149	891
T11F1.2	1446	824
T11F1.5	1493	1108
T11F1.6	1302	518
T11F1.7A	1583	1298
T11F1.7B	852	567
T11F1.8	1419	496
T11F1.9	1353	1123
T11F8.12	402	191
T11F8.1	894	632
T11F8.3A.1	2899	1847
T11F8.3A.2	2895	1847
T11F8.3B.1	2757	1705
T11F8.3B.2	2753	1705
T11F8.4	1712	388
T11F9.10	993	342
T11F9.11	1084	716
T11F9.12	2474	1625
T11F9.18	1211	880

T11F9.1A	1254	1062
T11F9.1B	1287	1118
T11F9.21A	483	259
T11F9.22	231	70
T11F9.23	178	39
T11F9.2A	1640	71
T11F9.2B	1737	270
T11F9.3	1203	495
T11F9.4A	1765	411
T11F9.4B.1	1684	330
T11F9.4B.2	1784	430
T11F9.5	1155	841
T11F9.6	1209	148
T11F9.7	750	531
T11G6.1A.1	1795	578
T11G6.1A.2	1807	578
T11G6.1B.1	1779	562
T11G6.1B.2	1791	562
T11G6.2A	1844	338
T11G6.2B.1	1769	263
T11G6.2B.2	1890	384
T11G6.3	1571	869
T11G6.4	1719	1266
T11G6.5A	4519	2385
T11G6.5B.1	4406	2272
T11G6.5B.2	4481	2347
T11G6.7	573	353
T11G6.8	1422	1063
T12A2.10	1011	779
T12A2.1	1367	317
T12A2.11	972	135
T12A2.12	951	516
T12A2.13	936	541
T12A2.15A	2351	60
T12A2.15B	1102	298
T12A2.16A	766	191
T12A2.16B	796	393
T12A2.2.1	2640	657
T12A2.2.2	2523	657
T12A2.2.3	2967	984
T12A2.3	776	145
T12A2.5	3073	1470
T12A2.6	2070	757
T12A2.7.1	884	36

T12A2.7.2	1095	247
T12A2.8.1	1670	534
T12A2.8.2	1746	610
T12A2.9	951	784
T12A7.10	300	69
T12A7.1.1	1945	754
T12A7.12	136	3
T12A7.1.2	2011	754
T12A7.2A.1	1463	850
T12A7.2A.2	1543	930
T12A7.2B.1	1469	856
T12A7.2B.2	1549	936
T12A7.2C.1	1457	844
T12A7.2C.2	1537	924
T12A7.3	692	451
T12A7.4A	1332	609
T12A7.4B	583	457
T12A7.4C	1129	609
T12A7.4D	1138	609
T12A7.5	3364	1981
T12A7.6	1267	986
T12A7.7	708	128
T12A7.9	552	216
T12B3.1	1341	238
T12B3.2	1514	1000
T12B3.4A	1259	13
T12B3.4B.1	768	364
T12B3.4B.2	1163	391
T12B3.7	275	4
T12B5.13	753	180
T12B5.14	384	59
T12C9.1	1274	232
T12C9.3	5094	2493
T12C9.5A	1351	697
T12C9.5B	986	332
T12C9.5C	1133	479
T12C9.6	1257	794
T12C9.7A	1424	1100
T12C9.7B	1411	1100
T12C9.7C	1010	721
T12D8.10	332	31
T12D8.1	7939	1268
T12D8.2	1002	77
T12D8.3	1419	596

T12D8.4	1499	234
T12D8.5	473	36
T12D8.6.1	646	306
T12D8.6.2	664	327
T12D8.7	599	382
T12D8.8.1	1434	449
T12D8.8.2	1507	522
T12D8.9A	3939	356
T12D8.9B	3976	393
T12E12.1	2006	11
T12E12.2	2993	2086
T12E12.3	2844	2162
T12E12.44	223	73
T12E12.4A.1	2442	1698
T12E12.4A.2	2202	1698
T12E12.4B.1	2463	1719
T12E12.4B.2	2256	1719
T12E12.6	2139	785
T12F5.1	884	553
T12F5.4	4661	2722
T12F5.5A	3193	2259
T12F5.5B	2735	1848
T12G3.1A.1	2413	118
T12G3.1A.2	2443	148
T12G3.1B.1	2443	148
T12G3.1B.2	2377	82
T12G3.2A.1	3120	125
T12G3.2A.2	3105	125
T12G3.2A.3	3209	214
T12G3.2B.1	3072	125
T12G3.2B.2	3161	214
T12G3.2C.1	3004	125
T12G3.2C.2	3093	214
T12G3.2D	3134	26
T12G3.2E	3161	214
T12G3.4	1428	195
T12G3.5.1	731	65
T12G3.5.2	741	75
T12G3.6A	739	292
T12G3.6B	862	415
T12G3.7	1277	841
T12G3.8A	1670	653
T12G3.8B	1669	652
T13A10.10A	1734	547

T13A10.10B	1598	564
T13A10.11A.1	1343	72
T13A10.11A.2	1303	32
T13A10.11B	1361	1168
T13A10.12	1029	490
T13A10.13	1046	468
T13A10.14	939	486
T13A10.2	486	177
T13A10.5A	1226	110
T13A10.5B	976	110
T13A10.63	149	34
T13A10.6	951	471
T13A10.7	972	690
T13B5.1	2155	647
T13B5.3	1363	934
T13B5.4	1060	215
T13B5.5	867	511
T13B5.7	848	593
T13B5.8A	737	155
T13B5.8B	773	280
T13B5.9	1232	798
T13C2.2	1640	799
T13C2.3A	1338	627
T13C2.3B	1598	887
T13C2.4	635	54
T13C2.6A	3350	2443
T13C2.6B	3356	2449
T13C2.7	995	484
T13C5.10	525	290
T13C5.1A	1994	535
T13C5.1B	1888	429
T13C5.2	798	303
T13C5.3	741	173
T13C5.4	678	241
T13C5.5	1052	140
T13C5.6	658	485
T13C5.8.1	582	126
T13C5.8.2	652	196
T13C5.9	696	90
T13F2.1A.1	1545	1146
T13F2.1A.2	1544	1145
T13F2.1B.1	1299	900
T13F2.1B.2	1544	1145
T13F2.1C.1	706	64

T13F2.1C.2	775	381
T13F2.1C.3	615	221
T13F2.2	532	4
T13F2.3A	3379	759
T13F2.3B	3385	765
T13F2.4	864	259
T13F2.5	1115	415
T13F2.6	2339	849
T13F2.7	2210	142
T13F2.8A	840	221
T13F2.8B	829	211
T13F2.8C	941	322
T13F3.10	356	51
T13F3.1	1041	736
T13F3.2A	1236	237
T13F3.2B	909	649
T13F3.3	1716	841
T13F3.4	456	368
T13F3.5	1002	39
T13F3.6	637	56
T13F3.7	1053	627
T13F3.8	779	107
T13F3.9	643	30
T13G4.1	492	39
T13G4.2	702	452
T13G4.3	4353	3628
T13G4.4.1	1130	232
T13G4.4.2	1006	108
T13G4.4.3	1072	174
T13G4.5	768	481
T13G4.7	666	114
T13H10.11	266	176
T13H10.1	1697	1107
T13H10.12	141	17
T13H10.13	150	34
T13H10.14	226	132
T13H10.2	1444	470
T13H2.4A	5222	968
T13H2.4B	1950	282
T13H2.5A	7667	5784
T13H2.5B	3481	1598
T13H5.1A	3116	1530
T13H5.1B	2863	1277
T13H5.1C	3173	1530

T13H5.1D	3113	1527
T13H5.1E	2696	1110
T13H5.1F	2963	1377
T13H5.1G.1	3390	1804
T13H5.1G.2	3325	1739
T13H5.1H	2721	1135
T13H5.1I	1166	165
T13H5.2A	1850	378
T13H5.2B	1592	120
T13H5.3	1934	12
T13H5.4	1633	1201
T13H5.5	839	40
T13H5.6	1588	329
T13H5.7	1108	602
T13H5.8	1919	544
T14A8.1	1564	638
T14A8.2A	700	145
T14A8.2B	685	130
T14A8.2C	743	173
T14B1.1.1	2424	214
T14B1.1.2	2611	127
T14B1.1.3	2512	26
T14B1.2	1220	572
T14B4.1	3803	286
T14B4.15	222	14
T14B4.17	282	49
T14B4.18	282	138
T14B4.2	493	274
T14B4.3	1057	757
T14B4.4A.1	871	244
T14B4.4A.2	897	270
T14B4.4B.1	722	95
T14B4.4B.2	850	223
T14B4.5	662	355
T14B4.6	1328	311
T14B4.7A	1592	420
T14B4.7B.1	1640	1165
T14B4.7B.2	1684	1209
T14B4.8.1	1047	469
T14B4.8.2	888	560
T14B4.9	1469	818
T14C1.1	1453	780
T14C1.3	1164	135
T14D7.1	1743	713

T14D7.2	2406	1704
T14D7.3	390	11
T14D7.4	223	35
T14E8.1A	3684	147
T14E8.1B.1	3637	147
T14E8.1B.2	3489	147
T14E8.1C	3603	147
T14E8.2	738	130
T14E8.3A	1947	1493
T14E8.3B	1953	1499
T14E8.3C	1919	1465
T14E8.3D	755	423
T14E8.4	1496	1108
T14E8.6	211	43
T14E8.7	148	20
T14F9.10	359	131
T14F9.1.1	1766	140
T14F9.11	291	66
T14F9.1.2	1727	140
T14F9.18	220	39
T14F9.19	348	177
T14F9.20	217	63
T14F9.21	143	63
T14F9.2	1424	448
T14F9.22	186	40
T14F9.3	1779	81
T14F9.4A	2166	1161
T14F9.4B	1905	963
T14F9.5	530	89
T14F9.7	140	48
T14F9.9	206	68
T14G10.1	2108	497
T14G10.2A.1	4702	4038
T14G10.2A.2	4572	4038
T14G10.2B.1	4092	343
T14G10.2B.2	4561	4175
T14G10.2C.1	795	131
T14G10.2C.2	406	152
T14G10.2D.1	4389	3725
T14G10.2D.2	4259	3725
T14G10.2E.1	4196	3532
T14G10.2E.2	4066	3532
T14G10.2F	3712	3114
T14G10.2G	3586	2988

T14G10.3	987	252
T14G10.4	534	316
T14G10.5A	2832	696
T14G10.5B	2942	806
T14G10.5C	2948	806
T14G10.6	1248	875
T14G10.7	1823	431
T14G10.8.1	689	100
T14G10.8.2	692	100
T14G11.1	1210	73
T14G11.3	2369	104
T14G11.4	132	16
T14G12.10	268	50
T14G12.11	707	563
T14G12.12	630	185
T14G12.2	943	280
T14G12.3	789	161
T14G12.4A	1245	251
T14G12.4B.1	1189	428
T14G12.4B.2	1168	173
T14G12.6	546	229
T14G8.1	5570	1352
T14G8.2	1044	820
T14G8.3A	3320	146
T14G8.3B	3316	142
T14G8.4	1297	280
T14G8.5	139	37
T15B12.1A	1229	252
T15B12.1B	1826	311
T15B12.2	1283	317
T15B7.10	1393	211
T15B7.11	1068	481
T15B7.1	1439	195
T15B7.12	1089	595
T15B7.13	1065	455
T15B7.14	1953	1818
T15B7.15	1214	97
T15B7.16	1495	883
T15B7.17	705	238
T15B7.18	203	50
T15B7.2.1	757	260
T15B7.2.2	790	293
T15B7.3	1016	762
T15B7.4	1043	767

T15B7.5	1000	752
T15B7.8	2526	2050
T15D6.10	1568	381
T15D6.11	992	107
T15D6.12	1380	1162
T15D6.1	909	116
T15D6.3	1176	743
T15D6.4	1191	638
T15D6.5	1152	213
T15D6.6	1141	504
T15D6.7	915	140
T15D6.8	1051	126
T15D6.9	1224	156
T15H9.2	962	356
T15H9.3	858	477
T15H9.4	1296	677
T15H9.6	1864	1053
T15H9.7A	2228	320
T15H9.7B	1463	45
T15H9.8	281	162
T16A1.1A	2371	1717
T16A1.1B	1994	1717
T16A1.2	2361	2193
T16A1.3	651	340
T16A1.4	414	31
T16A1.7	1698	277
T16A1.8	1111	24
T16A9.2	1097	940
T16A9.3	1218	713
T16A9.4A.1	2850	2295
T16A9.4A.2	2878	2323
T16A9.4B.1	2874	2319
T16A9.4B.2	2902	2347
T16A9.6	148	42
T16D1.1	279	64
T16D1.2	1581	474
T16G1.10A	471	1
T16G1.10B	449	1
T16G1.11	842	444
T16G1.1	2264	224
T16G1.13	259	56
T16G1.15	140	2
T16G1.17	303	106
T16G12.10	534	17

T16G12.1	5781	4645
T16G12.3	582	305
T16G12.4	733	453
T16G12.5	3727	473
T16G12.6	3004	2188
T16G12.7	1047	200
T16G12.8	1270	250
T16G12.9A	1127	153
T16G12.9B	1122	153
T16G12.9C	1082	108
T16G1.2A	1224	855
T16G1.2B	618	249
T16G1.3	1170	34
T16G1.4	1374	1097
T16G1.5	1592	694
T16G1.6	1370	1057
T16G1.7	1439	1082
T16G1.8	1478	883
T16G1.9	3118	1561
T16H12.11.1	1130	559
T16H12.11.2	1156	585
T16H12.13	519	103
T16H12.1A	1050	9
T16H12.1B	879	299
T16H12.2	546	340
T16H12.3A	1287	393
T16H12.3B	1100	393
T16H12.4.1	1232	403
T16H12.4.2	1247	418
T16H12.5A	1728	667
T16H12.5B	1628	567
T16H12.6	1979	239
T16H12.8	1092	399
T16H12.9	936	142
T16H5.1A	1518	1156
T16H5.1B	1507	1145
T17A3.10	1059	526
T17A3.12	253	74
T17A3.1	3252	2762
T17A3.2	1063	59
T17A3.3	1224	921
T17A3.8	1970	901
T17E9.1A.1	3588	2768
T17E9.1A.2	3753	2933

T17E9.1B.1	1416	678
T17E9.1B.2	1581	843
T17E9.2A	1669	223
T17E9.2B	1672	226
T17E9.2C	1713	267
T17H7.1.1	2179	396
T17H7.1.2	2200	396
T17H7.4A.1	2520	111
T17H7.4A.2	2520	111
T17H7.4B.1	2340	111
T17H7.4B.2	2340	111
T17H7.4C.1	2649	111
T17H7.4C.2	2649	111
T17H7.4D.1	3438	2577
T17H7.4D.2	3299	2577
T17H7.4D.3	3308	2577
T17H7.4E	2464	1069
T17H7.4F.1	1868	473
T17H7.4F.2	1685	290
T17H7.4F.3	2045	650
T17H7.4F.4	1721	326
T17H7.4F.5	1883	488
T17H7.4G	1555	416
T17H7.4H	2248	853
T17H7.4I	2377	982
T17H7.4J	2604	195
T17H7.4K.1	2430	1291
T17H7.4K.2	2404	1265
T17H7.4L.1	1910	473
T17H7.4L.2	1727	290
T17H7.4L.3	2087	650
T17H7.4L.4	1925	488
T17H7.7	1709	799
T18D3.10	162	42
T18D3.1	1926	832
T18D3.14	356	47
T18D3.2	1374	739
T18D3.3	1305	227
T18D3.4	6327	200
T18D3.5	397	17
T18D3.6	977	647
T18D3.7A.1	1113	448
T18D3.7A.2	821	448
T18D3.7B.1	1071	406

T18D3.7B.2	779	406
T18D3.7C.1	699	34
T18D3.7C.2	407	34
T18D3.9	827	439
T18H9.10	191	77
T18H9.1	1776	38
T18H9.2A	2391	429
T18H9.2B	1775	333
T18H9.4	1044	585
T18H9.5A	1970	1438
T18H9.5B	1565	138
T18H9.6	1567	655
T18H9.7A	2856	1387
T18H9.7C	2115	646
T18H9.9	249	65
T19A5.10	144	63
T19A5.11	189	46
T19A5.1	4056	1901
T19A5.2A	2838	1085
T19A5.2B	2890	1523
T19A5.2C	3261	1520
T19A5.2D	2869	1135
T19A5.3A	2537	482
T19A5.3B	1731	484
T19A5.4	1345	698
T19A5.5	1536	1011
T19A5.8	262	40
T19A6.1A.1	1525	305
T19A6.1A.2	1684	464
T19A6.1B	1744	359
T19A6.1C	1669	449
T19A6.2A	2154	531
T19A6.2B.1	2153	530
T19A6.2B.2	2175	552
T19A6.2B.3	2037	414
T19A6.2C	2031	531
T19A6.3A	853	375
T19A6.3B	859	381
T19A6.4	1060	524
T19B10.10	912	77
T19B10.11	460	264
T19B10.1	1726	1278
T19B10.12	224	47
T19B10.13	178	42

T19B10.15	220	77
T19B10.17	185	9
T19B10.18	249	18
T19B10.2.1	1164	426
T19B10.2.2	1231	426
T19B10.3	2166	614
T19B10.4A	893	607
T19B10.4B	721	574
T19B10.4C	2038	1900
T19B10.5	2030	1634
T19B10.6.1	1271	160
T19B10.6.2	1346	235
T19B10.6.3	1283	172
T19B10.7.1	1887	276
T19B10.7.2	1917	306
T19B10.8	2514	113
T19B10.9	2124	1408
T19B4.1	3090	505
T19B4.2.1	4418	3291
T19B4.2.2	4844	3717
T19B4.3	658	399
T19B4.4	487	108
T19B4.5	1276	980
T19B4.7	4833	3673
T19C3.1	1506	957
T19C3.2	850	337
T19C3.3	430	184
T19C3.4	1222	289
T19C3.5	1626	1177
T19C3.6	933	138
T19C3.7	756	252
T19C3.8	1789	563
T19C3.9	474	301
T19C4.11	178	54
T19C4.1	1350	748
T19C4.12	178	54
T19C4.16	209	71
T19C4.17	194	53
T19C4.23	174	67
T19C4.2	942	783
T19C4.3	906	462
T19C4.4	915	797
T19C4.5A	1083	774
T19C4.5B	1268	959

T19C4.6A	1074	115
T19C4.6B	918	59
T19C4.7	352	54
T19C4.8	921	465
T19C4.9	894	198
T19C9.10A	603	150
T19C9.10B	540	87
T19C9.1	852	581
T19C9.2	1011	291
T19C9.4	1014	337
T19C9.5	639	151
T19C9.8	1118	885
T19D12.10	1516	1024
T19D12.1	5953	341
T19D12.3	540	307
T19D12.4A	3216	2601
T19D12.4B	3172	2557
T19D12.5	1110	549
T19D12.6	2598	47
T19D12.7.1	1477	699
T19D12.7.2	1342	564
T19D12.7.3	1320	542
T19D12.9	1495	403
T19D2.1	3099	1405
T19D2.2.1	1549	67
T19D2.2.2	1469	437
T19D2.3	458	88
T19D2.5	153	13
T19D2.7	211	24
T19D2.8	216	73
T19D2.9	186	71
T19D7.1	1245	193
T19D7.3	1121	275
T19D7.4	2028	156
T19D7.5	515	76
T19D7.6	662	65
T19D7.7	1491	854
T19E10.1A	3346	1136
T19E10.1B	3370	1136
T19E7.1	589	120
T19E7.23	147	57
T19E7.29	224	80
T19E7.2A	2690	223
T19E7.2B	1655	487

T19E7.2C.1	2422	51
T19E7.2C.2	2645	176
T19E7.2C.3	2496	125
T19E7.2C.4	2498	573
T19E7.2D	1601	433
T19E7.3A	1334	695
T19E7.3B	555	126
T19E7.5	996	245
T19E7.6.1	509	264
T19E7.6.2	531	286
T19F4.1A	1475	639
T19F4.1B	1552	1096
T19F4.5	150	73
T19F4.6	396	255
T19H12.10	1763	1488
T19H12.11	1611	425
T19H12.1A	1664	143
T19H12.1B	1659	145
T19H12.2	891	565
T19H12.4	1029	192
T19H12.5	1382	193
T19H12.6	1887	40
T19H12.7	1011	292
T19H12.8	1518	1104
T19H12.9	1674	394
T19H5.1	1509	126
T19H5.2	1077	423
T19H5.3	1228	467
T19H5.4A	1738	703
T19H5.4B.1	978	268
T19H5.4B.2	1437	727
T19H5.6	954	132
T20B12.1	2513	2099
T20B12.2.1	1379	146
T20B12.2.2	1395	162
T20B12.3	1604	861
T20B12.4	1161	230
T20B12.5	396	11
T20B12.6A	3331	1373
T20B12.6B	3504	1373
T20B12.7	944	587
T20B12.8	2234	1726
T20B12.9	1606	604
T20B3.1	1980	473

T20B3.12	1249	474
T20B3.13	1161	296
T20B3.14	262	31
T20B3.15	1080	584
T20B3.16	1096	679
T20B3.2.1	949	20
T20B3.2.2	965	36
T20B3.3	999	288
T20B3.4	1005	687
T20B3.7	957	492
T20B5.1.1	3372	2725
T20B5.1.2	3297	2650
T20B5.2	986	231
T20B5.3A	3104	1228
T20B5.3B	3158	1276
T20B5.4	251	65
T20B5.5	137	48
T20B6.1	909	496
T20B6.3	887	653
T20C4.1	1029	284
T20C7.2	486	55
T20D3.11A	5642	1851
T20D3.11B	5720	1851
T20D3.1	651	342
T20D3.2.1	782	348
T20D3.2.2	777	348
T20D3.3A.1	1326	936
T20D3.3A.2	1344	954
T20D3.3B	1245	855
T20D3.5	1193	709
T20D3.6A	596	11
T20D3.6B	468	134
T20D3.7A	1628	985
T20D3.7B	1572	929
T20D3.7C	1634	991
T20D3.7D	1478	835
T20D4.10	690	79
T20D4.12	628	88
T20D4.13	1109	573
T20D4.17	549	421
T20D4.19	420	52
T20D4.3	2016	1343
T20D4.5	1290	722
T20D4.6	1624	205

T20D4.7	562	119
T20F10.1	3048	402
T20F10.2A	1154	25
T20F10.2B	1032	450
T20F10.2C	674	95
T20F10.5	1395	893
T20F5.2	1023	337
T20F5.3.1	782	361
T20F5.3.2	780	359
T20F5.4	1450	289
T20F5.5	1022	158
T20F5.6	2817	1083
T20F5.7	1295	117
T20F5.8	541	284
T20F7.1	2462	1077
T20F7.3	843	165
T20F7.5	3458	14
T20F7.6	1616	832
T20F7.7	1549	885
T20G5.10	511	313
T20G5.11	1207	575
T20G5.12	651	370
T20G5.13	714	53
T20G5.14	689	151
T20G5.1	5396	4891
T20G5.2	1667	169
T20G5.4A	1595	394
T20G5.4B	503	200
T20G5.5	3340	271
T20G5.6.1	1538	249
T20G5.6.2	1668	379
T20G5.7	581	73
T20G5.8	477	42
T20G5.9	621	258
T20H12.1	489	361
T20H4.1	1625	1125
T20H4.2	756	399
T20H4.3A	1940	1170
T20H4.3B	1808	1170
T20H4.4	1697	1258
T20H4.5	936	160
T20H9.2	1050	186
T20H9.4	903	41
T20H9.6	2765	606

T21B10.13	137	66
T21B10.1	998	659
T21B10.2A.1	1493	1005
T21B10.2A.2	1472	1005
T21B10.2A.3	1503	1015
T21B10.2B.1	1201	714
T21B10.2B.2	1181	714
T21B10.2B.3	1211	724
T21B10.2C.1	1603	43
T21B10.2C.2	1582	43
T21B10.3	3722	984
T21B10.4	1543	1128
T21B10.5	1199	555
T21B10.6	1476	174
T21B10.7	1926	1346
T21B10.8	145	37
T21B10.9	145	16
T21B4.14	1050	517
T21B4.15	850	520
T21B4.17	1526	1009
T21B4.1	984	416
T21B4.2	1051	2
T21B4.3	546	106
T21B4.4A	1298	796
T21B4.4B	1292	796
T21B4.5	1026	310
T21B4.7	1001	488
T21B4.8	1021	482
T21B6.10	137	28
T21B6.11	137	37
T21B6.1.1	2392	1609
T21B6.12	133	22
T21B6.1.2	2481	1698
T21B6.2	1291	150
T21B6.3	2847	237
T21B6.5	948	717
T21B6.7	149	18
T21B6.8	205	17
T21B6.9	194	43
T21C12.10	149	26
T21C12.11	187	51
T21C12.1B	1917	942
T21C12.1C	1783	170
T21C12.1D	1594	170

T21C12.1E	1687	170
T21C12.1F	1662	1319
T21C12.1G	513	386
T21C12.1H	944	601
T21C12.1I	667	324
T21C12.1J	730	170
T21C12.1K	1633	170
T21C12.1L	1040	146
T21C12.1M	1113	376
T21C12.1N	308	4
T21C12.1O	992	649
T21C12.2	1384	641
T21C12.3	692	288
T21C12.4A	685	213
T21C12.4B	806	334
T21C12.8A	1088	115
T21C12.8B	608	166
T21C9.1	1262	34
T21C9.11	678	20
T21C9.12	1739	629
T21C9.13	1208	475
T21C9.15	146	17
T21C9.2A	3450	607
T21C9.2B	2902	60
T21C9.3A.1	1803	153
T21C9.3A.2	1823	153
T21C9.3B	1987	1436
T21C9.4	569	152
T21C9.5A	551	176
T21C9.5B	467	92
T21C9.6	3797	1758
T21C9.7	912	670
T21C9.8	645	216
T21C9.9	1467	25
T21D11.1	1183	690
T21D12.11	2130	637
T21D12.12	654	209
T21D12.14	397	226
T21D12.15	1882	1065
T21D12.2A	1070	759
T21D12.2B	634	444
T21D12.3	1062	673
T21D12.4	1262	523
T21D12.5	807	98

T21D12.7	1986	313
T21D12.9A.1	2804	2382
T21D12.9A.2	2836	2414
T21D12.9C.1	2238	861
T21D12.9C.2	2270	893
T21D9.1	1268	901
T21D9.2	363	142
T21D9.4	173	40
T21E12.3	1053	787
T21E12.4	13935	11372
T21E12.5	629	80
T21E3.3	14802	14226
T21E8.1A	3971	763
T21E8.1B.1	3898	690
T21E8.1B.2	3891	683
T21E8.1C	3906	698
T21E8.2	3792	718
T21E8.3	3909	1729
T21E8.4	441	173
T21E8.5	858	209
T21E8.6	441	72
T21E8.7	924	72
T21F2.1A	1804	778
T21F2.1B.1	1495	469
T21F2.1B.2	1585	559
T21F4.1A	1266	584
T21F4.1B	1392	584
T21G5.1	1814	250
T21G5.3	2560	1974
T21G5.5A	1496	150
T21G5.5B	1356	150
T21G5.5C	1426	440
T21G5.5D	1588	222
T21G5.6.1	600	371
T21G5.6.2	426	226
T21H3.11	2302	444
T21H3.1A.1	960	807
T21H3.1A.2	958	805
T21H3.1B	455	302
T21H3.2	2463	1735
T21H3.3	1358	430
T21H3.4	1512	575
T21H3.5	1265	134
T21H3.6	146	41

T21H8.1A.1	3272	1319
T21H8.1A.2	3343	1390
T21H8.1B.1	3398	1319
T21H8.1B.2	3469	1390
T21H8.2	1086	268
T21H8.3	1095	565
T21H8.4	1128	591
T21H8.5	544	316
T21H8.7	132	12
T22A3.12	596	26
T22A3.2A	435	144
T22A3.2B	441	141
T22A3.3A	1708	398
T22A3.3B.1	1343	33
T22A3.3B.2	1290	526
T22A3.3B.3	1276	512
T22A3.3B.4	1332	32
T22A3.3B.5	1286	522
T22A3.4A	1721	125
T22A3.4B	1734	125
T22A3.5A	2532	1281
T22A3.6	1515	255
T22A3.8	9451	1240
T22B11.1	1407	495
T22B11.2	1278	366
T22B11.3	1113	979
T22B11.4A	1958	1527
T22B11.4B	1935	582
T22B11.5A	3604	2432
T22B11.5B.1	3460	2288
T22B11.5B.2	3269	2097
T22B2.1	2893	772
T22B2.2	659	329
T22B2.3	1413	170
T22B2.4A	1277	347
T22B2.4B	521	299
T22B2.5	822	494
T22B2.8	248	21
T22B3.1	1390	396
T22B3.2A	3167	1193
T22B3.2B	3241	1267
T22B3.3	604	156
T22B7.13	281	45
T22B7.15	330	157

T22B7.1A	2088	204
T22B7.1B.1	1832	55
T22B7.1B.2	1915	59
T22B7.1C.1	2134	278
T22B7.1C.2	1915	59
T22B7.1D	1665	436
T22B7.3	939	450
T22B7.4	1883	531
T22B7.5	1050	546
T22B7.7	1417	607
T22B7.8	189	54
T22C1.10A	4087	3459
T22C1.10B	4085	3457
T22C1.11	1460	6
T22C1.1.1	1751	900
T22C1.1.2	1792	941
T22C1.12	419	244
T22C1.14	186	71
T22C1.15	486	147
T22C1.16	241	46
T22C1.2	556	23
T22C1.3	1350	219
T22C1.4	456	108
T22C1.6	1519	366
T22C1.7	3015	1989
T22C1.8	1993	1784
T22C1.9	716	65
T22C8.1	1069	221
T22C8.2	1612	167
T22C8.3	1116	466
T22C8.4	1059	148
T22C8.5	629	374
T22C8.6	1255	637
T22C8.7	1830	590
T22C8.8	905	266
T22D1.10	1526	1107
T22D1.11	1776	515
T22D1.1	1587	1094
T22D1.12A	1176	1062
T22D1.12B	1194	1080
T22D1.18	383	138
T22D1.20	224	41
T22D1.3A	1852	449
T22D1.3B	1618	970

T22D1.3C	1816	974
T22D1.3D	1654	445
T22D1.3E.1	1300	458
T22D1.3E.2	1597	755
T22D1.3E.3	1298	456
T22D1.3E.4	1842	1000
T22D1.3E.5	1821	420
T22D1.3E.6	1720	319
T22D1.3E.7	1801	402
T22D1.3E.8	1810	968
T22D1.4	1961	1020
T22D1.5	1351	46
T22D1.6	264	111
T22D1.8	1203	530
T22D1.9.1	3176	784
T22D1.9.2	3419	1027
T22D2.1	3351	2124
T22E5.12	199	28
T22E5.1A	290	95
T22E5.1B	209	17
T22E5.2	1616	1174
T22E5.3	1644	1521
T22E5.5.1	1472	544
T22E5.5.2	1604	676
T22E5.6	764	205
T22E5.7	222	31
T22E5.8	250	137
T22E7.1A	1255	22
T22E7.1B	1697	22
T22E7.2	1032	267
T22F3.10	1564	1235
T22F3.11A	1683	116
T22F3.11B	1164	116
T22F3.2A	1454	349
T22F3.2B	1428	349
T22F3.3A	3026	1031
T22F3.3B.1	2851	856
T22F3.3B.2	2927	932
T22F3.3B.3	3032	1037
T22F3.4	651	284
T22F3.5	993	281
T22F3.6	1000	288
T22F3.7	1499	553
T22F3.8	1493	1342

T22F7.1	1755	204
T22F7.3	3323	1777
T22F7.4	908	382
T22F7.5	1505	682
T22G5.1	978	814
T22G5.2	520	141
T22G5.4	1035	501
T22G5.5A.1	1930	1053
T22G5.5A.2	1967	1090
T22G5.5B	1947	1070
T22G5.6	599	223
T22G5.7	406	123
T22H2.1	1044	589
T22H2.3	1392	780
T22H2.5A	1236	639
T22H2.5B	1179	639
T22H2.5C	882	639
T22H2.6A	1188	645
T22H2.6B	1114	645
T22H6.1	686	318
T22H6.2A	2573	142
T22H6.2B	2564	127
T22H6.3	1315	760
T22H6.4	1029	734
T22H6.5	484	87
T22H6.6A	5413	1765
T22H6.6B	3120	304
T22H6.6C	1970	573
T22H6.7	646	67
T22H9.1	1448	888
T22H9.2A	2649	187
T22H9.2B	2160	187
T22H9.3	3168	2778
T22H9.4	1783	704
T23B12.11.1	531	31
T23B12.11.2	822	154
T23B12.1	835	367
T23B12.2	1011	763
T23B12.3.1	925	437
T23B12.3.2	994	65
T23B12.4	2822	1640
T23B12.5	763	454
T23B12.6	2154	1557
T23B12.7	1120	223

T23B12.8A.2	498	73
T23B3.1A	1897	600
T23B3.1B	1894	597
T23B3.2	697	156
T23B3.4	1266	226
T23B3.6	1338	516
T23B5.1A	2445	478
T23B5.1B	1930	522
T23B5.1C	1062	58
T23B5.3A	2847	1203
T23B5.3B	1679	1203
T23B5.3C.1	1158	549
T23B5.3C.2	1491	882
T23B5.3D	3024	1380
T23B5.4A	413	161
T23B5.4B	450	198
T23B5.6	249	85
T23B7.3A	369	84
T23B7.3B	590	107
T23C6.1	1684	509
T23C6.3	1879	738
T23C6.4	1285	79
T23C6.5	1296	925
T23D5.1	1053	694
T23D5.11	1050	668
T23D5.2	1111	652
T23D5.3	660	216
T23D5.6	978	479
T23D5.9	1065	522
T23D8.1	2387	975
T23D8.13	169	67
T23D8.2	1288	161
T23D8.3.1	1459	623
T23D8.3.2	1722	623
T23D8.4	3007	52
T23D8.5	451	14
T23D8.7	3144	1596
T23D8.8	1404	450
T23D8.9A	2803	228
T23D8.9B	907	228
T23E1.1	1717	214
T23E1.3A	696	337
T23E1.3B	259	70
T23E1.6	150	28

T23E7.2A	3374	404
T23E7.2B	3110	53
T23E7.2C	3065	404
T23E7.2D	795	228
T23E7.2E	3249	404
T23E7.2F	2638	404
T23E7.4A.1	573	28
T23E7.4A.2	548	28
T23E7.4B	768	28
T23E7.6	210	27
T23F11.1.1	1817	923
T23F11.11	602	160
T23F11.1.2	1868	974
T23F11.2	877	498
T23F11.3A.1	1390	968
T23F11.3A.2	1520	1098
T23F11.3B.1	1420	998
T23F11.3B.2	1550	1128
T23F11.4	1322	677
T23F11.5	1054	927
T23F11.6	656	460
T23F11.7	220	44
T23F1.3	1053	478
T23F1.4	1023	460
T23F1.5	3888	1748
T23F1.6	1053	17
T23F1.7A	2472	1825
T23F1.7B	2532	1885
T23F1.7C	2313	1666
T23F2.1.1	1767	102
T23F2.1.2	2134	201
T23F2.2A	5376	371
T23F2.2B	4677	371
T23F2.3	296	32
T23F2.4	228	61
T23F2.5	405	44
T23F4.1	786	261
T23F4.2	927	475
T23F4.3	1119	282
T23F4.4	1472	210
T23F6.1	519	343
T23F6.2	815	235
T23F6.3	937	27
T23F6.4.1	2745	1264

T23F6.4.2	2811	1330
T23F6.5	1888	43
T23G11.10	615	70
T23G11.11	238	60
T23G11.1	627	185
T23G11.2	1275	441
T23G11.3.1	2123	900
T23G11.3.2	2143	920
T23G11.3.3	2151	900
T23G11.4	805	71
T23G11.5A	1904	1234
T23G11.5B.1	1289	619
T23G11.5B.2	1513	843
T23G11.6A	2464	476
T23G11.6B	2279	476
T23G11.6C	735	119
T23G11.6D	215	44
T23G11.7A	1206	56
T23G11.7B	1194	487
T23G4.1	1671	638
T23G4.126	183	59
T23G4.127	236	127
T23G4.3	1631	601
T23G4.4	2070	1577
T23G4.5	576	217
T23G5.1.1	2516	1735
T23G5.1.2	2586	39
T23G5.2A.1	2512	785
T23G5.2A.2	2355	785
T23G5.2B	1009	546
T23G5.3	789	238
T23G5.5	2122	876
T23G5.6	1271	785
T23G7.1	2196	1435
T23G7.2A.1	1451	765
T23G7.2A.2	1501	815
T23G7.2B	1613	1037
T23G7.3	1190	352
T23G7.4	2825	2506
T23G7.5A.1	897	387
T23G7.5A.2	894	387
T23G7.5B	793	438
T23H2.1	5919	268
T23H2.2	1493	155

T23H2.3	3240	1020
T23H2.4	1459	1092
T23H2.5.1	696	427
T23H2.5.2	917	427
T23H2.6	147	38
T23H4.1A	1452	1281
T23H4.1B	1407	11
T23H4.1C	1374	1203
T23H4.2	1334	926
T23H4.3	1145	430
T24A11.1A	3939	15
T24A11.1B	3625	46
T24A11.2	996	581
T24A11.3	1597	996
T24A11.9	143	57
T24A6.10	849	590
T24A6.11	1088	381
T24A6.13	855	602
T24A6.14	1356	268
T24A6.15	420	310
T24A6.18	519	292
T24A6.19	521	362
T24A6.20	1040	594
T24A6.23	153	28
T24A6.3	468	306
T24A6.4	1037	808
T24A6.5	861	585
T24A6.6	1044	870
T24A6.7	770	411
T24A6.8	1220	851
T24B1.1	1938	1377
T24B8.10	222	11
T24B8.1A.1	443	25
T24B8.1A.2	443	26
T24B8.1A.3	465	48
T24B8.1B.1	446	26
T24B8.1B.2	360	140
T24B8.1B.3	466	51
T24B8.21	147	60
T24B8.2	1297	1070
T24B8.3A.1	888	108
T24B8.3A.2	837	108
T24B8.3B.1	810	76
T24B8.3B.2	861	76

T24B8.3C.1	839	109
T24B8.3C.2	620	109
T24B8.3C.3	813	77
T24B8.3C.4	238	78
T24B8.3C.5	529	12
T24B8.3C.6	838	109
T24B8.3C.7	619	109
T24B8.4A	3033	1615
T24B8.4B	1158	91
T24B8.4C	450	191
T24B8.5	363	56
T24B8.7A	8817	3758
T24B8.7B	8817	3749
T24B8.7C.1	8806	3747
T24B8.7C.2	8923	3864
T24B8.7D.1	8806	3738
T24B8.7D.2	8923	3855
T24B8.7E.1	3814	3514
T24B8.7E.2	3931	3631
T24B8.7F.1	3805	3510
T24B8.7F.2	3922	3627
T24B8.7G	3825	3525
T24B8.7H	3816	3521
T24B8.9	123	15
T24C12.1	1137	17
T24C12.2	1890	887
T24C12.3	2091	1126
T24C12.4	848	289
T24C2.1	2256	396
T24C2.2	752	280
T24C2.3	801	432
T24C2.4	987	68
T24C2.5	896	242
T24C4.1	1400	679
T24C4.2	1272	316
T24C4.3	468	158
T24C4.4	567	390
T24C4.5	1393	515
T24C4.6A	3254	2369
T24C4.6B	3146	2369
T24C4.7	2652	2373
T24C4.8	550	196
T24D11.1A	2545	2288
T24D11.1B	2658	2401

T24D11.1C	1401	1144
T24D11.1D	2358	2101
T24D11.1E	2667	2410
T24D11.1F	1191	934
T24D1.1A.1	2750	232
T24D1.1A.2	2808	601
T24D1.1B	3214	378
T24D1.2	1590	45
T24D1.3	1281	100
T24D1.4	1409	121
T24D1.5.1	1356	702
T24D1.5.2	1354	700
T24D1.6	143	28
T24D3.2.1	357	22
T24D3.2.2	579	67
T24D3.2.3	415	80
T24D5.1	915	291
T24D5.2	1835	598
T24D5.3	810	192
T24D5.4	270	57
T24D5.5	966	490
T24D5.6	342	59
T24D5.9	148	69
T24D8.1	1680	1233
T24D8.17	128	27
T24D8.18	1364	1120
T24D8.3	334	65
T24D8.4	505	62
T24D8.5	704	133
T24D8.6	192	47
T24E12.10	4161	67
T24E12.11	768	305
T24E12.12	290	160
T24E12.13	742	115
T24E12.1	931	32
T24E12.2	756	304
T24E12.3	867	138
T24E12.4	921	387
T24E12.5	2046	1479
T24E12.6A	512	418
T24E12.6B	996	74
T24E12.8	891	560
T24F1.1	1269	117
T24F1.2	2076	255

T24F1.3A	2002	96
T24F1.3B.1	1855	202
T24F1.3B.2	1880	227
T24F1.4	613	178
T24F1.5	493	96
T24F1.6A	3392	3012
T24F1.6B	3576	3196
T24F1.7	409	210
T24F1.8	150	60
T24F1.9	139	32
T24G10.2	1470	122
T24H10.1	1179	487
T24H10.3	984	582
T24H10.4	1243	1
T24H10.5	1266	928
T24H10.6.1	398	44
T24H10.6.2	516	162
T24H10.7A	1377	638
T24H10.7B	1304	565
T24H10.7C	702	200
T24H10.7D	883	378
T24H10.7E	855	353
T24H7.1	1360	444
T24H7.2	3005	1645
T24H7.3.1	716	41
T24H7.3.2	723	48
T24H7.4.1	663	259
T24H7.4.2	469	65
T24H7.5A	3695	1589
T24H7.5B	4469	1589
T24H7.5C.1	832	533
T24H7.5C.2	873	574
T24H7.8	359	160
T25B2.1	453	86
T25B2.2A	1839	1337
T25B2.2B	1781	1303
T25B2.2C	1798	1303
T25B2.3	632	177
T25B2.4	331	69
T25B6.2	2590	508
T25B6.3	453	39
T25B6.4	291	167
T25B6.5	563	159
T25B6.6	429	37

T25B6.7	3113	1829
T25B9.10A	1714	482
T25B9.10B	1373	141
T25B9.10C	1364	132
T25B9.1	1289	867
T25B9.11A	450	131
T25B9.11B	333	122
T25B9.12	512	61
T25B9.3A	927	190
T25B9.3B	881	265
T25B9.5	1626	364
T25B9.6	1875	126
T25B9.7.1	1686	1163
T25B9.7.2	1744	1221
T25B9.8	1596	1138
T25B9.9	1662	1129
T25C12.1A	1620	576
T25C12.1B	1729	685
T25C12.2	344	143
T25C12.3	6532	5693
T25C12.4	312	130
T25C12.7	355	180
T25C12.8	182	15
T25C12.9	238	78
T25C8.1	1308	256
T25C8.2.1	1343	475
T25C8.2.2	1344	476
T25D10.10	219	67
T25D10.1	1250	610
T25D10.2A	699	445
T25D10.2B	1110	623
T25D10.3	1238	859
T25D10.4	1004	516
T25D10.5	993	574
T25D10.6	218	32
T25D1.1	1839	1569
T25D1.2	1317	1000
T25D1.3	714	287
T25D3.2	1028	440
T25D3.3	1817	1256
T25D3.4	2303	1339
T25E12.10	1149	710
T25E12.13	978	116
T25E12.14	584	172

T25E12.16	362	154
T25E12.4A	3718	1198
T25E12.4B	672	481
T25E12.4C	3061	274
T25E12.4D	2989	469
T25E12.4E	3712	1198
T25E12.4F	3793	1198
T25E12.5	1043	84
T25E12.6	1090	554
T25E12.7	1236	259
T25E12.8	1092	686
T25E12.9	1225	242
T25E4.1	978	658
T25E4.2	1416	169
T25F10.1	360	124
T25F10.2.1	1718	807
T25F10.2.2	1638	727
T25F10.3.1	1714	1104
T25F10.3.2	1756	1146
T25F10.4	1207	893
T25F10.5	1710	657
T25F10.6A.1	1695	1401
T25F10.6A.2	1625	1401
T25F10.6B.1	1380	1086
T25F10.6B.2	1310	1086
T25G12.11	805	200
T25G12.13	939	294
T25G12.1	672	89
T25G12.2	787	102
T25G12.3	689	107
T25G12.4	1025	350
T25G12.5	1344	959
T25G12.6	2634	944
T25G12.7	1057	290
T25G3.1.1	555	129
T25G3.1.2	714	93
T25G3.2.1	4339	3586
T25G3.2.2	4159	3583
T25G3.3	1734	1104
T25G3.4	2505	165
T26A5.10	281	55
T26A5.11	520	265
T26A5.1	1888	1371
T26A5.2A	2880	2157

T26A5.2B	2346	1623
T26A5.3	1547	855
T26A5.4	1523	621
T26A5.5A	4056	3112
T26A5.5B	1911	1664
T26A5.6	1814	233
T26A5.7A	1291	563
T26A5.7B	1044	316
T26A5.8	1071	375
T26A5.9.1	537	19
T26A5.9.2	595	19
T26A5.9.3	617	41
T26A8.1.1	2580	35
T26A8.1.2	2438	35
T26A8.1.3	2662	117
T26A8.2	1409	427
T26A8.3	483	221
T26A8.4	2187	572
T26C11.1	876	211
T26C11.3	561	392
T26C11.4A	1951	735
T26C11.4B	1960	735
T26C11.5	1317	25
T26C11.6	2744	37
T26C11.7	1560	976
T26C11.8	756	268
T26C11.9	914	596
T26C12.1	2127	1600
T26C12.2	723	579
T26C12.3A	1104	142
T26C12.3B	782	426
T26C12.4	3346	891
T26C12.6	765	148
T26C5.1	737	198
T26C5.2	1995	295
T26C5.3A	2327	1729
T26C5.3B	2066	1468
T26C5.3C	2233	1635
T26C5.3D	2165	1567
T26C5.4	679	51
T26C5.5.1	511	160
T26C5.5.2	549	198
T26C5.6	1971	55
T26E3.10	301	48

T26E3.1	735	19
T26E3.2	1134	759
T26E3.3A.1	1412	769
T26E3.3A.2	1342	699
T26E3.3B	1328	685
T26E3.5	842	165
T26E3.7	546	212
T26E3.9	1008	639
T26E4.10	273	18
T26E4.1	1158	489
T26E4.12	963	121
T26E4.14	927	48
T26E4.15.1	1305	918
T26E4.15.2	1189	802
T26E4.16	1135	102
T26E4.18	138	49
T26E4.2	378	68
T26E4.3	1137	626
T26E4.4	1278	805
T26E4.7	1083	220
T26E4.8	948	29
T26E4.9	363	129
T26F2.3.1	1042	240
T26F2.3.2	1146	344
T26G10.1	1570	1177
T26G10.3	276	51
T26G10.4	1044	959
T26G10.5	397	208
T26H10.1A	2164	1262
T26H10.1B	1888	1208
T26H10.4	205	38
T26H2.2	1110	96
T26H2.3	1158	7
T26H2.4	1099	80
T26H2.5	707	249
T26H2.6A	1098	298
T26H2.6B	1313	513
T26H2.7	2082	332
T26H2.8	1269	372
T26H2.9A	1458	500
T26H2.9B	942	500
T26H5.11.1	129	13
T26H5.11.2	187	65
T26H5.13	469	191

T26H5.3	978	414
T26H5.4A	497	167
T26H5.8.1	1453	696
T26H5.8.2	1376	619
T26H5.8.3	1462	705
T26H5.8.4	1361	604
T26H5.9A	310	94
T26H5.9B	141	18
T26H8.5	925	756
T27A10.2	913	271
T27A10.3A	1266	353
T27A10.3B	1396	353
T27A10.5	327	47
T27A10.6.1	2800	826
T27A10.6.2	2907	933
T27A10.7	1302	126
T27A1.1	525	51
T27A1.2	1114	240
T27A1.3	852	107
T27A1.4	1371	216
T27A1.5A.1	1480	258
T27A1.5A.2	1488	266
T27A1.5B	1488	266
T27A1.6	1361	949
T27A1.7	1029	273
T27A3.1A	2146	1679
T27A3.1B	2074	1653
T27A3.1C	2051	1584
T27A3.1D	1979	1558
T27A3.1E	1599	1177
T27A3.2	2590	349
T27A3.3	434	40
T27A3.4	697	172
T27A3.5	1185	731
T27A3.6	1146	596
T27A3.7	1611	414
T27A3.8	332	39
T27A8.1	1609	688
T27A8.2	661	434
T27A8.3	549	406
T27A8.4	294	47
T27A8.5	1704	1173
T27A8.7	189	7
T27B1.1	5370	419

T27B1.2	2115	1017
T27B1.6	260	70
T27B2.1	960	378
T27B7.1	1429	340
T27B7.2	1431	263
T27B7.3	1352	158
T27B7.4A	1265	1012
T27B7.4B	1340	1087
T27B7.5B	1147	210
T27B7.6A	1302	789
T27B7.6B	1068	555
T27B7.7	1062	6
T27C10.1	1032	406
T27C10.2	966	350
T27C10.3	1020	661
T27C10.4	1095	761
T27C10.6	7392	1954
T27C10.7	332	174
T27C10.8	575	160
T27C4.1.1	1162	291
T27C4.1.2	1077	291
T27C4.2	2154	1347
T27C4.3	1014	890
T27C4.4A	3368	2213
T27C4.4B	3073	2213
T27C4.4C	2288	192
T27C4.4D	2630	2213
T27C5.12	930	289
T27C5.5	1080	126
T27C5.7	492	113
T27D1.1	1015	46
T27D12.1A.1	1741	531
T27D12.1A.2	1772	562
T27D12.1B	1861	651
T27D12.2A	3073	2214
T27D12.2B	3061	2073
T27D12.4A	1475	967
T27D12.4B	1373	865
T27D12.4C	1340	832
T27D12.6	409	92
T27D1.3	1241	783
T27E4.1	1056	88
T27E4.17	139	10
T27E4.2	476	102

T27E4.4	426	151
T27E4.5	656	272
T27E4.6	2387	996
T27E4.8	438	64
T27E7.1	821	159
T27E7.3	1209	957
T27E7.4	1053	626
T27E7.6	1339	374
T27E7.9	1029	589
T27E9.1A.1	1289	43
T27E9.1A.2	1270	24
T27E9.1B.1	1158	30
T27E9.1B.2	1152	24
T27E9.1C.1	1172	486
T27E9.1C.2	1165	479
T27E9.1D.10	1220	22
T27E9.1D.11	1228	83
T27E9.1D.1	1265	94
T27E9.1D.12	1278	22
T27E9.1D.13	1211	21
T27E9.1D.14	1258	109
T27E9.1D.15	1271	25
T27E9.1D.16	1225	83
T27E9.1D.17	1266	95
T27E9.1D.18	1256	15
T27E9.1D.19	1241	61
T27E9.1D.20	1269	30
T27E9.1D.2	1103	14
T27E9.1D.21	1268	23
T27E9.1D.22	1232	53
T27E9.1D.23	1222	83
T27E9.1D.24	1253	73
T27E9.1D.25	1267	22
T27E9.1D.26	1253	8
T27E9.1D.27	1267	118
T27E9.1D.28	1267	22
T27E9.1D.29	1223	77
T27E9.1D.30	1215	73
T27E9.1D.31	1273	151
T27E9.1D.3	1215	76
T27E9.1D.32	1316	25
T27E9.1D.33	1194	45
T27E9.1D.35	1226	83
T27E9.1D.36	1242	90

T27E9.1D.37	1220	41
T27E9.1D.38	1228	56
T27E9.1D.39	1261	22
T27E9.1D.40	1264	22
T27E9.1D.41	1265	19
T27E9.1D.4	1264	104
T27E9.1D.42	1239	75
T27E9.1D.43	1268	22
T27E9.1D.44	1267	22
T27E9.1D.45	1274	94
T27E9.1D.46	1231	82
T27E9.1D.47	1249	16
T27E9.1D.48	1268	119
T27E9.1D.5	1208	22
T27E9.1D.6	1263	99
T27E9.1D.7	1248	98
T27E9.1D.8	1232	83
T27E9.1D.9	1267	22
T27E9.2	517	223
T27E9.3	1108	194
T27E9.4A.1	1909	729
T27E9.4A.2	1812	632
T27E9.4B	1818	638
T27E9.5	1743	1414
T27E9.6	660	302
T27E9.7.1	2429	1357
T27E9.7.2	2285	1357
T27E9.8	945	230
T27E9.9	1423	140
T27F2.1	1743	1231
T27F2.2A	3419	205
T27F2.2B	3474	2046
T27F2.2C	3323	205
T27F2.2D	3278	205
T27F2.2E	3425	205
T27F2.2F	3416	205
T27F2.4	670	213
T27F2.5	143	16
T27F2.6	376	34
T27F6.10	511	85
T27F6.1	1471	983
T27F6.2	1304	129
T27F6.4	735	196
T27F6.5A.1	1482	312

T27F6.5A.2	1486	312
T27F6.5A.3	1548	378
T27F6.5B	376	121
T27F6.5C.1	742	213
T27F6.5C.2	746	213
T27F6.5D	424	295
T27F6.6	1475	339
T27F6.7	941	588
T27F6.8	1507	814
T27F7.10	215	69
T27F7.1.1	761	283
T27F7.1.2	840	362
T27F7.1.3	846	368
T27F7.2A	2378	1784
T27F7.2B.1	2170	1576
T27F7.2B.2	2100	1506
T27F7.2C	1850	769
T27F7.3	582	109
T27F7.4	1491	51
T28A11.10	1053	469
T28A11.11	681	90
T28A11.12	1017	185
T28A11.13	369	208
T28A11.15	1119	672
T28A11.20	1334	214
T28A11.21	1024	68
T28A11.22	513	345
T28A11.2A	1267	565
T28A11.4	273	4
T28A11.5	585	500
T28A11.6	559	284
T28A11.7	888	617
T28A11.9	1035	511
T28A8.1A	1182	289
T28A8.1B	1248	355
T28A8.1C	1311	85
T28A8.2	1062	702
T28A8.3.1	2099	1719
T28A8.3.2	2114	1734
T28A8.4	1603	1260
T28A8.5	899	560
T28A8.6	2031	830
T28A8.7	2337	1461
T28A8.8A	446	225

T28A8.8B	400	197
T28B11.10	284	163
T28B11.12	195	50
T28B11.13	144	23
T28B11.14	567	257
T28B11.16	364	165
T28B11.17	150	26
T28B11.18	351	21
T28B11.19	150	8
T28B11.1A.1	2674	1644
T28B11.1A.2	2757	1727
T28B11.1B.1	2755	1727
T28B11.1B.2	2549	1521
T28B11.20	279	1
T28B11.21	292	160
T28B11.2	143	44
T28B11.23	129	30
T28B11.24	144	5
T28B11.25	269	71
T28B11.4	284	142
T28B11.5	217	43
T28B11.7	298	172
T28B11.8	346	45
T28B11.9	142	13
T28B4.10	540	334
T28B4.1A	1760	374
T28B4.1B	1803	417
T28B4.1C	1834	448
T28B4.2	854	221
T28B4.3	538	74
T28B4.4.1	639	186
T28B4.4.2	797	344
T28B4.8	145	30
T28B8.1.1	867	309
T28B8.1.2	1091	533
T28B8.2	493	193
T28B8.3A	5640	2608
T28B8.3B	1320	294
T28B8.4	5699	5103
T28B8.5	1621	1099
T28B8.6	627	119
T28C12.10	148	73
T28C12.11	215	34
T28C12.1	1459	776

T28C12.13	216	59
T28C12.14	138	48
T28C12.2	1469	472
T28C12.3	1293	65
T28C12.4A.1	2208	1717
T28C12.4A.2	2251	1760
T28C12.4B	2121	1630
T28C12.5	1620	1352
T28C12.6	776	147
T28C12.8	179	58
T28C12.9	222	34
T28C6.11	345	104
T28C6.1A	1011	17
T28C6.1B	1047	17
T28C6.1C	802	17
T28C6.1D	825	5
T28C6.1E	573	4
T28C6.1F	1070	5
T28C6.5	996	749
T28C6.7A	7455	310
T28C6.7B	7413	310
T28C6.8	880	83
T28D6.12	165	43
T28D6.15	186	39
T28D6.2	1354	1144
T28D6.3	489	252
T28D6.4	3188	2655
T28D6.5A	2645	276
T28D6.5B	2795	276
T28D6.5C	2693	276
T28D6.5D.1	2804	276
T28D6.5D.2	2963	435
T28D6.5E.1	2702	276
T28D6.5E.2	2861	435
T28D6.5F	2928	409
T28D6.5G	2826	409
T28D6.6A	1242	1095
T28D6.6B	1008	861
T28D6.7	1138	413
T28D6.9	611	235
T28D9.10A	627	124
T28D9.10B	514	18
T28D9.11	525	60
T28D9.12	228	47

T28D9.13	229	72
T28D9.1	728	163
T28D9.2A	757	469
T28D9.2B	684	144
T28D9.2C	839	551
T28D9.2D	837	549
T28D9.3A	1109	490
T28D9.3B.1	1232	613
T28D9.3B.2	1266	647
T28D9.3C.1	948	613
T28D9.3C.2	982	647
T28D9.3D	1194	575
T28D9.3E.1	1198	613
T28D9.3E.2	1232	647
T28D9.4A	1498	794
T28D9.4B	733	29
T28D9.7	3223	1476
T28F12.1	1691	599
T28F12.2A	2257	790
T28F12.2B.1	2276	1141
T28F12.2B.2	2602	1141
T28F12.2C	1020	311
T28F12.2D.1	929	220
T28F12.2D.2	2462	995
T28F12.2E	2596	1141
T28F12.2F	2245	790
T28F12.2G.1	1798	663
T28F12.2G.2	2456	995
T28F12.3	4494	582
T28F2.1	1106	658
T28F2.2	669	522
T28F2.3	974	774
T28F2.4A	2450	1861
T28F2.4B	668	54
T28F2.5	1962	303
T28F2.6	1323	78
T28F2.7	2224	723
T28F2.8	1333	876
T28F3.1A	2139	450
T28F3.1B	2103	450
T28F3.3	1479	652
T28F3.4A	1977	151
T28F3.4B	1850	151
T28F3.5A	4839	1202

T28F3.5B	4782	1202
T28F3.6	807	310
T28F3.8	1698	259
T28F4.1.1	1399	203
T28F4.1.2	1846	650
T28F4.1.3	1309	113
T28F4.2	1638	180
T28F4.3	1592	654
T28F4.4	2385	770
T28F4.5.1	553	158
T28F4.5.2	843	448
T28F4.6	862	403
T28H10.1	1037	99
T28H10.2	955	231
T28H10.3	1536	1136
T28H10.5	143	55
T28H11.1	1188	269
T28H11.2	996	727
T28H11.3	1011	858
T28H11.4A	795	156
T28H11.4B	698	59
T28H11.5	1310	239
T28H11.7	689	472
T28H11.8.1	1476	137
T28H11.8.2	1494	155
VB0395L.1	1023	49
VB0395L.2	374	210
VB0395L.3	125	17
VC27A7L.1	1074	786
VC5.17	344	161
VC5.18	354	74
VC5.2	1934	1303
VC5.3A	4434	1865
VC5.3B	1729	1512
VC5.3C	3682	3465
VC5.4.1	1600	124
VC5.4.2	1829	353
VC5.5	1203	255
VC5.6	1207	38
VC5.8	193	57
VC5.9	316	51
VF11C1L.1	4792	2677
VF13D12L.1	1715	1240
VF13D12L.3	1374	566

VF15C11L.1	178	29
VF15C11L.2	290	53
VF36H2L.1	1107	76
VF39H2L.1	965	74
VK10D6R.1	353	37
VM106R.1	1244	781
VW02B12L.1.1	2698	2306
VW02B12L.1.2	2710	2318
VW02B12L.2	495	204
VW02B12L.3	1134	253
VW02B12L.4	841	104
VW06B3R.1A	1396	957
VW06B3R.1B	1438	999
VY10G11R.1	954	786
VZC374L.1	1370	31
VZK822L.1A.1	1168	522
VZK822L.1A.2	2821	2175
VZK822L.1B.1	1167	521
VZK822L.1B.2	3190	2544
VZK822L.1B.3	2777	2131
VZK822L.1C	3488	2842
VZK822L.2	397	153
W01A11.10	217	61
W01A11.11	181	76
W01A11.1	1421	1145
W01A11.13	149	11
W01A11.18	278	63
W01A11.2	1183	868
W01A11.3A	3809	1511
W01A11.3B	3591	1293
W01A11.3C	2953	655
W01A11.4	737	6
W01A11.5	2383	69
W01A11.6	606	273
W01A11.7.1	693	242
W01A11.7.2	820	363
W01A8.1A.1	1310	937
W01A8.1A.2	1340	967
W01A8.1B.1	1724	937
W01A8.1B.2	1702	937
W01A8.1B.3	1754	967
W01A8.1C.1	1319	946
W01A8.1C.2	1349	976
W01A8.2	1511	541

W01A8.3	1355	263
W01A8.4	656	138
W01A8.5	1016	70
W01A8.6	1274	903
W01A8.8	709	84
W01B11.1	387	101
W01B11.2	2613	407
W01B11.3.1	1789	1023
W01B11.3.2	1791	1023
W01B11.5A	1394	66
W01B11.5B	1912	28
W01B11.6A	416	166
W01B6.1	1349	101
W01B6.15	150	36
W01B6.2	1126	927
W01B6.3	1480	462
W01B6.5	1611	987
W01B6.6	1162	230
W01B6.7	950	219
W01B6.8	715	599
W01B6.9	1907	790
W01C8.11	223	107
W01C8.12	131	9
W01C8.14	210	17
W01C8.15	134	27
W01C8.1	970	321
W01C8.3	3998	551
W01C8.4A	1478	1075
W01C8.4B	1871	1468
W01C8.5A	1903	342
W01C8.5B	1435	107
W01C8.6A	1874	287
W01C8.6B	1685	98
W01C9.1	805	229
W01C9.2	1755	145
W01C9.3A	2780	96
W01C9.3B	2879	350
W01C9.4	958	59
W01C9.5.1	1013	56
W01C9.5.2	1055	240
W01D2.2A.1	1355	1087
W01D2.2A.2	1437	1169
W01D2.2A.3	1633	1365
W01D2.2B.1	1342	1096

W01D2.2B.2	1424	1178
W01D2.2B.3	1620	1374
W01D2.2C	1055	787
W01D2.2D	1042	796
W01D2.3A	1019	533
W01D2.3B.1	700	443
W01D2.3B.2	695	438
W01D2.4	1062	101
W01D2.5A.1	1375	729
W01D2.5A.2	1282	636
W01D2.5B.1	1175	529
W01D2.5B.2	1242	596
W01D2.6	219	5
W01F3.1A	1831	355
W01F3.1B	1644	619
W01F3.2	1047	649
W01F3.3A	6931	3493
W01F3.3B	9793	6355
W01F3.3C	9383	223
W01F3.3D	9766	6328
W01F3.3E	8215	4777
W01F3.3F	7529	4091
W01F3.3G	7502	4064
W01F3.3H	7964	4526
W01G7.1	2495	1717
W01G7.3.1	435	104
W01G7.3.2	682	351
W01G7.4	901	664
W01G7.5	1554	96
W01H2.3A.1	1479	440
W01H2.3A.2	1261	222
W01H2.3B	1343	304
W01H2.9	141	49
W02A11.1	1036	161
W02A11.2.1	725	209
W02A11.2.2	818	302
W02A11.3	1666	1043
W02A11.4	1891	476
W02A11.5	1301	1082
W02A11.8	905	328
W02A2.10	134	33
W02A2.11	186	45
W02A2.1	1269	614
W02A2.2	913	468

W02A2.3	1456	1127
W02A2.5	1464	844
W02A2.6A	2467	539
W02A2.6B	1885	1351
W02A2.6C	277	131
W02A2.7	1960	554
W02A2.8A	706	60
W02A2.9	174	29
W02B12.10	900	508
W02B12.11.1	1486	100
W02B12.11.2	1682	296
W02B12.1	1241	679
W02B12.12A	1104	183
W02B12.12B	1181	183
W02B12.13A	870	411
W02B12.13B	867	411
W02B12.15A	503	22
W02B12.15B	623	142
W02B12.16	353	169
W02B12.17	364	159
W02B12.2	1075	392
W02B12.3A	1114	372
W02B12.3B	1531	365
W02B12.3C	1615	1259
W02B12.4	1892	871
W02B12.6A	2607	1106
W02B12.6B	2356	1048
W02B12.7	1509	833
W02B12.8A	1485	87
W02B12.8B.1	903	137
W02B12.8B.2	1233	194
W02B12.8B.3	1487	89
W02B12.8B.4	1451	57
W02B12.9	1311	841
W02B3.2	2131	232
W02B3.3	336	76
W02B3.4	1426	118
W02B3.7	1139	941
W02B8.1.1	765	357
W02B8.1.2	661	253
W02B8.2	3905	1969
W02B8.3	2232	1641
W02B8.4	2202	1312
W02B8.5	714	261

W02B8.6	2240	819
W02B8.8	131	17
W02B8.9	179	55
W02B9.1A	4689	3298
W02B9.1B	9485	8094
W02B9.1C.1	4133	2745
W02B9.1C.2	3787	2745
W02B9.1D.1	3810	2422
W02B9.1D.2	3464	2422
W02B9.1E.1	3416	2028
W02B9.1E.2	3070	2028
W02C12.2A	686	95
W02C12.2B	693	14
W02C12.3A.1	2514	1352
W02C12.3A.2	2511	1349
W02C12.3B	2484	1335
W02C12.3C	2497	1410
W02C12.3D	2251	1189
W02C12.3E	2263	1114
W02C12.3F	2366	1275
W02C12.3G.1	1896	1417
W02C12.3G.2	1893	1414
W02C12.3H.1	2073	907
W02C12.3H.2	2515	1349
W02C12.3H.3	2437	1271
W02D3.10A	4643	1705
W02D3.10B	2856	1705
W02D3.11A	1790	1029
W02D3.11B	1557	151
W02D3.12	329	10
W02D3.1	551	63
W02D3.2	1639	1259
W02D3.3	1503	761
W02D3.4.1	1428	605
W02D3.4.2	1420	597
W02D3.5	538	162
W02D3.6	1390	940
W02D3.7	483	166
W02D3.8	1812	909
W02D3.9.1	2075	673
W02D3.9.2	2087	685
W02D7.10	815	51
W02D7.11	252	33
W02D7.12	429	29

W02D7.2	1254	611
W02D7.3	432	236
W02D7.4	763	434
W02D7.5	839	88
W02D7.6	1108	264
W02D7.7	788	475
W02D7.8	450	201
W02D9.10	783	399
W02D9.1A.1	1598	1230
W02D9.1A.2	1645	1277
W02D9.1B.1	1605	1237
W02D9.1B.2	1610	1242
W02D9.1B.3	1293	925
W02D9.2A	1002	617
W02D9.2B	985	600
W02D9.2C	981	596
W02D9.3	1486	842
W02D9.5	451	88
W02D9.6	450	249
W02D9.7	398	170
W02D9.8	231	61
W02D9.9	260	60
W02F12.2	1034	310
W02F12.3	1371	323
W02F12.4A	1264	7
W02F12.4B	412	96
W02F12.4C	587	7
W02F12.4D	1348	762
W02F12.5	1644	152
W02F12.6	789	119
W02F12.7	900	511
W02F12.8	303	51
W02G9.10	570	296
W02G9.1	830	410
W02G9.2	2255	116
W02G9.3	1038	891
W02G9.4	970	579
W02G9.5	881	44
W02H3.1A	735	276
W02H3.1B	406	248
W02H3.3	349	39
W02H5.10	342	77
W02H5.11	735	405
W02H5.12	342	77

W02H5.16	459	135
W02H5.2	2142	1770
W02H5.4	1536	328
W02H5.5	462	180
W02H5.6	1091	549
W02H5.7	1372	1218
W02H5.8	1857	822
W03A3.1	1095	705
W03A3.2	5094	1
W03A5.1	2580	968
W03A5.2	934	332
W03A5.3	489	180
W03A5.4.1	1562	848
W03A5.4.2	1780	1066
W03A5.6	861	685
W03A5.7	750	480
W03B1.16	150	64
W03B1.17	200	42
W03B1.2	2631	1781
W03B1.3.1	997	657
W03B1.3.2	1013	673
W03B1.4A	1385	472
W03B1.4B	1048	125
W03B1.7A	2147	655
W03B1.7B	2108	616
W03B1.7C	1441	618
W03B1.8	2061	1225
W03C9.1	810	535
W03C9.2	1539	1135
W03C9.3.1	791	189
W03C9.3.2	975	189
W03C9.4A	2304	801
W03C9.4B	1368	562
W03C9.4C	2013	537
W03C9.5	392	82
W03C9.6.1	1671	11
W03C9.6.2	1891	231
W03C9.7A.1	1880	264
W03C9.7A.2	1739	264
W03C9.7A.3	1704	264
W03C9.7B.1	1160	485
W03C9.7B.2	1023	485
W03C9.7B.3	988	485
W03C9.8	321	23

W03D2.10	1023	153
W03D2.12	1749	1579
W03D2.1A	1651	383
W03D2.1B	1601	333
W03D2.1C	1664	396
W03D2.1D	1517	276
W03D2.4	999	122
W03D2.5A	686	156
W03D2.5B	575	332
W03D2.5C	348	3
W03D2.6	582	41
W03D2.7	427	107
W03D2.9	532	256
W03D8.10	777	619
W03D8.1	1504	96
W03D8.11	868	142
W03D8.2A	1069	760
W03D8.2B	1140	831
W03D8.3	603	149
W03D8.5	827	552
W03D8.6A	5111	1931
W03D8.6B	5036	1931
W03D8.7	603	129
W03D8.8	1293	523
W03D8.9.1	1108	239
W03D8.9.2	1069	200
W03F11.1	803	143
W03F11.2	3595	851
W03F11.3	639	91
W03F11.4	4254	2786
W03F11.5	916	630
W03F11.6A	5308	2843
W03F11.6B	2348	842
W03F11.6C	4289	2843
W03F11.6D	4464	2843
W03F11.6E	4061	1596
W03F8.1	835	1
W03F8.3A	1310	874
W03F8.3B	396	41
W03F8.4	909	110
W03F8.5A	5915	1653
W03F8.5B	231	63
W03F8.6A.1	647	117
W03F8.6A.2	513	100

W03F8.6B	470	118
W03F8.9A	985	474
W03F8.9B	991	474
W03F9.10	2001	1675
W03F9.11	668	176
W03F9.1	1802	1133
W03F9.2A	857	85
W03F9.2B	361	58
W03F9.3	441	198
W03F9.4	3112	1975
W03F9.5.1	1265	890
W03F9.5.2	1268	893
W03F9.5.3	1183	890
W03F9.6	1083	322
W03F9.9	843	13
W03G1.10	150	69
W03G11.10	206	56
W03G11.13	280	166
W03G11.14	493	247
W03G11.16	214	32
W03G1.1	1626	1372
W03G11.18	199	37
W03G11.19	213	63
W03G11.1A	1095	104
W03G11.1B	942	353
W03G11.2	1198	551
W03G11.21	222	27
W03G11.3	1621	1270
W03G11.4.1	1701	1217
W03G11.4.2	1868	1384
W03G11.4.3	1759	1217
W03G11.6	149	54
W03G11.7	150	59
W03G11.8	217	23
W03G1.2	1187	658
W03G1.5	1619	121
W03G1.6A	2438	973
W03G1.6B	2100	973
W03G1.6C	2447	973
W03G1.6D	2109	973
W03G1.6E	1725	260
W03G1.6F	1387	260
W03G1.6G	1734	260
W03G1.6H	1396	260

W03G1.7A	1864	481
W03G1.7B	1714	331
W03G1.8	645	175
W03G9.1	2312	918
W03G9.2	1693	258
W03G9.4.1	2097	906
W03G9.4.2	2337	1146
W03G9.5	1467	73
W03G9.6	1293	1056
W03G9.7	1706	1215
W03G9.8	440	216
W03G9.9	1033	716
W03H1.2	540	221
W03H9.1	2652	182
W03H9.2A	702	562
W03H9.2B	681	587
W03H9.4A	2232	1775
W03H9.4B	1253	796
W03H9.4C	798	341
W04A4.2	1098	246
W04A4.3	450	200
W04A4.4	759	494
W04A4.5	3348	704
W04A4.6	629	179
W04A8.1A	2334	783
W04A8.1B	2272	721
W04A8.2	777	335
W04A8.4	745	371
W04A8.5	1026	110
W04A8.6A	1539	491
W04A8.6B	1511	463
W04A8.7	5683	982
W04A8.9	600	339
W04B5.1.1	567	304
W04B5.1.2	653	290
W04B5.3A	1430	1250
W04B5.3B	1501	1321
W04B5.3C	1774	1603
W04B5.4	765	104
W04B5.5	1140	402
W04C9.1A	2518	2152
W04C9.1B	2301	1935
W04C9.2	454	189
W04C9.3	1515	223

W04C9.4	550	217
W04C9.5	1125	62
W04C9.6	1380	617
W04C9.9	552	397
W04D12.1	258	114
W04D2.10	282	39
W04D2.11	150	67
W04D2.14	145	48
W04D2.1A	3171	1957
W04D2.1B	3093	1879
W04D2.1C	3047	1833
W04D2.1D	2969	1755
W04D2.2A	1146	676
W04D2.2B	742	419
W04D2.3A.1	1547	720
W04D2.3A.2	1587	760
W04D2.3B	1734	146
W04D2.4	1980	273
W04D2.5	762	276
W04D2.6A	2384	166
W04D2.6B	1728	1314
W04D2.6C	2390	166
W04E12.1	633	459
W04E12.4	733	152
W04E12.5A	708	441
W04E12.5B	614	306
W04E12.6	1017	686
W04E12.7	838	44
W04E12.8	1043	674
W04E12.9A	510	330
W04E12.9B	727	547
W04G3.11	610	208
W04G3.12	378	218
W04G3.13	377	91
W04G3.1A	1246	621
W04G3.1B.1	1036	411
W04G3.1B.2	1191	566
W04G3.2	2162	843
W04G3.3	1389	122
W04G3.4	2154	666
W04G3.5A	1335	697
W04G3.5B	1338	700
W04G3.6A.1	896	238
W04G3.6A.2	1144	226

W04G3.6A.3	1109	191
W04G3.6B.1	896	238
W04G3.6B.2	1144	226
W04G3.6B.3	1109	191
W04G3.6C	821	227
W04G3.6D	2016	1094
W04G3.7	601	78
W04G3.8	2032	165
W04G5.10	1239	104
W04G5.2A	597	117
W04G5.2B	1189	919
W04G5.2C	588	108
W04G5.4	1591	877
W04G5.5	1239	1019
W04G5.6	1176	1047
W04G5.7	1179	490
W04G5.8	1281	745
W04G5.9	1218	336
W04H10.1	213	8
W04H10.3A	2226	1430
W04H10.3B.1	2037	1241
W04H10.3B.2	2191	1395
W04H10.6	253	6
W05B10.1	579	200
W05B10.2.1	905	458
W05B10.2.2	823	376
W05B10.4	860	66
W05B10.5A	984	28
W05B10.5B	978	28
W05B2.13	150	18
W05B2.2	3887	713
W05B2.4	6753	1971
W05B2.7	1628	915
W05B5.1A	1080	4
W05B5.1B	1071	84
W05B5.1C	998	305
W05B5.1D	819	126
W05B5.1E.1	958	265
W05B5.1E.2	1164	109
W05B5.1F	303	4
W05B5.1G	1101	4
W05B5.2	1864	823
W05B5.3A	1626	352
W05B5.3B	1325	51

W05E10.1	1630	1281
W05E10.13	564	417
W05E10.14	133	53
W05E10.17	147	40
W05E10.19	313	40
W05E10.20	225	43
W05E10.21	184	56
W05E10.2	398	151
W05E10.3	1865	148
W05E10.4A	1902	408
W05E10.4B	1961	1600
W05E10.4C	692	333
W05E10.5A	857	104
W05E10.5B	584	192
W05E7.1	694	336
W05E7.2	1007	723
W05E7.3	606	130
W05F2.3	800	99
W05F2.4A	6219	15
W05F2.4B	2855	1744
W05F2.4C	2570	1227
W05F2.4D	3054	1943
W05F2.4E	5356	15
W05F2.5.1	1247	23
W05F2.5.2	1074	23
W05F2.6	1477	1120
W05F2.7	3730	1528
W05G11.2	595	177
W05G11.3.1	958	757
W05G11.3.2	957	756
W05G11.4	2101	1236
W05G11.5	972	51
W05G11.6A.1	2062	793
W05G11.6A.2	2063	794
W05G11.6B.1	1981	712
W05G11.6B.2	1783	514
W05G11.6B.3	2062	793
W05G11.6C	1456	208
W05G11.6D.1	2185	793
W05G11.6D.2	2186	794
W05H12.1	1655	959
W05H5.1	963	23
W05H5.3	1458	636
W05H5.4	1077	725

W05H5.5	1077	807
W05H5.6	1203	959
W05H5.7	1116	830
W05H5.8	1077	424
W05H5.9	213	63
W05H7.1	1019	295
W05H7.3	527	116
W05H7.4A	1927	119
W05H7.4B	2168	360
W05H7.4C	805	177
W05H7.4D.1	322	40
W05H7.4D.2	407	64
W05H7.4E	2110	293
W05H9.1A.1	1330	751
W05H9.1A.2	1344	765
W05H9.1B.1	1306	775
W05H9.1B.2	1320	789
W05H9.2	2925	1202
W05H9.3.1	854	67
W05H9.4	2630	649
W06A11.1	573	242
W06A11.2	2406	624
W06A11.3	786	412
W06A11.5	472	172
W06A7.2A	555	148
W06A7.2B	537	148
W06A7.3A	1212	125
W06A7.3B	1396	337
W06A7.3C	10319	9166
W06A7.3D	2195	1042
W06A7.3E	1101	203
W06A7.3F	10331	9166
W06A7.3G.1	2276	1123
W06A7.3G.2	1904	751
W06A7.4A	1087	782
W06A7.4B	557	252
W06A7.6	222	26
W06B11.11	150	32
W06B11.1	973	629
W06B11.2	3323	1470
W06B11.3	894	255
W06B11.4A	619	456
W06B11.4B	849	686
W06B11.5	311	74

W06B11.6	446	53
W06B11.8	134	35
W06B3.1	805	137
W06B3.2A	1992	256
W06B3.2B	1897	256
W06B3.2C	2054	413
W06B3.2D	1845	109
W06B4.1	1711	473
W06B4.2	1655	227
W06B4.3	3245	924
W06D11.1	947	73
W06D11.3	722	361
W06D11.4	1098	29
W06D12.1	1462	390
W06D12.2	1368	1180
W06D12.3	2335	1755
W06D12.4	1077	302
W06D12.5	2052	99
W06D12.6	627	78
W06D4.1	1505	631
W06D4.2	1004	701
W06D4.3	819	305
W06D4.4	2035	537
W06D4.5	508	100
W06D4.6	2686	2153
W06E11.1	1452	220
W06E11.2	591	16
W06E11.4	1005	316
W06E11.5A	610	128
W06E11.5B	419	130
W06F12.1A	2515	895
W06F12.1B	2046	426
W06F12.1C	2524	594
W06F12.1D	2540	920
W06F12.1E.1	2335	741
W06F12.1E.2	2132	538
W06F12.2A	1944	459
W06F12.2B	1990	505
W06F12.2C	1729	505
W06F12.2D	1956	459
W06F12.2E	2002	505
W06F12.3	1007	400
W06G6.10	410	60
W06G6.1	2115	1216

W06G6.12	270	41
W06G6.13	999	663
W06G6.17	351	56
W06G6.20.1	291	44
W06G6.20.2	374	127
W06G6.21	513	67
W06G6.2	300	213
W06G6.3	957	607
W06G6.6	1029	471
W06G6.7	1536	307
W06G6.8	1050	698
W06G6.9	386	211
W06H12.1	2048	816
W06H3.1	2101	1709
W06H3.2A	1380	313
W06H3.2B	491	218
W06H3.3	2051	1404
W06H8.10	288	128
W06H8.12	284	171
W06H8.13	368	268
W06H8.15	216	73
W06H8.1A	2872	288
W06H8.1B	2906	322
W06H8.1C	2197	1648
W06H8.1D	2128	1579
W06H8.1E	2240	1691
W06H8.1F.1	2082	1533
W06H8.1F.2	2634	51
W06H8.2	1488	208
W06H8.4	1057	414
W06H8.5	2525	335
W06H8.6	1013	711
W06H8.8A	2268	123
W06H8.8B	2205	123
W06H8.8C	9961	123
W06H8.8D	31830	123
W07A12.4	1435	201
W07A12.5	837	257
W07A12.6	1462	98
W07A12.7	1824	1017
W07A12.8	623	345
W07A8.1	963	349
W07A8.2A	3307	1464
W07A8.2B	3301	1458

W07A8.2C	3331	1488
W07A8.2D	663	263
W07A8.3A	2696	28
W07A8.3B	1767	144
W07A8.3C	1648	25
W07A8.5	987	485
W07B3.2A.1	2289	770
W07B3.2A.2	2460	941
W07B3.2B.1	2358	839
W07B3.2B.2	2540	1021
W07B3.2C.1	2296	839
W07B3.2C.2	2478	1021
W07B3.2D.1	2286	854
W07B3.2D.2	2468	1036
W07B3.2E.1	552	282
W07B3.2E.2	723	453
W07B3.2F.1	2346	827
W07B3.2F.2	2517	998
W07B8.1	1082	289
W07B8.3	1139	650
W07B8.4	1130	409
W07B8.5	1163	649
W07E11.1A	6755	4348
W07E11.1B	6785	4378
W07E11.2	712	57
W07E11.3A	587	265
W07E11.3B	496	105
W07E11.4	507	166
W07E6.1	2227	676
W07E6.2	1541	714
W07E6.3A	1146	103
W07E6.3B	984	22
W07E6.3C.1	805	48
W07E6.3C.2	956	199
W07E6.3C.3	870	113
W07E6.4	2096	352
W07E6.5A	707	140
W07E6.5B	960	174
W07G1.1	876	103
W07G1.2	1092	209
W07G1.3.1	1254	608
W07G1.3.2	1115	469
W07G1.5A	1354	1225
W07G1.5B	1390	1059

W07G1.6	1083	226
W07G1.7	527	346
W07G4.10	285	139
W07G4.1	327	2
W07G4.2	1083	335
W07G4.3.1	2632	1866
W07G4.3.2	2630	1866
W07G4.3.3	2558	1866
W07G4.4	2074	286
W07G4.5	1123	874
W07G4.6	1472	648
W07G4.7	339	208
W07G9.2	1197	45
W08A12.1A	1978	326
W08A12.1B.1	1887	33
W08A12.1B.2	1845	87
W08A12.1C	1803	30
W08A12.1D	1885	233
W08A12.3	929	268
W08A12.4	1116	30
W08D2.11	300	178
W08D2.1	1847	60
W08D2.12	149	18
W08D2.13	148	12
W08D2.3A	1760	1054
W08D2.3B	1777	1071
W08D2.3C	1729	1023
W08D2.4A	1491	737
W08D2.4B	718	364
W08D2.4C	400	49
W08D2.4D.1	1417	663
W08D2.4D.2	1478	724
W08D2.5A	4155	232
W08D2.5B	2981	1167
W08D2.5C	3923	2109
W08D2.6	1166	893
W08D2.7	3218	1587
W08D2.8	1632	1194
W08E12.1	1234	302
W08E12.2	460	218
W08E12.6	648	97
W08E12.7.1	1847	1004
W08E12.7.2	1843	1000
W08E12.8A	618	84

W08E12.8B.1	597	63
W08E12.8B.2	703	82
W08E12.9	276	127
W08E3.1	722	14
W08E3.2	2081	1603
W08E3.3A	1401	393
W08E3.3B	1277	269
W08E3.4	837	517
W08F4.12	578	39
W08F4.2	1183	17
W08F4.3	885	461
W08F4.5	485	199
W08F4.6	1047	325
W08F4.7	738	183
W08F4.8A	1377	945
W08F4.8B	1469	66
W08F4.9	639	228
W08G11.1	1161	877
W08G11.3A	1906	60
W08G11.3B	1899	50
W08G11.4	2700	615
W08G11.5	918	599
W08G11.6	137	47
W09B12.1.1	1984	505
W09B12.1.2	2525	569
W09B12.2	271	61
W09B6.1A.1	6523	120
W09B6.1A.2	6453	120
W09B6.1B	2794	120
W09B6.1C.1	6828	425
W09B6.1C.2	6758	425
W09B6.2	1473	777
W09B6.3	1790	465
W09B6.4A	839	361
W09B6.4B.1	619	268
W09B6.4B.2	772	362
W09B6.5	804	90
W09B7.2	951	176
W09C2.1A	1955	326
W09C2.1B	1743	114
W09C2.1C	1947	318
W09C2.1D	1952	326
W09C2.1E	880	15
W09C2.3A	4438	147

W09C2.3B	4361	151
W09C2.3C	4410	213
W09C2.3D	4437	147
W09C2.7	282	56
W09C2.9	272	112
W09C3.2	1383	797
W09C3.3	894	541
W09C3.4	1048	597
W09C3.6	1049	505
W09C3.7	905	294
W09C3.9	3257	1674
W09C5.11	157	17
W09C5.12	768	130
W09C5.1	966	685
W09C5.2	1612	986
W09C5.4	519	226
W09C5.5	2306	765
W09C5.6A	441	48
W09C5.6B.1	506	115
W09C5.6B.2	441	39
W09C5.6B.4	432	40
W09C5.6B.5	407	17
W09C5.7A	2534	1182
W09C5.7B	1241	305
W09C5.8	856	246
W09D10.1.1	1860	81
W09D10.1.2	1854	75
W09D10.2	4657	2088
W09D10.3	652	13
W09D10.4	1659	555
W09D10.5	1147	249
W09D10.7	3548	691
W09D12.1	1490	752
W09D12.2	927	308
W09D12.3	903	599
W09D12.5	296	142
W09D6.1A	2637	857
W09D6.1B	2691	857
W09D6.1C	2670	857
W09D6.2	1056	443
W09D6.3	1035	448
W09D6.4	447	164
W09D6.5	1031	505
W09D6.6	2565	1066

W09D6.9	150	63
W09G10.1A	598	420
W09G10.1B	904	225
W09G10.3	1254	107
W09G10.4A	4130	3342
W09G10.4B	3417	2629
W09G10.5	610	440
W09G10.6	2088	1857
W09G12.1	1028	353
W09G12.3	440	312
W09G12.4	759	299
W09G12.6	537	39
W09G12.7	1371	124
W09G12.9	668	245
W09G3.1A	1030	540
W09G3.1B	1768	1306
W09G3.2	1666	1105
W09G3.3	727	314
W09G3.6A	3623	264
W09G3.8.1	339	138
W09G3.8.2	353	152
W09H1.1A	1385	119
W09H1.1B	1351	88
W09H1.3	343	213
W09H1.4	445	4
W09H1.5	1187	106
W09H1.6A	995	536
W09H1.6B	1061	71
W09H1.7	145	25
W10C4.1	1254	889
W10C6.1	4604	3920
W10C6.2	632	324
W10C8.1	1074	909
W10C8.15	217	71
W10C8.17	191	75
W10C8.2	1317	230
W10C8.3	207	82
W10C8.4A	765	397
W10C8.5.1	1343	134
W10C8.5.2	1326	117
W10C8.6	282	53
W10C8.9	148	50
W10D5.1	1206	185
W10D5.2.1	865	69

W10D5.2.2	1107	311
W10D5.3A.1	2388	434
W10D5.3A.2	2419	465
W10D5.3A.3	2761	807
W10D5.3B	2351	2129
W10D5.3C.1	2707	950
W10D5.3C.2	2691	934
W10D5.3C.3	3064	1307
W10D5.3D	2755	801
W10D5.3E.1	2340	434
W10D5.3E.2	2371	465
W10D5.3E.3	2713	807
W10D5.3F.1	2497	2067
W10D5.3F.2	2528	2098
W10D5.3F.3	2870	2440
W10D5.3G.1	2324	1894
W10D5.3G.2	2666	2236
W10D9.1	317	98
W10D9.3	618	142
W10D9.4	1589	371
W10D9.5	475	124
W10D9.6	654	392
W10G11.10	1059	269
W10G11.11	957	511
W10G11.12	525	90
W10G11.13	651	262
W10G11.14	633	115
W10G11.16	1034	497
W10G11.1	619	477
W10G11.17	1320	983
W10G11.19	1603	581
W10G11.20.1	641	318
W10G11.20.2	643	318
W10G11.20.3	642	318
W10G11.2	707	450
W10G11.4	486	256
W10G11.5	957	29
W10G11.6	1356	308
W10G11.7	1056	314
W10G11.9	1419	885
W10G6.1	258	49
W10G6.2A	1545	237
W10G6.2B	1645	337
W10G6.3	1937	1525

W10G6.5	430	204
W10G6.6	422	26
Y102A11A.13	148	60
Y102A11A.17	208	5
Y102A11A.1	957	356
Y102A11A.2A	2360	2028
Y102A11A.2B	2273	1971
Y102A11A.3	5114	1253
Y102A11A.5	498	173
Y102A11A.6	995	712
Y102A11A.7	527	225
Y102A11A.8	2076	227
Y102A11A.9.1	1673	1174
Y102A11A.9.2	1671	1174
Y102A5A.1	4305	969
Y102A5B.1	1092	215
Y102A5B.2A	1068	181
Y102A5B.2B	1083	181
Y102A5B.3	1103	107
Y102A5C.1	1179	856
Y102A5C.15	1017	246
Y102A5C.18	1399	256
Y102A5C.19	972	695
Y102A5C.22	918	793
Y102A5C.2	591	91
Y102A5C.27	363	147
Y102A5C.28	1035	705
Y102A5C.31	1050	126
Y102A5C.32	978	832
Y102A5C.33	981	685
Y102A5C.36.1	370	72
Y102A5C.36.2	365	127
Y102A5C.40	501	169
Y102A5C.4	1593	1085
Y102A5C.9	525	403
Y102E9.1A.1	1534	990
Y102E9.1A.2	1565	1021
Y102E9.1A.3	1433	889
Y102E9.1A.4	1439	895
Y102E9.1B	1681	1137
Y102E9.1C	1526	982
Y102E9.2A	1440	513
Y102E9.2B	1449	513
Y102E9.3	372	200

Y102E9.5	579	177
Y102E9.6	509	278
Y102F5A.1	1266	416
Y104H12A.1A	2121	742
Y104H12A.1B.1	2069	690
Y104H12A.1B.2	1993	614
Y104H12A.1C	1993	614
Y104H12A.1D	1743	364
Y104H12A.1E.1	1641	262
Y104H12A.1E.2	1993	614
Y104H12BR.1A	1167	466
Y104H12BR.1B	1971	475
Y104H12D.1A	680	268
Y104H12D.1B	290	124
Y104H12D.2	1048	251
Y104H12D.3A	2218	408
Y104H12D.3B	1417	205
Y104H12D.4	961	615
Y105C5A.11	1041	741
Y105C5A.12	231	69
Y105C5A.1	2652	1351
Y105C5A.1269	487	45
Y105C5A.13A	755	77
Y105C5A.13B	625	69
Y105C5A.15A	2933	1187
Y105C5A.15B	2942	856
Y105C5A.17	222	121
Y105C5A.22	525	320
Y105C5A.23	1440	1066
Y105C5A.24	1651	69
Y105C5A.8A	865	639
Y105C5A.9	294	203
Y105C5B.10	1065	356
Y105C5B.11A	1752	421
Y105C5B.11B	2319	731
Y105C5B.1413	465	358
Y105C5B.1414	225	44
Y105C5B.1418	210	27
Y105C5B.1420	882	132
Y105C5B.14	615	275
Y105C5B.15	1316	294
Y105C5B.16	1203	84
Y105C5B.1	712	215
Y105C5B.17	603	141

Y105C5B.18	639	37
Y105C5B.19	1558	768
Y105C5B.20	898	459
Y105C5B.21A	4229	314
Y105C5B.21B	3857	1439
Y105C5B.21C	4010	95
Y105C5B.21D	3500	1082
Y105C5B.23	1017	6
Y105C5B.2	3129	2956
Y105C5B.25	1402	1075
Y105C5B.28A	1429	457
Y105C5B.28B	1411	439
Y105C5B.28C.1	1207	235
Y105C5B.28C.2	1157	145
Y105C5B.28C.3	939	426
Y105C5B.29	454	187
Y105C5B.3	1317	72
Y105C5B.5	501	151
Y105C5B.6A	1002	298
Y105C5B.6B	642	442
Y105C5B.8	1083	271
Y105C5B.9	916	523
Y105E8A.10A	3008	2123
Y105E8A.10B	2986	2101
Y105E8A.10C.1	2900	2015
Y105E8A.10C.2	2964	2079
Y105E8A.11	392	130
Y105E8A.12A	3566	1762
Y105E8A.12B	3367	1762
Y105E8A.13A	942	577
Y105E8A.13B	517	163
Y105E8A.14	680	545
Y105E8A.16.1	598	136
Y105E8A.16.2	846	387
Y105E8A.17A	1697	156
Y105E8A.17B	1703	156
Y105E8A.19	2426	1463
Y105E8A.1A	688	340
Y105E8A.1B	731	284
Y105E8A.20A.1	1574	590
Y105E8A.20A.2	1556	593
Y105E8A.20B	1647	663
Y105E8A.2	1849	1220
Y105E8A.21A	2912	818

Y105E8A.21B	757	91
Y105E8A.22	877	351
Y105E8A.23A	3510	2583
Y105E8A.23B	3564	2583
Y105E8A.24A	3640	927
Y105E8A.24B	3897	927
Y105E8A.25	1578	105
Y105E8A.26A	3607	128
Y105E8A.26B	3490	128
Y105E8A.26C	3483	31
Y105E8A.26D	3550	99
Y105E8A.26E	3580	128
Y105E8A.27	859	293
Y105E8A.28	789	546
Y105E8A.29	1218	802
Y105E8A.32	363	133
Y105E8A.3	2563	746
Y105E8A.36	477	163
Y105E8A.4	811	162
Y105E8A.5	1912	816
Y105E8A.6	1147	154
Y105E8A.7A	2827	1007
Y105E8A.7B	2941	1007
Y105E8A.7D	632	154
Y105E8A.7E	1604	1007
Y105E8A.8	1562	420
Y105E8A.9	3014	1740
Y105E8B.11	201	45
Y105E8B.1A	1497	986
Y105E8B.1B.1	1478	1022
Y105E8B.1B.2	1464	1008
Y105E8B.1C	1321	192
Y105E8B.1D	1686	1230
Y105E8B.1E.1	1185	590
Y105E8B.1E.2	1383	938
Y105E8B.1F	1301	829
Y105E8B.1G	1683	1230
Y105E8B.1I.1	1475	1022
Y105E8B.1I.2	1461	1008
Y105E8B.1J	1464	1008
Y105E8B.2A.1	2250	830
Y105E8B.2A.2	2335	915
Y105E8B.2B.1	1171	830
Y105E8B.2B.2	1256	915

Y105E8B.3.1	1817	134
Y105E8B.3.2	1888	205
Y105E8B.4	1656	1024
Y105E8B.5	852	49
Y105E8B.7	930	689
Y105E8B.8A	1653	686
Y105E8B.8B.1	1534	567
Y105E8B.8B.2	1650	683
Y105E8B.8C	1758	791
Y105E8B.8D	1656	689
Y105E8B.8E	970	3
Y105E8B.9	1993	1168
Y106G6A.1	1572	1223
Y106G6A.2A	1457	111
Y106G6A.2B	1151	628
Y106G6A.2C	1321	669
Y106G6A.2D	997	345
Y106G6A.4	682	189
Y106G6A.5A	909	54
Y106G6A.5B	880	417
Y106G6A.6	410	150
Y106G6A.7	210	44
Y106G6A.9	436	177
Y106G6D.2	897	681
Y106G6D.3	1820	1186
Y106G6D.4	1340	271
Y106G6D.6	1009	16
Y106G6D.7	3241	490
Y106G6D.8.1	439	162
Y106G6D.8.2	543	260
Y106G6E.1	1146	566
Y106G6E.4	776	323
Y106G6E.5A	2289	644
Y106G6E.5B	2803	1158
Y106G6E.6	1757	1072
Y106G6E.7	177	77
Y106G6G.1	1153	768
Y106G6G.2	2818	846
Y106G6G.4	1013	391
Y106G6G.6	1293	927
Y106G6H.1	1484	874
Y106G6H.12A	3044	2517
Y106G6H.12B	2628	2101
Y106G6H.12C	2137	1610

Y106G6H.14	774	544
Y106G6H.15	837	35
Y106G6H.16	502	98
Y106G6H.2A.1	2144	400
Y106G6H.2A.2	2177	400
Y106G6H.2A.3	2302	558
Y106G6H.2A.4	2316	572
Y106G6H.2A.5	2273	529
Y106G6H.2B.1	2103	359
Y106G6H.2B.2	2136	359
Y106G6H.2C.1	2167	1311
Y106G6H.2C.2	2200	1311
Y106G6H.2C.3	2057	1201
Y106G6H.2C.4	2136	1280
Y106G6H.2C.5	2093	1237
Y106G6H.3A	397	97
Y106G6H.3B	326	65
Y106G6H.3C.1	518	219
Y106G6H.3C.2	366	65
Y106G6H.4	718	57
Y106G6H.5	2799	31
Y106G6H.6A.1	1497	620
Y106G6H.6A.2	1425	620
Y106G6H.6B.1	1386	311
Y106G6H.6B.2	1314	311
Y106G6H.6C.1	1188	313
Y106G6H.6C.2	1116	313
Y106G6H.6D.1	1299	451
Y106G6H.6D.2	1227	451
Y106G6H.6E.1	1014	166
Y106G6H.6E.2	942	166
Y106G6H.6F.1	903	28
Y106G6H.6F.2	831	28
Y106G6H.6G.1	1101	26
Y106G6H.6G.2	1029	26
Y106G6H.6H.1	1311	434
Y106G6H.6H.2	1239	434
Y106G6H.7	2824	1986
Y106G6H.8	561	1
Y108F1.3	1656	67
Y108G3AL.1.1	2522	2207
Y108G3AL.1.2	2565	2250
Y108G3AL.2	1135	71
Y108G3AL.3	2111	632

Y108G3AL.7	5193	4100
Y10G11A.1A	1199	331
Y10G11A.1B	553	297
Y110A2AL.10	340	163
Y110A2AL.12A	1491	145
Y110A2AL.12B	1087	323
Y110A2AL.13	511	195
Y110A2AL.14	1126	846
Y110A2AL.1	581	247
Y110A2AL.2	1474	890
Y110A2AL.3	413	141
Y110A2AL.4A	923	483
Y110A2AL.4B	722	483
Y110A2AL.6	525	87
Y110A2AL.7	542	236
Y110A2AL.8A	4396	4009
Y110A2AL.8B	4405	4018
Y110A2AL.8C	4342	3955
Y110A2AL.9	492	253
Y110A2AM.1	1040	668
Y110A2AM.3	632	248
Y110A2AR.1	1020	410
Y110A2AR.2	713	311
Y110A2AR.3A	1085	696
Y110A7A.10	1787	390
Y110A7A.11	904	609
Y110A7A.12	1609	55
Y110A7A.13	1198	316
Y110A7A.14.1	896	319
Y110A7A.14.2	1052	475
Y110A7A.15A	1895	442
Y110A7A.15B	198	75
Y110A7A.16	3838	3617
Y110A7A.17A	2645	736
Y110A7A.17B	1029	736
Y110A7A.18	3228	494
Y110A7A.19	2095	80
Y110A7A.1A	5351	4714
Y110A7A.1B	5343	4714
Y110A7A.20	390	111
Y110A7A.2	1008	801
Y110A7A.21	592	248
Y110A7A.23	135	40
Y110A7A.3	1623	69

Y110A7A.4	1033	127
Y110A7A.5	1931	1253
Y110A7A.6A.1	1547	338
Y110A7A.6A.2	1745	536
Y110A7A.6B.1	1436	349
Y110A7A.6B.2	1623	536
Y110A7A.7	1021	602
Y110A7A.8	1615	55
Y110A7A.9A	3230	1521
Y110A7A.9B	2893	1184
Y111B2A.10A	1487	320
Y111B2A.10B	1316	149
Y111B2A.1	1328	1066
Y111B2A.11	3667	2354
Y111B2A.12A	1406	64
Y111B2A.12B	822	16
Y111B2A.13	651	157
Y111B2A.14A.1	4509	286
Y111B2A.14A.2	4400	286
Y111B2A.14B.1	4599	286
Y111B2A.14B.2	4490	286
Y111B2A.15	1426	241
Y111B2A.16	863	36
Y111B2A.17	2408	617
Y111B2A.18.1	1343	515
Y111B2A.18.2	1009	757
Y111B2A.19	1753	1476
Y111B2A.20A.1	1233	258
Y111B2A.20A.2	1279	304
Y111B2A.20B	405	58
Y111B2A.21	886	328
Y111B2A.22A	7210	3344
Y111B2A.22B	5671	3344
Y111B2A.22C	2625	1916
Y111B2A.22D	6750	2884
Y111B2A.24	1713	712
Y111B2A.2	509	56
Y111B2A.25	3670	1684
Y111B2A.27	714	39
Y111B2A.3	2489	407
Y111B2A.36	241	72
Y111B2A.4A	3989	1304
Y111B2A.4B	4083	1302
Y111B2A.5B	1401	17

Y111B2A.8	2016	883
Y111B2A.9A	1482	730
Y111B2A.9B	1242	490
Y113G7A.10	965	509
Y113G7A.11	1239	75
Y113G7A.12	674	232
Y113G7A.13	1407	175
Y113G7A.14	621	409
Y113G7A.15A	829	434
Y113G7A.15B	686	373
Y113G7A.1	978	648
Y113G7A.3	2595	498
Y113G7A.4A	2822	1337
Y113G7A.4B	2797	1339
Y113G7A.5	1692	148
Y113G7A.6A	1524	22
Y113G7A.6B	1357	22
Y113G7A.6C	1476	960
Y113G7A.8A	1872	196
Y113G7A.8B	1881	196
Y113G7A.9A	997	62
Y113G7B.11	663	113
Y113G7B.12	3156	80
Y113G7B.15	1089	431
Y113G7B.16	1624	1133
Y113G7B.17.1	1286	863
Y113G7B.17.2	1174	863
Y113G7B.18A.1	2057	1583
Y113G7B.18A.2	2208	1583
Y113G7B.18A.3	2058	1583
Y113G7B.18B.1	2066	1592
Y113G7B.18B.2	2217	1592
Y113G7B.18B.3	2067	1592
Y113G7B.1A	708	43
Y113G7B.1B	999	43
Y113G7B.23A	3008	103
Y113G7B.23B.1	2983	78
Y113G7B.23B.2	2983	78
Y113G7B.23C	2403	103
Y113G7B.24A	1166	243
Y113G7B.24B.1	1067	151
Y113G7B.24B.2	1077	155
Y113G7B.24C	855	110
Y113G7B.27A	531	320

Y113G7B.27B	800	545
Y113G7B.29	523	222
Y113G7B.2	996	684
Y113G7B.3	979	31
Y113G7B.4	1044	48
Y113G7B.5A	1048	104
Y113G7B.5B	1159	104
Y113G7B.6	930	705
Y113G7B.7	1041	56
Y113G7B.8	838	140
Y113G7B.9	1240	1038
Y113G7C.1	4530	2908
Y116A8A.4	1326	609
Y116A8A.8	1026	37
Y116A8A.9A.1	1655	1186
Y116A8A.9A.2	1677	1208
Y116A8A.9A.3	1590	1186
Y116A8A.9B.1	1688	1219
Y116A8A.9B.2	1623	1219
Y116A8A.9C.1	1082	592
Y116A8A.9C.2	1104	614
Y116A8A.9C.3	1017	592
Y116A8B.5	1323	1238
Y116A8C.10A	1181	125
Y116A8C.10B.1	1273	135
Y116A8C.10B	270	38
Y116A8C.10B.2	941	537
Y116A8C.12	615	136
Y116A8C.13A	2566	159
Y116A8C.13B	2566	160
Y116A8C.14	2586	629
Y116A8C.16A	4017	1316
Y116A8C.16B	798	171
Y116A8C.16C	4023	1322
Y116A8C.16D	753	155
Y116A8C.17	812	467
Y116A8C.18	1313	1068
Y116A8C.19	731	344
Y116A8C.1	987	866
Y116A8C.20	611	476
Y116A8C.21	855	537
Y116A8C.22	937	67
Y116A8C.23	874	529
Y116A8C.25	927	379

Y116A8C.26A	2972	2316
Y116A8C.26C	1665	1009
Y116A8C.27A	931	16
Y116A8C.27B.1	949	34
Y116A8C.27B.2	911	22
Y116A8C.28B	555	290
Y116A8C.28C	923	173
Y116A8C.28D	1060	319
Y116A8C.28E.1	750	18
Y116A8C.28E.2	270	135
Y116A8C.29	311	7
Y116A8C.30A	589	307
Y116A8C.30B	143	33
Y116A8C.30C	567	346
Y116A8C.32	2429	101
Y116A8C.33	2177	18
Y116A8C.34A.1	1052	204
Y116A8C.34A.2	1061	213
Y116A8C.34B	388	45
Y116A8C.3	502	81
Y116A8C.35	1048	107
Y116A8C.36C.1	2086	607
Y116A8C.36C.2	2202	607
Y116A8C.38B	1641	1426
Y116A8C.40	1047	385
Y116A8C.4.1	2196	242
Y116A8C.42	676	44
Y116A8C.466	150	76
Y116A8C.468	150	16
Y116A8C.49	300	54
Y116A8C.5	2038	317
Y116A8C.9	1324	982
Y116F11A.1	859	616
Y116F11A.3	360	143
Y116F11A.6	387	103
Y116F11B.12A.1	2191	1700
Y116F11B.12A.2	2060	1569
Y116F11B.12B.1	1940	408
Y116F11B.12B.2	1809	277
Y116F11B.12B.3	1664	408
Y116F11B.12C.1	1754	408
Y116F11B.12C.2	1623	277
Y116F11B.1	366	113
Y116F11B.13	702	23

Y116F11B.14	801	346
Y116F11B.17	334	123
Y116F11B.2	1212	206
Y116F11B.25	161	5
Y116F11B.3	3285	1857
Y116F11B.6	1068	285
Y116F11B.7	1423	1235
Y116F11B.8	1102	821
Y116F11B.9A	1545	160
Y116F11B.9B	1765	1618
Y119C1A.1	1341	511
Y119C1B.10A	1043	457
Y119C1B.10B	1038	632
Y119C1B.12	501	304
Y119C1B.3	1435	140
Y119C1B.4	991	538
Y119C1B.5	2425	2159
Y119C1B.6	243	10
Y119C1B.8A	2579	2362
Y119C1B.8B	2298	1985
Y119C1B.9	1255	88
Y119D3A.1	1208	95
Y119D3A.3	933	40
Y119D3A.4	933	16
Y119D3B.10	607	342
Y119D3B.11.1	1898	417
Y119D3B.11.2	1908	427
Y119D3B.12A.1	1265	1070
Y119D3B.12A.2	1185	44
Y119D3B.12A.3	1460	44
Y119D3B.12B	781	657
Y119D3B.13	826	217
Y119D3B.14	2313	1744
Y119D3B.15	566	51
Y119D3B.16	1083	330
Y119D3B.17	2010	80
Y119D3B.18	756	547
Y119D3B.21	336	49
Y119D3B.22	810	2
Y119D3B.23	142	39
Y119D3B.4	273	55
Y119D3B.6	859	603
Y119D3B.7	936	670
Y119D3B.8	1021	74

Y119D3B.9	762	29
Y11D7A.10A	376	78
Y11D7A.10B	386	94
Y11D7A.10C	299	7
Y11D7A.10D	350	58
Y11D7A.11	1015	215
Y11D7A.12A	1852	26
Y11D7A.12B	1843	26
Y11D7A.12C	1850	241
Y11D7A.13	1263	285
Y11D7A.14	4582	3754
Y11D7A.19	700	279
Y11D7A.3A	1636	1189
Y11D7A.3B	1607	1160
Y11D7A.4	747	15
Y11D7A.7	805	65
Y11D7A.8	1489	634
Y11D7A.9	894	656
Y12A6A.1	1257	105
Y12A6A.2	688	81
Y14H12A.1	501	335
Y14H12A.2	494	188
Y14H12B.1A	969	446
Y14H12B.1B	836	313
Y14H12B.1C	594	134
Y14H12B.2	1415	297
Y15E3A.15	294	169
Y15E3A.1A.1	1863	610
Y15E3A.1A.2	1860	611
Y15E3A.1A.3	1860	610
Y15E3A.1B.1	1489	250
Y15E3A.1B.2	1860	611
Y15E3A.1B.3	1841	591
Y15E3A.2	659	170
Y15E3A.3	1485	403
Y15E3A.4	1707	618
Y15E3A.5.1	892	99
Y15E3A.5.2	948	155
Y16B4A.1	2048	778
Y16B4A.2	6642	1331
Y16B4A.3	150	56
Y16B4A.4	134	53
Y17D7A.1	1245	389
Y17D7A.3A	1289	373

Y17D7A.3B	1435	373
Y17D7A.4	1505	367
Y17D7B.1	1300	240
Y17D7B.2	750	442
Y17D7B.4.1	694	149
Y17D7B.4.2	542	151
Y17D7B.4.3	578	33
Y17D7B.6	852	557
Y17D7B.7	360	165
Y17D7B.8	873	556
Y17D7C.10	292	121
Y17D7C.1A	237	114
Y17D7C.1B	481	358
Y17D7C.2	867	486
Y17D7C.9	821	39
Y17G7B.10A.1	1596	1219
Y17G7B.10A.2	1454	1077
Y17G7B.10A.3	1575	1198
Y17G7B.10A.4	1601	1219
Y17G7B.10A.5	1508	1219
Y17G7B.10A.6	1725	1348
Y17G7B.10A.7	1724	1347
Y17G7B.10A.8	1556	1179
Y17G7B.10A.9	1629	1252
Y17G7B.10B.1	1727	1350
Y17G7B.10B.2	1732	1350
Y17G7B.10B.3	1639	1350
Y17G7B.11	1357	947
Y17G7B.12.1	905	639
Y17G7B.12.2	1009	743
Y17G7B.13	2103	623
Y17G7B.14	1095	419
Y17G7B.15A	2713	533
Y17G7B.15B	2461	1534
Y17G7B.17.1	1222	427
Y17G7B.17.2	1121	427
Y17G7B.18A	1754	830
Y17G7B.18B	1156	839
Y17G7B.19	2049	1035
Y17G7B.20A	1716	554
Y17G7B.20B	1716	554
Y17G7B.20C.1	1572	353
Y17G7B.20C.2	1773	554
Y17G7B.20D	1289	127

Y17G7B.20E	1346	127
Y17G7B.21A	681	264
Y17G7B.21B	445	259
Y17G7B.22	681	43
Y17G7B.23A	798	651
Y17G7B.23B	399	252
Y17G7B.2A	2124	45
Y17G7B.2B	2179	94
Y17G7B.2C	1800	45
Y17G7B.3	1782	290
Y17G7B.4	1231	659
Y17G7B.5A	2826	2213
Y17G7B.5B	771	217
Y17G7B.6A	1287	266
Y17G7B.6B	1064	43
Y17G7B.6C	854	592
Y17G7B.6D	809	547
Y17G7B.7	1174	347
Y17G7B.8	1070	638
Y17G7B.9	1600	219
Y17G9A.1	1058	121
Y17G9A.2	790	13
Y17G9A.5	1038	259
Y17G9A.7A	1026	453
Y17G9A.7B	741	168
Y17G9A.86	178	27
Y17G9B.1	1477	1219
Y17G9B.11A	285	145
Y17G9B.11B	288	145
Y17G9B.3	1557	616
Y17G9B.4A	923	267
Y17G9B.4B	841	368
Y17G9B.5	1110	349
Y17G9B.8	982	616
Y17G9B.9	1298	445
Y18D10A.10	726	193
Y18D10A.11	1110	359
Y18D10A.12	687	160
Y18D10A.13	7773	3908
Y18D10A.1	5207	1566
Y18D10A.17	1614	842
Y18D10A.20	699	132
Y18D10A.21	928	23
Y18D10A.22	1002	224

Y18D10A.23	1537	1220
Y18D10A.24	600	418
Y18D10A.25	1081	624
Y18D10A.26	825	65
Y18D10A.2	696	249
Y18D10A.3	1047	468
Y18D10A.4	477	296
Y18D10A.5	2132	440
Y18D10A.6A	2780	1052
Y18D10A.6B	2672	944
Y18D10A.7A	2799	2333
Y18D10A.7B	2709	1330
Y18D10A.7C	2811	2333
Y18D10A.8	2006	1090
Y18D10A.9	1140	463
Y18H1A.10	2392	85
Y18H1A.11A.1	883	169
Y18H1A.11A.2	880	169
Y18H1A.11B	585	153
Y18H1A.11C.1	819	105
Y18H1A.11C.2	816	105
Y18H1A.11D	417	318
Y18H1A.12A	972	595
Y18H1A.12B	757	380
Y18H1A.13	1031	131
Y18H1A.14	1404	736
Y18H1A.15	1967	1502
Y18H1A.2	955	518
Y18H1A.3A	4137	3597
Y18H1A.3B	2211	1671
Y18H1A.3C	2607	2067
Y18H1A.3D	3264	2724
Y18H1A.3E	4281	3741
Y18H1A.4.1	838	421
Y18H1A.4.2	955	538
Y18H1A.6A	2246	1185
Y18H1A.6B	1330	269
Y18H1A.6C	1861	800
Y18H1A.6D	482	181
Y18H1A.7A	1339	117
Y18H1A.7B	709	359
Y18H1A.8A	568	197
Y18H1A.8B	195	12
Y18H1A.9	1808	491

Y19D10A.10	2112	1778
Y19D10A.11	1467	1022
Y19D10A.12	1635	840
Y19D10A.13	1050	470
Y19D10A.4	1428	1209
Y19D10A.5	1437	1119
Y19D10A.8	1215	1017
Y19D10B.3	1131	985
Y19D10B.4	2619	2226
Y19D10B.5	1728	602
Y19D10B.6	1647	1269
Y19D10B.7	483	255
Y19D10B.8	858	244
Y19D2B.1	258	29
Y1A5A.1	689	245
Y1A5A.2	252	19
Y1B5A.1	273	72
Y1H11.2	764	95
Y20C6A.1A	3050	1007
Y20C6A.1B	3197	994
Y20F4.2	2106	890
Y20F4.3	2787	1400
Y20F4.4	2389	1931
Y20F4.8	1038	341
Y22D7AL.10.1	556	7
Y22D7AL.10.2	580	32
Y22D7AL.11	1554	658
Y22D7AL.13	186	62
Y22D7AL.1	372	112
Y22D7AL.14	1216	923
Y22D7AL.15	498	264
Y22D7AL.16	822	57
Y22D7AL.3	273	160
Y22D7AL.4	1363	436
Y22D7AL.5A.1	2230	806
Y22D7AL.5A.2	2238	814
Y22D7AL.5B.1	1672	129
Y22D7AL.5B.2	1680	137
Y22D7AL.5C	1767	343
Y22D7AL.6A	451	273
Y22D7AL.6B	602	120
Y22D7AL.7	1251	83
Y22D7AL.8	1323	921
Y22D7AL.9	2619	1009

Y22D7AR.10	290	28
Y22D7AR.12	3684	2203
Y22D7AR.13	1522	873
Y22D7AR.14	1008	104
Y22D7AR.2	4120	3528
Y22D7AR.3	198	35
Y22D7AR.5	834	477
Y22D7AR.6.1	1276	289
Y22D7AR.6.2	1254	267
Y22D7AR.7	2304	1417
Y22D7AR.8	1020	729
Y22F5A.11	195	58
Y22F5A.1	1388	814
Y22F5A.12A	280	67
Y22F5A.12B	228	24
Y22F5A.2	1041	466
Y22F5A.3A	1007	549
Y22F5A.3B	1058	600
Y22F5A.4.1	1030	439
Y22F5A.4.2	1107	516
Y22F5A.5	924	406
Y22F5A.6	921	535
Y23B4A.1	382	70
Y23B4A.2	613	111
Y23H5A.2	668	336
Y23H5A.3	1053	178
Y23H5A.4	1219	18
Y23H5A.5A	2578	235
Y23H5A.5B	2653	235
Y23H5A.5C	2104	235
Y23H5A.5D.1	2620	1641
Y23H5A.5D.2	2602	1641
Y23H5A.7A	2989	440
Y23H5A.7B	2986	440
Y23H5A.8	1002	699
Y23H5B.10	144	24
Y23H5B.12	896	542
Y23H5B.1	680	327
Y23H5B.2	420	7
Y23H5B.3	625	193
Y23H5B.4	1491	680
Y23H5B.5	2239	660
Y23H5B.6	2329	1129
Y23H5B.7A	753	191

Y23H5B.7B	594	191
Y23H5B.7C.1	472	264
Y23H5B.7C.2	797	602
Y23H5B.8	594	274
Y23H5B.9	216	57
Y24D9A.14	234	7
Y24D9A.1A	3301	378
Y24D9A.1B	1863	378
Y24D9A.2	2024	14
Y24D9A.4A	906	297
Y24D9A.4C	846	338
Y24D9A.4D	883	691
Y24D9A.5	849	457
Y24D9A.6	474	305
Y24D9A.7	234	11
Y24D9A.8A.1	1082	780
Y24D9A.8A.2	1103	801
Y24D9A.8B.1	1110	810
Y24D9A.8B.2	949	649
Y24D9A.8B.3	1010	710
Y24D9B.1	1789	779
Y24F12A.1A	1498	667
Y24F12A.1B	1492	661
Y24F12A.2	1093	738
Y25C1A.10	1227	946
Y25C1A.1	1817	1359
Y25C1A.12	948	357
Y25C1A.13	1021	368
Y25C1A.14	771	119
Y25C1A.2	589	43
Y25C1A.3	1818	1615
Y25C1A.4	1602	26
Y25C1A.5	3217	450
Y25C1A.6	716	120
Y25C1A.7A.1	875	709
Y25C1A.7A.2	893	727
Y25C1A.7A.3	887	721
Y25C1A.7B	883	717
Y25C1A.7C.1	1495	897
Y25C1A.7C.2	1513	915
Y25C1A.7C.3	1507	909
Y25C1A.8A	1348	888
Y25C1A.8B	971	511
Y25C1A.9	954	499

Y26D4A.21	485	293
Y26D4A.2	1645	412
Y26D4A.3	537	232
Y26D4A.4A	1147	905
Y26D4A.4B	1190	948
Y26D4A.5B	561	63
Y26D4A.6	609	85
Y26D4A.8	1614	1028
Y26E6A.1	1913	475
Y26E6A.2	1541	871
Y26E6A.3	826	359
Y26G10.4	1023	448
Y26G10.7	312	117
Y27F2A.10	765	505
Y27F2A.2	993	857
Y27F2A.3A	1206	409
Y27F2A.3B	1170	409
Y27F2A.4	975	219
Y27F2A.5	1098	912
Y27F2A.6	1525	679
Y27F2A.7	969	853
Y2H9A.1	3117	2276
Y2H9A.2	1020	93
Y2H9A.3	907	86
Y2H9A.4A	1803	1472
Y2H9A.4B	2032	1701
Y2H9A.4C	1794	1463
Y32B12A.1	574	224
Y32B12A.3	654	411
Y32B12A.4	225	49
Y32B12A.5	330	210
Y32B12B.1A	558	16
Y32B12B.2A	2660	1865
Y32B12B.2B	1076	281
Y32B12B.2C	2447	1863
Y32B12B.3	852	139
Y32B12B.4A	4768	2512
Y32B12B.4B	1390	1126
Y32B12B.4C	1039	775
Y32B12B.6	1112	121
Y32B12B.7	975	574
Y32B12B.8	361	122
Y32B12C.2A	1056	242
Y32B12C.2B	1171	242

Y32B12C.3	1671	616
Y32F6A.1.1	1195	269
Y32F6A.1.2	1252	326
Y32F6A.2	2022	1833
Y32F6A.3.1	2954	1475
Y32F6A.3.2	2944	1465
Y32F6A.4	1821	220
Y32F6A.5A.1	1397	586
Y32F6A.5A.2	1764	953
Y32F6A.5B.1	1338	586
Y32F6A.5B.2	1705	953
Y32F6B.1	2610	1790
Y32F6B.2	1971	1700
Y32F6B.3	953	311
Y32G9A.10	255	87
Y32G9A.12	396	56
Y32G9A.13	286	144
Y32G9A.1	630	86
Y32G9A.2	330	83
Y32G9A.3	429	313
Y32G9A.4	1204	736
Y32G9A.5	828	4
Y32G9A.6	2439	1557
Y32G9A.8	1418	181
Y32G9B.1A	1348	741
Y32G9B.1B	1431	824
Y32H12A.1	1134	294
Y32H12A.2A.1	1971	1567
Y32H12A.2A.2	2000	1596
Y32H12A.2A.3	2052	1648
Y32H12A.2B.1	1977	1573
Y32H12A.2B.2	2006	1602
Y32H12A.2B.3	2058	1654
Y32H12A.3	1033	539
Y32H12A.4.1	715	200
Y32H12A.4.2	752	237
Y32H12A.5	2224	376
Y32H12A.6	985	157
Y32H12A.7.1	1895	218
Y32H12A.7.2	1903	226
Y32H12A.8	11774	6950
Y34B4A.10.1	1685	1120
Y34B4A.10.2	1737	1172
Y34B4A.14	133	35

Y34B4A.15	129	29
Y34B4A.17	135	34
Y34B4A.18	130	3
Y34B4A.2	1207	114
Y34B4A.3	1313	315
Y34B4A.4A	2798	1302
Y34B4A.4B	2876	1302
Y34B4A.5	833	107
Y34B4A.6	919	595
Y34B4A.7.1	1400	205
Y34B4A.7.2	1375	180
Y34B4A.8A	2294	1472
Y34B4A.8B	2024	1472
Y34B4A.9	789	310
Y34D9A.10	1764	303
Y34D9A.1.1	1334	214
Y34D9A.1.2	1376	256
Y34D9A.2	1486	832
Y34D9A.3A	2458	766
Y34D9A.3B	2434	742
Y34D9A.3E	2449	766
Y34D9A.3F	2425	742
Y34D9A.4	1791	140
Y34D9A.6	415	27
Y34D9A.7A	1305	699
Y34D9A.7B	960	354
Y34D9A.8A	387	136
Y34D9A.8B	540	286
Y34D9A.8C	303	52
Y34D9B.1A	1737	136
Y34D9B.1B	1749	136
Y34F4.1A	272	113
Y34F4.1B	638	353
Y34F4.2A	632	113
Y34F4.2B	598	88
Y34F4.3	409	259
Y34F4.4	776	243
Y34F4.5A	1121	297
Y34F4.5B	536	37
Y34F4.6A	530	59
Y34F4.6B	611	353
Y36E3A.1	1102	864
Y37A1A.2	1526	1007
Y37A1A.3	1664	1300

Y37A1A.4B	366	97
Y37A1A.4C	438	169
Y37A1A.4D	318	49
Y37A1B.10	1194	1043
Y37A1B.11A	2130	1343
Y37A1B.11B	2268	1481
Y37A1B.15	915	754
Y37A1B.17A	5064	966
Y37A1B.17B	4412	966
Y37A1B.17C	4645	547
Y37A1B.17D	2305	1461
Y37A1B.1A	3964	2277
Y37A1B.1B.1	2087	1937
Y37A1B.1B.2	2036	1937
Y37A1B.1C	2157	508
Y37A1B.2A	499	47
Y37A1B.2B	2190	538
Y37A1B.2C	2042	390
Y37A1B.2D	2036	390
Y37A1B.2E.2	810	172
Y37A1B.2F	1855	893
Y37A1B.2G.1	2019	368
Y37A1B.2G.2	1671	18
Y37A1B.330	448	44
Y37A1B.332	196	55
Y37A1B.333	298	177
Y37A1B.335	149	64
Y37A1B.4	813	686
Y37A1B.5A	1481	243
Y37A1B.7	645	214
Y37A1B.8	1428	763
Y37A1B.9	1563	1220
Y37A1C.1A	2919	2787
Y37A1C.1B	789	211
Y37A1C.1C	4049	3041
Y37A1C.1D	3108	2100
Y37A1C.1E	2063	1055
Y37A1C.1F	3977	2969
Y37A1C.1G	4124	3116
Y37A1C.1H	3983	2975
Y37B11A.1	2370	177
Y37B11A.2	3469	1564
Y37B11A.3	1020	864
Y37D8A.10	713	64

Y37D8A.11A	2161	1123
Y37D8A.11B	1882	844
Y37D8A.13	3412	2659
Y37D8A.14	736	335
Y37D8A.15	909	380
Y37D8A.16	629	217
Y37D8A.1	699	222
Y37D8A.17	833	65
Y37D8A.18	574	306
Y37D8A.19	474	173
Y37D8A.21	833	367
Y37D8A.2	1872	156
Y37D8A.22	1676	1213
Y37D8A.23A	1726	571
Y37D8A.23B	1668	571
Y37D8A.23C	1515	368
Y37D8A.25	525	240
Y37D8A.3	1058	776
Y37D8A.4	934	30
Y37D8A.5	1143	258
Y37D8A.6	541	209
Y37D8A.8	240	35
Y37D8A.9A	1258	457
Y37D8A.9B	1264	457
Y37E11AL.1	1312	963
Y37E11AL.2A	696	298
Y37E11AL.2B	437	39
Y37E11AL.3A.1	1094	733
Y37E11AL.3A.2	1113	752
Y37E11AL.3B	441	29
Y37E11AL.6A	3228	2620
Y37E11AL.6B	3270	2662
Y37E11AL.6C	3099	2491
Y37E11AL.7A	1199	953
Y37E11AL.7B	1098	32
Y37E11AL.7C	277	46
Y37E11AL.8	2994	1652
Y37E11AL.9	419	121
Y37E11AM.1A	3354	1105
Y37E11AM.1B	2642	393
Y37E11AM.2A.1	1088	38
Y37E11AM.2A.2	1139	89
Y37E11AM.2B.1	1027	38
Y37E11AM.2B.2	1078	89

Y37E11AM.3A	743	275
Y37E11AM.3B	1738	103
Y37E11AR.1	1580	721
Y37E11AR.2	1794	1204
Y37E11AR.3A	1262	1004
Y37E11AR.3B	1184	20
Y37E11AR.3C	1229	73
Y37E11AR.4	1151	795
Y37E11AR.5A	1675	1055
Y37E11AR.5B	1675	1055
Y37E11AR.6A	1086	696
Y37E11AR.6B	765	375
Y37E11AR.7	1452	716
Y37E11B.10A	1650	234
Y37E11B.10B.1	1692	234
Y37E11B.10B.2	1821	363
Y37E11B.1A.1	300	122
Y37E11B.1A.2	480	243
Y37E11B.1B	818	543
Y37E11B.2.1	686	227
Y37E11B.2.2	853	394
Y37E11B.2.3	715	256
Y37E11B.3A	584	370
Y37E11B.3B	337	123
Y37E11B.4	3698	193
Y37E11B.5	1980	1018
Y37E11B.6	536	138
Y37E11B.7A	432	184
Y37E11B.7B	364	116
Y37E11C.1A	3660	781
Y37E11C.1B	2152	191
Y37E3.10	1546	597
Y37E3.1	1352	988
Y37E3.11A	1310	821
Y37E3.11B	1331	842
Y37E3.13	1445	755
Y37E3.15A	2538	437
Y37E3.15B	1180	437
Y37E3.16.1	1671	1366
Y37E3.16.2	1691	1386
Y37E3.17A	2700	740
Y37E3.17B	2721	184
Y37E3.19	514	60
Y37E3.3	356	47

Y37E3.4.1	443	169
Y37E3.4.2	467	193
Y37E3.5A	1135	334
Y37E3.5B	1126	334
Y37E3.7.1	441	167
Y37E3.7.2	498	179
Y37E3.8A	483	117
Y37E3.8B.1	313	125
Y37E3.8B.2	460	84
Y37E3.9	1078	493
Y37F4.1	816	447
Y37F4.4	291	135
Y37F4.5.1	1456	344
Y37F4.5.2	1455	343
Y37F4.6A	1473	700
Y37F4.6B	1884	1111
Y37F4.7	606	310
Y37F4.8	468	87
Y37H2A.10A	438	97
Y37H2A.10B	317	29
Y37H2A.11	477	204
Y37H2A.12A	806	301
Y37H2A.12B	701	319
Y37H2A.12C	728	399
Y37H2A.13	537	312
Y37H2A.14	690	450
Y37H2A.18	843	16
Y37H2A.1A	1607	1034
Y37H2A.1B	1376	803
Y37H2A.5A	1313	199
Y37H2A.5B	1326	212
Y37H2A.6	1055	44
Y37H2A.7	897	280
Y37H2C.1	2157	126
Y37H2C.3	1323	377
Y37H2C.4	852	459
Y37H9A.1A	1648	1070
Y37H9A.1B	1600	1022
Y37H9A.2	981	839
Y37H9A.3	2379	848
Y37H9A.6	530	194
Y38A10A.10	150	35
Y38A10A.1	1020	139
Y38A10A.11	352	136

Y38A10A.2	2012	292
Y38A10A.3	1071	484
Y38A10A.4	1232	189
Y38A10A.5.1	1400	913
Y38A10A.5.2	1411	924
Y38A10A.6	1718	1305
Y38A10A.7	687	482
Y38A10A.8	150	40
Y38A8.1	827	562
Y38A8.2	828	55
Y38A8.3	3102	773
Y38C1AA.11	801	7
Y38C1AA.12A	1802	929
Y38C1AA.12B	811	289
Y38C1AA.13	440	187
Y38C1AA.14A	496	153
Y38C1AA.16	141	61
Y38C1AA.19	1879	506
Y38C1AA.1A	1573	91
Y38C1AA.1B	670	81
Y38C1AA.1C	1081	91
Y38C1AA.1D	111	15
Y38C1AA.2	1683	120
Y38C1AA.3A	1078	177
Y38C1AA.3B	1099	40
Y38C1AA.5A	1968	105
Y38C1AA.5B	1974	105
Y38C1AA.5C	1152	105
Y38C1AA.6	1442	394
Y38C1AA.7	590	114
Y38C1AA.9	598	200
Y38C1BA.1	848	17
Y38C1BA.2A	1348	383
Y38C1BA.2B	1564	114
Y38C1BA.3.1	1149	793
Y38C1BA.3.2	1226	793
Y38C1BA.4	204	6
Y38C9A.1	4524	4093
Y38C9A.2.1	2299	1127
Y38C9A.2.2	2476	1304
Y38C9B.1	1616	138
Y38C9B.2	987	184
Y38C9B.3	381	95
Y38E10A.10	1036	570

Y38E10A.11	460	279
Y38E10A.12	273	126
Y38E10A.1	291	13
Y38E10A.15	330	162
Y38E10A.16	396	138
Y38E10A.17	1930	395
Y38E10A.18	1074	136
Y38E10A.19	654	285
Y38E10A.20	593	52
Y38E10A.21A	651	145
Y38E10A.21B	607	101
Y38E10A.22A	1416	85
Y38E10A.22B	1292	221
Y38E10A.22C	548	85
Y38E10A.24.1	294	123
Y38E10A.24.2	284	113
Y38E10A.25	222	114
Y38E10A.26	216	12
Y38E10A.28	1216	269
Y38E10A.29	228	82
Y38E10A.32	130	8
Y38E10A.3	773	642
Y38E10A.4	1278	403
Y38E10A.5	1292	432
Y38E10A.6A	4232	2346
Y38E10A.6B	4238	2352
Y38E10A.7	905	124
Y38E10A.8	979	134
Y38E10A.9	272	114
Y38F1A.10A	2893	43
Y38F1A.10B	1287	252
Y38F1A.10C	2950	794
Y38F1A.10D	1325	114
Y38F1A.1	955	73
Y38F1A.2	1007	359
Y38F1A.3	2951	142
Y38F1A.4	1029	610
Y38F1A.5.1	1782	802
Y38F1A.5.2	2013	110
Y38F1A.6.1	1511	234
Y38F1A.6.2	1676	399
Y38F1A.6.3	1606	329
Y38F1A.6.4	1621	344
Y38F1A.6.5	1647	370

Y38F1A.6.6	1605	328
Y38F1A.6.7	1569	292
Y38F1A.7	573	95
Y38F1A.8	1076	318
Y38F1A.9	379	83
Y38F2AL.1	1152	698
Y38F2AL.12	173	3
Y38F2AL.2	839	198
Y38F2AL.3A	1619	568
Y38F2AL.3B	592	106
Y38F2AL.4	1375	166
Y38F2AL.5	920	28
Y38F2AR.10	569	394
Y38F2AR.12A	3846	2255
Y38F2AR.12B	1897	1283
Y38F2AR.12C	2904	1313
Y38F2AR.17	294	56
Y38F2AR.1A	1834	1051
Y38F2AR.1B	727	270
Y38F2AR.2	813	84
Y38F2AR.3A	975	595
Y38F2AR.3B	996	616
Y38F2AR.3C	698	318
Y38F2AR.3D	719	339
Y38F2AR.5A	4134	3884
Y38F2AR.5B	3157	1455
Y38F2AR.7	2376	2061
Y38F2AR.9	426	30
Y38H6A.1	588	420
Y38H6A.3	744	175
Y38H6A.5A	486	79
Y38H6A.5B	443	75
Y38H6C.10	1040	95
Y38H6C.11	1144	96
Y38H6C.12	1005	776
Y38H6C.13	945	210
Y38H6C.14	2709	229
Y38H6C.15	595	348
Y38H6C.16	646	513
Y38H6C.17	1441	1218
Y38H6C.19	664	189
Y38H6C.1A.1	406	35
Y38H6C.1A.2	383	19
Y38H6C.1B.10	396	155

Y38H6C.1B.1	383	19
Y38H6C.1B.2	381	16
Y38H6C.1B.3	384	19
Y38H6C.1B.4	377	18
Y38H6C.1B.5	397	35
Y38H6C.1B.6	357	1
Y38H6C.1B.7	382	19
Y38H6C.1B.9	377	17
Y38H6C.20	2221	177
Y38H6C.21	837	583
Y38H6C.22	381	67
Y38H6C.23.1	459	116
Y38H6C.23.2	444	116
Y38H6C.25	546	225
Y38H6C.2	933	29
Y38H6C.4	223	45
Y38H6C.5	2088	1120
Y38H6C.8	536	14
Y38H6C.9A	1055	592
Y38H6C.9B	829	492
Y38H6C.9C	776	439
Y38H6C.9D	979	642
Y38H8A.12	413	54
Y38H8A.1	920	590
Y38H8A.2A	768	121
Y38H8A.2B	264	50
Y38H8A.3	1037	73
Y38H8A.4	1088	742
Y38H8A.5	671	463
Y38H8A.7	434	192
Y39A1A.11	891	111
Y39A1A.12	2128	1054
Y39A1A.13	1209	1019
Y39A1A.15A	3906	877
Y39A1A.15B	3233	204
Y39A1A.15C	3149	1169
Y39A1A.15D	788	229
Y39A1A.16	1169	682
Y39A1A.17	1158	52
Y39A1A.18	765	400
Y39A1A.19	1663	425
Y39A1A.1A	1234	973
Y39A1A.1B	1518	973
Y39A1A.1C	1134	873

Y39A1A.1D	1009	748
Y39A1A.20	363	234
Y39A1A.21A	783	200
Y39A1A.21B	386	283
Y39A1A.22	2133	610
Y39A1A.23.1	1731	399
Y39A1A.23.2	1687	355
Y39A1A.24	773	376
Y39A1A.2	650	419
Y39A1A.27	255	42
Y39A1A.3	759	265
Y39A1A.5	1911	314
Y39A1A.6	816	419
Y39A1A.7	885	479
Y39A1A.8	893	484
Y39A1A.9	1945	302
Y39A1B.1	1158	244
Y39A1B.2A	3012	848
Y39A1B.2B	2175	848
Y39A1B.2C	2157	848
Y39A1B.3	4915	1930
Y39A1B.8	147	74
Y39A1C.1	426	60
Y39A1C.2	3358	2607
Y39A1C.3.1	1183	104
Y39A1C.3.2	1207	128
Y39A1C.4	2101	1522
Y39A3A.2	795	228
Y39A3A.3	870	570
Y39A3A.8	145	53
Y39A3B.1	1116	412
Y39A3B.2	1280	981
Y39A3B.3	648	441
Y39A3B.4	972	387
Y39A3B.5A	1749	1266
Y39A3B.5B	1978	1402
Y39A3B.5C	1416	933
Y39A3B.5D	1864	1402
Y39A3B.5E	1509	933
Y39A3B.5F	1395	933
Y39A3B.6	150	16
Y39A3B.7	409	107
Y39A3CL.1	2180	246
Y39A3CL.2	3882	2346

Y39A3CL.3	221	52
Y39A3CL.4A	1400	859
Y39A3CL.4B	1315	774
Y39A3CL.4C	1326	785
Y39A3CL.5A	2312	1414
Y39A3CL.5B	2282	1414
Y39A3CL.6	1021	420
Y39A3CL.7A	1508	241
Y39A3CL.7B	1280	906
Y39A3CR.1A	865	183
Y39A3CR.3A	3040	2222
Y39A3CR.3B	1897	1079
Y39A3CR.4	397	148
Y39A3CR.5	564	293
Y39A3CR.6	1041	491
Y39A3CR.7	1369	32
Y39A3CR.8A	784	496
Y39A3CR.8B	824	496
Y39B6A.11	1145	869
Y39B6A.1	2387	188
Y39B6A.12A	1238	719
Y39B6A.12B	1244	725
Y39B6A.13	666	159
Y39B6A.14	2414	719
Y39B6A.16	929	723
Y39B6A.17A	1629	154
Y39B6A.17B	1519	154
Y39B6A.18	4059	18
Y39B6A.19A	1023	99
Y39B6A.19B	1005	514
Y39B6A.20.4	1298	964
Y39B6A.22	1173	759
Y39B6A.23	1188	802
Y39B6A.24	1216	741
Y39B6A.25	1747	762
Y39B6A.27	1451	568
Y39B6A.29A	1374	1032
Y39B6A.29B	1098	756
Y39B6A.2A	1812	1082
Y39B6A.30	4288	57
Y39B6A.33	1834	931
Y39B6A.34A	498	37
Y39B6A.34B	395	213
Y39B6A.35	1222	489

Y39B6A.36	892	569
Y39B6A.38	1328	931
Y39B6A.39A	1612	473
Y39B6A.3A	543	62
Y39B6A.3B	527	45
Y39B6A.40	652	72
Y39B6A.41	1601	146
Y39B6A.42	526	241
Y39B6A.43A	2345	569
Y39B6A.43B	2318	542
Y39B6A.43C	1883	107
Y39B6A.46	979	8
Y39B6A.47A	1251	145
Y39B6A.47B	1079	191
Y39B6A.48A	1110	529
Y39B6A.48B	869	288
Y39B6A.48C	816	288
Y39B6A.5A	412	224
Y39B6A.5B	229	140
Y39B6A.6	1052	338
Y39B6A.69	150	49
Y39B6A.7	1298	226
Y39B6A.78	146	24
Y39B6A.8	1374	308
Y39B6A.9	757	469
Y39C12A.1	1232	342
Y39C12A.5	1014	394
Y39C12A.6	1041	291
Y39C12A.7	1049	801
Y39C12A.8	1178	647
Y39C12A.9	820	287
Y39D8A.1A	1501	434
Y39D8A.1B	584	430
Y39D8A.1C	604	151
Y39D8A.1D	1516	449
Y39D8B.1	1759	913
Y39D8B.2	2469	1646
Y39D8B.3	2196	1566
Y39D8B.4	543	342
Y39D8C.1	5545	4945
Y39E4A.1	445	294
Y39E4A.2A	1414	206
Y39E4A.2B	1468	232
Y39E4A.3A	1589	777

Y39E4A.3B	1693	881
Y39E4B.10	1746	188
Y39E4B.1.1	2230	64
Y39E4B.11	828	360
Y39E4B.1.2	2472	306
Y39E4B.12A.1	2403	1214
Y39E4B.12A.2	2345	1156
Y39E4B.12B.1	2394	1214
Y39E4B.12B.2	2336	1156
Y39E4B.12C.1	2401	1214
Y39E4B.12C.2	2343	1156
Y39E4B.2	1617	425
Y39E4B.3A.1	1451	527
Y39E4B.3A.2	1650	726
Y39E4B.3B.1	1480	527
Y39E4B.3B.2	1679	726
Y39E4B.3C.1	1172	527
Y39E4B.3C.2	1371	726
Y39E4B.4	680	176
Y39E4B.5	1697	816
Y39E4B.6A.1	1004	717
Y39E4B.6A.2	1388	717
Y39E4B.6B	2070	386
Y39E4B.7	1727	230
Y39E4B.8	965	570
Y39E4B.9A	1052	905
Y39E4B.9B	1194	905
Y39E4B.9C	1203	914
Y39E4B.9D	1288	914
Y39F10A.1	574	8
Y39F10A.2	954	178
Y39F10A.3	979	179
Y39F10B.1A	1766	155
Y39F10B.1B	1720	109
Y39F10C.1	825	664
Y39F10C.2	303	101
Y39F10C.3	420	96
Y39G10AL.1	563	23
Y39G10AL.3.1	1260	726
Y39G10AL.3.2	1260	98
Y39G10AR.10	2291	151
Y39G10AR.11.1	2770	2416
Y39G10AR.12A	2062	1394
Y39G10AR.12B	1511	1107

Y39G10AR.13.1	2119	193
Y39G10AR.13.2	2145	219
Y39G10AR.14.1	2615	1904
Y39G10AR.14.2	2645	1934
Y39G10AR.15	2168	1691
Y39G10AR.16	786	347
Y39G10AR.17	1737	1161
Y39G10AR.18A.1	3327	1149
Y39G10AR.18A.2	3248	1149
Y39G10AR.18B.1	2307	173
Y39G10AR.18B.2	2228	173
Y39G10AR.20	462	151
Y39G10AR.21	1484	1073
Y39G10AR.22	878	578
Y39G10AR.25	647	88
Y39G10AR.2A	2031	750
Y39G10AR.2B	2025	750
Y39G10AR.32	486	226
Y39G10AR.3	3032	478
Y39G10AR.5	2921	712
Y39G10AR.6	1654	165
Y39G10AR.7	1791	797
Y39G10AR.8	1703	1277
Y39G10AR.9A	1455	475
Y39G10AR.9B	1449	469
Y39G8B.10	488	54
Y39G8B.1A	1074	164
Y39G8B.1B	1013	743
Y39G8B.2	1275	685
Y39G8B.3	1116	225
Y39G8B.4	1119	218
Y39G8B.5	2181	1351
Y39G8B.7	583	333
Y39G8B.9	381	127
Y39G8C.1	4824	4495
Y39G8C.2	988	10
Y39G8C.3A	1925	46
Y39G8C.3B	536	170
Y39G8C.3C	327	46
Y39G8C.4	1647	396
Y39H10A.1	449	81
Y39H10A.2	2223	1950
Y39H10A.3A	1876	792
Y39H10A.3B	1732	117

Y39H10A.4	915	81
Y39H10A.5	363	162
Y39H10A.6	2245	95
Y39H10A.7A.1	1789	651
Y39H10A.7A.2	1690	651
Y39H10A.7B.1	1789	651
Y39H10A.7B.2	1646	607
Y39H10B.1	1026	285
Y39H10B.2A	786	170
Y39H10B.2B	674	371
Y39H10B.3.1	530	328
Y39H10B.3.2	619	328
Y40A1A.1	861	28
Y40A1A.4	930	59
Y40B10A.1A	565	15
Y40B10A.1B	526	198
Y40B10A.2	776	75
Y40B10A.3	948	785
Y40B10A.4	2442	1312
Y40B10A.5	960	833
Y40B10A.6	796	12
Y40B10A.7	684	14
Y40B10A.8.1	1381	847
Y40B10A.8.2	1403	847
Y40B10A.9	1352	1090
Y40B10B.1	1014	871
Y40B10B.2	1080	690
Y40B1A.1A	479	211
Y40B1A.1B	281	13
Y40B1A.3A	1903	349
Y40B1A.3B	1515	349
Y40B1A.3C	1422	256
Y40B1A.4	1305	784
Y40B1A.6	135	31
Y40B1B.5.1	913	413
Y40B1B.5.2	911	411
Y40B1B.6	2603	541
Y40B1B.8	1736	477
Y40C5A.1.1	894	30
Y40C5A.1.2	1027	163
Y40C5A.2	2397	178
Y40C5A.23	149	47
Y40C5A.3A	6882	6008
Y40C5A.3B	7023	6149

Y40C5A.3C	4071	3197
Y40C5A.3D	3465	2591
Y40C5A.3E	4110	3236
Y40C5A.3F	4251	3377
Y40C5A.3G	6534	5474
Y40C5A.3H	4398	3381
Y40C5A.3I	3306	1172
Y40C5A.3J	7068	6008
Y40C5A.3K	4398	3338
Y40C5A.3L	4437	3377
Y40C5A.3M	7209	6149
Y40C5A.3N	3318	2258
Y40C5A.3O	4290	2633
Y40C5A.3P	4350	3377
Y40C5A.3Q	4239	3179
Y40C5A.4A	1372	705
Y40C5A.4B	1370	705
Y40C5A.4C	2152	1573
Y40C7B.4	492	292
Y40D12A.1A	2119	1251
Y40D12A.1B	933	835
Y40D12A.2	1637	750
Y40D12A.3	1059	328
Y40G12A.1	822	505
Y40G12A.2	824	84
Y40H4A.1A.1	2152	188
Y40H4A.1A.2	2095	64
Y40H4A.1B	2171	62
Y40H4A.2	1036	919
Y40H7A.10	1123	853
Y40H7A.1	1020	562
Y40H7A.4A	927	611
Y40H7A.4B	933	71
Y40H7A.5	972	647
Y40H7A.6	1032	806
Y40H7A.8	882	461
Y40H7A.9	420	267
Y41C4A.10	521	87
Y41C4A.11	1250	1001
Y41C4A.12A	968	552
Y41C4A.12B	964	552
Y41C4A.13	623	200
Y41C4A.14	1007	342
Y41C4A.16	1061	88

Y41C4A.17	285	107
Y41C4A.18	360	181
Y41C4A.19	870	43
Y41C4A.21	240	142
Y41C4A.2	1669	638
Y41C4A.29	1034	834
Y41C4A.4A	1354	130
Y41C4A.4B	1207	37
Y41C4A.4C	1197	170
Y41C4A.4D	1319	137
Y41C4A.4E	1261	177
Y41C4A.4F	809	182
Y41C4A.4G	1510	492
Y41C4A.5	1223	941
Y41C4A.6	447	55
Y41C4A.7	789	584
Y41C4A.8	776	261
Y41C4A.9	1892	1161
Y41D4A.1	794	127
Y41D4A.2	915	9
Y41D4A.3	1202	936
Y41D4A.4A	2107	866
Y41D4A.4B	1752	873
Y41D4A.4C.1	2112	913
Y41D4A.4C.2	2176	977
Y41D4A.4E	1772	866
Y41D4A.5	1998	1048
Y41D4A.6A	1410	845
Y41D4A.6B	861	296
Y41D4A.6C	642	227
Y41D4A.6D	1416	845
Y41D4A.6E	867	296
Y41D4A.6F	456	35
Y41D4A.7A	1122	376
Y41D4A.7B	1077	331
Y41D4A.8A	1164	154
Y41D4A.8B	1173	154
Y41D4B.10A	867	243
Y41D4B.10B.1	825	201
Y41D4B.10B.2	790	166
Y41D4B.11A	1140	55
Y41D4B.11B	356	178
Y41D4B.12A	735	610
Y41D4B.12B	686	561

Y41D4B.13A	1096	420
Y41D4B.13B	653	174
Y41D4B.14	553	317
Y41D4B.15	1190	683
Y41D4B.16	1483	962
Y41D4B.17	1285	88
Y41D4B.1	963	784
Y41D4B.19A	1383	320
Y41D4B.19B	4292	3680
Y41D4B.19C	1282	936
Y41D4B.21A	1271	879
Y41D4B.21B	1177	785
Y41D4B.21C	1254	862
Y41D4B.21D	1177	785
Y41D4B.24	1227	718
Y41D4B.26	685	342
Y41D4B.27	1258	1055
Y41D4B.34	143	62
Y41D4B.4A	2177	549
Y41D4B.4B	2174	549
Y41D4B.5	266	113
Y41D4B.6	1225	1099
Y41D4B.7	1140	700
Y41D4B.8	1145	531
Y41E3.10A.1	1070	124
Y41E3.10A.2	1090	144
Y41E3.10B	1341	134
Y41E3.10C	750	116
Y41E3.10D	876	134
Y41E3.11A	5351	4489
Y41E3.11B	3656	2794
Y41E3.11C	2426	1564
Y41E3.11D	756	148
Y41E3.12	981	867
Y41E3.13	564	116
Y41E3.14	990	291
Y41E3.17	987	246
Y41E3.18	1478	344
Y41E3.19	1036	536
Y41E3.1A	2294	121
Y41E3.1B	1094	658
Y41E3.1C	1307	666
Y41E3.2	1002	795
Y41E3.22	418	108

Y41E3.3	1668	1413
Y41E3.461	174	22
Y41E3.4A	2495	185
Y41E3.4B.1	2276	191
Y41E3.4B.2	2246	5
Y41E3.4C	1378	1090
Y41E3.4D	764	478
Y41E3.7A	1646	208
Y41E3.7B	1529	302
Y41E3.7C.1	1396	169
Y41E3.7C.2	1624	188
Y41E3.7D	976	414
Y41E3.7E.1	1624	188
Y41E3.7E.2	1278	51
Y41E3.7E.3	1603	167
Y41E3.7F	330	206
Y41E3.7G	1663	188
Y41E3.8	640	238
Y41E3.9A	4429	2684
Y41E3.9B	2654	909
Y41E3.9C	1583	256
Y41G9A.10	725	78
Y41G9A.1	2562	1067
Y41G9A.13	194	72
Y41G9A.14	209	52
Y41G9A.15	167	67
Y41G9A.2	819	315
Y41G9A.3	1384	731
Y41G9A.4A	1697	1302
Y41G9A.4B	3178	1302
Y41G9A.4C	3046	1302
Y41G9A.5A	1406	90
Y41G9A.5B	1451	273
Y41G9A.6	1575	58
Y42A5A.11	166	76
Y42A5A.1	3495	2202
Y42A5A.2A	1975	309
Y42A5A.2B	1975	309
Y42A5A.2C.1	1943	277
Y42A5A.2C.2	1619	393
Y42A5A.3	506	302
Y42A5A.4A	1352	1160
Y42A5A.4B	1455	1263
Y42A5A.4C	1152	960

Y42G9A.1	1140	400
Y42G9A.2	424	77
Y42G9A.3A	1276	39
Y42G9A.3B	1308	39
Y42G9A.4A	2644	1397
Y42G9A.4B	2530	1283
Y42G9A.4C	2203	956
Y42G9A.4D	2365	1118
Y42G9A.6A	2218	1842
Y42G9A.6B.1	1834	1458
Y42G9A.6B.2	1967	1591
Y42H9AR.1.1	1846	1329
Y42H9AR.1.2	1907	1390
Y42H9AR.2	818	112
Y42H9AR.3A	1855	1474
Y42H9AR.3B	1861	1474
Y42H9AR.4	2438	959
Y42H9AR.5	735	32
Y42H9B.1	1292	285
Y42H9B.2	7502	5990
Y42H9B.3	1154	82
Y42H9B.6	134	29
Y42H9B.8	443	146
Y42H9B.9	210	30
Y43B11AL.1	1341	822
Y43B11AL.2A	1158	537
Y43B11AL.2B	1008	387
Y43B11AR.1	577	33
Y43B11AR.2	903	681
Y43B11AR.3	1012	658
Y43B11AR.4	842	647
Y43C5A.1.1	347	66
Y43C5A.2	1443	509
Y43C5A.3	720	80
Y43C5A.4	657	29
Y43C5A.5A	1218	108
Y43C5A.5B	1178	68
Y43C5A.6A	1527	1023
Y43C5A.6B	1422	918
Y43C5A.6C	1428	924
Y43C5B.2	752	179
Y43C5B.3	1138	161
Y43D4A.1	309	104
Y43D4A.2	538	206

Y43D4A.3A	1134	28
Y43D4A.5A	4695	3766
Y43D4A.5B	1929	296
Y43D4A.5C	4650	3766
Y43D4A.5D	1884	296
Y43D4A.6	987	780
Y43E12A.1	1268	680
Y43E12A.2	1226	141
Y43F11A.5	2825	1786
Y43F11A.6	1116	122
Y43F4A.1A	2210	611
Y43F4A.1B	457	352
Y43F4A.1C	1992	529
Y43F4A.3	519	30
Y43F4A.4	318	85
Y43F4B.10.1	485	31
Y43F4B.10.2	516	62
Y43F4B.12	136	46
Y43F4B.3	2727	97
Y43F4B.4	1428	173
Y43F4B.5A	1921	464
Y43F4B.5B	1757	464
Y43F4B.6	3597	2826
Y43F4B.7	1617	1201
Y43F4B.9A.1	1033	253
Y43F4B.9A.2	1068	288
Y43F4B.9B.1	1816	251
Y43F4B.9B.2	1816	251
Y43F4B.9B.3	1853	288
Y43F8A.2	1665	1314
Y43F8A.3A	1330	416
Y43F8A.3B	1299	401
Y43F8A.5	1593	478
Y43F8B.11	580	141
Y43F8B.12	504	218
Y43F8B.13	662	3
Y43F8B.14	1976	28
Y43F8B.15	993	530
Y43F8B.18	741	160
Y43F8B.19	553	40
Y43F8B.1A	1289	519
Y43F8B.1B	1204	519
Y43F8B.1C	1243	473
Y43F8B.1D	2362	1677

Y43F8B.1E	2322	1637
Y43F8B.20	603	121
Y43F8B.23	729	105
Y43F8B.25	748	458
Y43F8B.28	555	371
Y43F8B.29	219	13
Y43F8B.2A	1197	461
Y43F8B.2B	1019	283
Y43F8B.2C.1	1019	283
Y43F8B.2C.2	966	230
Y43F8B.2D	1134	398
Y43F8B.2E.1	818	82
Y43F8B.2E.2	874	138
Y43F8B.2F.1	1018	278
Y43F8B.2F.2	874	138
Y43F8B.2F.3	938	203
Y43F8B.3A	3761	957
Y43F8B.3B	4917	4393
Y43F8B.3C	4424	957
Y43F8B.3D	4977	957
Y43F8B.3E	3596	792
Y43F8B.3F	4259	792
Y43F8B.3G	4673	1206
Y43F8B.3H	3005	964
Y43F8B.4A	841	556
Y43F8B.4B	853	556
Y43F8B.5	597	158
Y43F8B.7	372	253
Y43F8B.9	672	417
Y43F8C.10A	889	541
Y43F8C.10B	595	247
Y43F8C.11	291	21
Y43F8C.12	4905	691
Y43F8C.13	1121	14
Y43F8C.1	328	67
Y43F8C.14	2507	1675
Y43F8C.16	1122	458
Y43F8C.17	586	406
Y43F8C.18	480	115
Y43F8C.19	885	479
Y43F8C.20	665	350
Y43F8C.2	310	66
Y43F8C.23	558	49
Y43F8C.3	2470	185

Y43F8C.4	1734	1180
Y43F8C.5	819	453
Y43F8C.6A	1462	101
Y43F8C.6B	1330	101
Y43F8C.7.1	906	226
Y43F8C.7.2	923	243
Y43F8C.8	724	51
Y43F8C.9	407	87
Y43H11AL.1A.1	1727	937
Y43H11AL.1A.2	1746	956
Y43H11AL.1B.1	1894	937
Y43H11AL.1B.2	1913	956
Y43H11AL.2	1213	52
Y43H11AL.3	7009	5213
Y44A6B.1	960	723
Y44A6B.2A	975	346
Y44A6B.2B	825	346
Y44A6B.3	741	11
Y44A6C.1	1275	146
Y44A6C.2	1296	522
Y44A6D.2	613	37
Y44A6D.3A	958	141
Y44A6D.3B	967	150
Y44A6D.3C	960	143
Y44A6D.4	1333	95
Y44A6D.5	1271	110
Y44A6D.6	729	219
Y44A6D.7A	368	173
Y44A6E.1A	1700	170
Y44A6E.1B	1715	170
Y44E3A.2	1995	704
Y44E3A.3	412	21
Y44E3A.4	1718	1482
Y44E3A.6A	2863	1663
Y44E3A.6B	3017	1663
Y44E3B.1A.1	1278	130
Y44E3B.1A.2	1109	108
Y44E3B.1B.1	1253	130
Y44E3B.1B.2	1084	108
Y44E3B.2	1578	776
Y44F5A.1	1342	815
Y45F10A.2	1738	323
Y45F10A.3	882	236
Y45F10A.4	1302	943

Y45F10A.6A	3926	3535
Y45F10A.6B	3922	3535
Y45F10A.6C	3920	3529
Y45F10A.6D	3352	2961
Y45F10A.6E	3348	2961
Y45F10A.6F	3346	2955
Y45F10A.7A	1671	763
Y45F10A.7B	1392	484
Y45F10A.7C	1131	223
Y45F10A.7D	1083	175
Y45F10B.10A	4857	503
Y45F10B.10B	401	101
Y45F10B.10C	4062	1521
Y45F10B.12	666	489
Y45F10B.13A	2074	1430
Y45F10B.13B	2029	1385
Y45F10B.13C	739	87
Y45F10B.14	963	397
Y45F10B.3	228	70
Y45F10B.5	1002	197
Y45F10B.6	975	769
Y45F10C.3	1367	357
Y45F10C.4	429	219
Y45F10C.6	675	45
Y45F10D.10A	574	317
Y45F10D.10B	347	90
Y45F10D.11A	1281	447
Y45F10D.11B	649	362
Y45F10D.12.1	660	93
Y45F10D.12.2	657	93
Y45F10D.12.3	717	150
Y45F10D.13A	3171	2044
Y45F10D.13B	1208	234
Y45F10D.13C	1728	601
Y45F10D.14	1121	730
Y45F10D.15	927	303
Y45F10D.16.1	688	484
Y45F10D.16.2	240	51
Y45F10D.2	738	336
Y45F10D.3A	2453	1024
Y45F10D.3B	2040	611
Y45F10D.4	546	79
Y45F10D.6	615	407
Y45F10D.7	3004	787

Y45F10D.9	1552	1291
Y45F3A.1	1084	570
Y45F3A.2	988	198
Y45F3A.3A.1	1939	32
Y45F3A.3A.2	1998	91
Y45F3A.3B.1	1885	621
Y45F3A.3B.2	1998	91
Y45F3A.4	807	161
Y45F3A.5	288	11
Y45F3A.8	1288	901
Y45F3A.9	1093	162
Y45G12A.1	999	145
Y45G12B.1A	2499	1921
Y45G12B.1B	1218	809
Y45G12B.1C	1911	765
Y45G12B.2A	1221	86
Y45G12B.3	1310	358
Y45G12C.10	1020	429
Y45G12C.1	1248	718
Y45G12C.12	1023	878
Y45G12C.14	1014	590
Y45G12C.15	1017	603
Y45G12C.16	591	276
Y45G12C.2	782	158
Y45G12C.3	441	166
Y45G12C.5	1041	127
Y45G12C.6	825	700
Y45G12C.9	972	200
Y45G5AL.1A	1146	163
Y45G5AL.1B	1151	162
Y45G5AL.2	1223	527
Y45G5AM.1A.1	1405	341
Y45G5AM.1A.2	1423	359
Y45G5AM.1B.1	1329	341
Y45G5AM.1B.2	1347	359
Y45G5AM.2	3428	77
Y45G5AM.3	1233	984
Y45G5AM.4	390	162
Y45G5AM.5	504	357
Y45G5AM.6	1266	294
Y45G5AM.7	1480	1132
Y45G5AM.8	2052	816
Y45G5AM.9C	1396	733
Y46B2A.1	1645	381

Y46B2A.3	3516	3217
Y46C8AL.11	251	58
Y46C8AL.1	1899	801
Y46C8AL.2	1417	178
Y46C8AL.3	1401	135
Y46C8AL.4	1404	475
Y46C8AL.5	1484	736
Y46C8AL.8	1429	1108
Y46C8AL.9A	2018	980
Y46C8AL.9B	1791	1503
Y46C8AL.9C	1819	980
Y46C8AL.9D	1744	988
Y46C8AR.1.1	1603	1116
Y46C8AR.1.2	1689	1202
Y46D2A.1	1464	512
Y46D2A.2	1246	306
Y46D2A.3A	258	58
Y46D2A.3B	548	244
Y46E12A.2	492	340
Y46E12A.3	708	460
Y46E12A.4	964	273
Y46E12BL.11	180	58
Y46E12BL.1	831	461
Y46E12BL.2A	4215	358
Y46E12BL.2B	3931	3644
Y46E12BL.3	1012	474
Y46E12BL.4A	1532	646
Y46E12BL.4B	1059	572
Y46E12BL.4C	1398	911
Y46E12BL.4D	552	65
Y46E12BL.4E	1242	755
Y46E12BL.4F	2223	646
Y46E12BL.4G	2347	770
Y46E12BL.4H	1404	917
Y46E12BL.9	282	152
Y46E12BR.1	1003	473
Y46G5A.10	2305	2098
Y46G5A.12	815	466
Y46G5A.13	1854	752
Y46G5A.14	411	231
Y46G5A.15	1186	47
Y46G5A.17	2800	1123
Y46G5A.18A	1394	830
Y46G5A.18B	1554	830

Y46G5A.19A.1	1083	665
Y46G5A.19A.2	1419	1001
Y46G5A.19B.1	1160	673
Y46G5A.19B.2	1496	1009
Y46G5A.1A	3601	582
Y46G5A.1B	3513	582
Y46G5A.1C	2672	1541
Y46G5A.1D	1466	582
Y46G5A.21	2281	1102
Y46G5A.2	1519	939
Y46G5A.22A	1019	559
Y46G5A.22B	1033	559
Y46G5A.23	365	71
Y46G5A.24	1637	127
Y46G5A.26A	1659	608
Y46G5A.26B	528	290
Y46G5A.27	1444	55
Y46G5A.28	1300	8
Y46G5A.29	2485	1282
Y46G5A.30	2399	159
Y46G5A.31	2432	1420
Y46G5A.34	401	202
Y46G5A.35	759	473
Y46G5A.36	369	36
Y46G5A.38	360	257
Y46G5A.46	616	362
Y46G5A.4	6786	5232
Y46G5A.5	925	224
Y46G5A.8	621	58
Y46H3A.1A	942	814
Y46H3A.1B	1188	661
Y46H3A.3A	592	97
Y46H3A.3B	592	97
Y46H3A.4	396	97
Y46H3A.5	1166	197
Y46H3A.6	2164	601
Y46H3A.7	1012	26
Y46H3B.1	1750	105
Y46H3B.2	1749	309
Y46H3C.1	1086	360
Y46H3C.2	1071	839
Y46H3C.3	1077	251
Y46H3C.5	519	317
Y46H3C.6	1179	721

Y46H3D.2	1104	301
Y46H3D.3	1104	341
Y46H3D.4	1554	43
Y46H3D.5A.1	1604	1156
Y46H3D.5A.2	1379	931
Y46H3D.5B	1415	967
Y46H3D.6	1038	36
Y46H3D.7.1	1030	36
Y46H3D.7.2	1040	46
Y46H3D.8	744	75
Y46H3D.9	146	8
Y47A7.1	3535	1673
Y47A7.2	783	469
Y47D3A.10	977	297
Y47D3A.11	1860	482
Y47D3A.1	1555	227
Y47D3A.12	1033	156
Y47D3A.13	582	203
Y47D3A.14	911	242
Y47D3A.15	872	510
Y47D3A.16	1957	1722
Y47D3A.17A	2511	2137
Y47D3A.17B	2149	1775
Y47D3A.17C	2857	581
Y47D3A.17D	1550	1176
Y47D3A.17E	2511	2137
Y47D3A.20	449	169
Y47D3A.21	1073	7
Y47D3A.22	2518	941
Y47D3A.23A	2359	1322
Y47D3A.23B	1424	128
Y47D3A.25	1149	56
Y47D3A.26A	3894	3056
Y47D3A.26B	4062	3224
Y47D3A.26C	1449	611
Y47D3A.27	1553	102
Y47D3A.28	2166	235
Y47D3A.2	992	668
Y47D3A.29A	4566	3457
Y47D3A.29B	4531	3457
Y47D3A.30A	956	242
Y47D3A.30B	414	45
Y47D3A.31	718	431
Y47D3A.32A	309	85

Y47D3A.32B	451	190
Y47D3A.32C	317	73
Y47D3A.32D	360	136
Y47D3A.34	1084	497
Y47D3A.4	2103	581
Y47D3A.5	1191	920
Y47D3A.6A	3477	2938
Y47D3A.6B	1262	771
Y47D3B.10	1845	433
Y47D3B.11	1875	1105
Y47D3B.1	1627	5
Y47D3B.21	146	25
Y47D3B.25	245	111
Y47D3B.2A	586	37
Y47D3B.2B	781	575
Y47D3B.3	872	159
Y47D3B.4	1668	834
Y47D3B.5A	3796	785
Y47D3B.5B	3800	785
Y47D3B.6	1072	114
Y47D3B.7	3420	985
Y47D3B.9	2511	540
Y47D7A.10	144	25
Y47D7A.11	464	252
Y47D7A.12	628	475
Y47D7A.13	1046	873
Y47D7A.14A	1811	952
Y47D7A.14B	1887	991
Y47D7A.15	1455	1208
Y47D7A.16	1561	762
Y47D7A.1	660	311
Y47D7A.17	261	47
Y47D7A.18	744	602
Y47D7A.2	418	239
Y47D7A.3	948	1
Y47D7A.5	846	58
Y47D7A.6	441	229
Y47D7A.7	366	231
Y47D9A.1A	1558	502
Y47D9A.1B	1727	671
Y47D9A.2A	1695	509
Y47D9A.2B	1770	509
Y47D9A.4	360	115
Y47D9A.5.1	1571	84

Y47D9A.5.2	1517	84
Y47D9A.6	449	43
Y47G6A.10	2373	1876
Y47G6A.1.1	1657	1301
Y47G6A.11	3660	2865
Y47G6A.1.2	1690	1334
Y47G6A.12	3942	1618
Y47G6A.13	1474	20
Y47G6A.14	1590	651
Y47G6A.15	970	667
Y47G6A.17	5260	2090
Y47G6A.18	1233	846
Y47G6A.19A	1625	1095
Y47G6A.19B	1720	1095
Y47G6A.19C	1613	361
Y47G6A.20A	1117	550
Y47G6A.20B	2864	1095
Y47G6A.20C	1143	550
Y47G6A.2.1	1582	1267
Y47G6A.21	832	562
Y47G6A.2.2	1705	1390
Y47G6A.22	849	580
Y47G6A.23	5151	4149
Y47G6A.24A	756	128
Y47G6A.24B	812	115
Y47G6A.25	1445	100
Y47G6A.26	710	370
Y47G6A.28	2120	1508
Y47G6A.29	7383	831
Y47G6A.31	731	296
Y47G6A.32	741	279
Y47G6A.33	474	50
Y47G6A.3	665	74
Y47G6A.4	2084	272
Y47G6A.5A	2112	73
Y47G6A.5B	2040	152
Y47G6A.6	2515	730
Y47G6A.7A.1	1483	1192
Y47G6A.7A.2	1536	1245
Y47G6A.7B.1	1539	1292
Y47G6A.7B.2	1592	1345
Y47G6A.8	1327	107
Y47G6A.9	783	498
Y47G7B.2	1562	507

Y47G7B.3	1005	857
Y47H10A.1	2375	27
Y47H10A.2	1146	664
Y47H10A.3	1057	463
Y47H10A.4	1073	483
Y47H10A.5	1065	477
Y47H9A.1	1257	21
Y47H9B.2	954	705
Y47H9C.10	1242	19
Y47H9C.1	1174	629
Y47H9C.15	573	407
Y47H9C.2	1432	152
Y47H9C.4A	3729	3192
Y47H9C.4B	3495	110
Y47H9C.4C	3389	110
Y47H9C.4D	972	225
Y47H9C.5A	2504	1344
Y47H9C.6	703	384
Y47H9C.7	1169	26
Y47H9C.8	1325	1057
Y47H9C.9	2550	1875
Y48A5A.1.1	1471	100
Y48A5A.1.2	1687	316
Y48A5A.2.1	647	209
Y48A5A.2.2	671	233
Y48A5A.3A	419	9
Y48A6A.1	884	286
Y48A6B.10A	1470	292
Y48A6B.10B	1283	105
Y48A6B.10C	1524	346
Y48A6B.10D	1165	299
Y48A6B.1	1206	615
Y48A6B.11A	2977	2726
Y48A6B.11B	2956	2705
Y48A6B.13A	1868	575
Y48A6B.13B	1664	371
Y48A6B.13C	1498	205
Y48A6B.13D	2322	817
Y48A6B.13E	330	173
Y48A6B.14	496	79
Y48A6B.3	618	79
Y48A6B.4	206	24
Y48A6B.5	788	85
Y48A6B.6A	1624	492

Y48A6B.6B	1711	662
Y48A6B.7	582	218
Y48A6B.8	1740	1076
Y48A6B.9A	1246	369
Y48A6B.9B	439	108
Y48A6C.3	999	273
Y48A6C.4	1934	88
Y48A6C.5A	1476	670
Y48A6C.5B	1362	556
Y48A6C.6	1266	147
Y48B6A.10	1645	430
Y48B6A.11	3090	1445
Y48B6A.12.1	2129	911
Y48B6A.12.2	2259	1041
Y48B6A.1	2331	139
Y48B6A.13A	1088	2
Y48B6A.13B	1257	178
Y48B6A.17	927	7
Y48B6A.19	131	18
Y48B6A.2.1	407	20
Y48B6A.2.2	342	20
Y48B6A.23	148	29
Y48B6A.24	791	63
Y48B6A.25	148	79
Y48B6A.3	3060	1227
Y48B6A.4	1595	1103
Y48B6A.5	1374	306
Y48B6A.6A.1	2302	541
Y48B6A.6A.2	2449	688
Y48B6A.6B	1180	159
Y48B6A.6C	772	205
Y48B6A.7	1930	1805
Y48B6A.8	2168	1504
Y48B6A.9	814	482
Y48C3A.10	663	22
Y48C3A.11	1253	122
Y48C3A.12	2101	1729
Y48C3A.1	348	199
Y48C3A.14A	2811	2089
Y48C3A.14B	1331	609
Y48C3A.14C	2403	1681
Y48C3A.14D	812	90
Y48C3A.16	457	206
Y48C3A.17A	1239	252

Y48C3A.17B	855	252
Y48C3A.17C	1199	252
Y48C3A.17D	1077	252
Y48C3A.18A	811	51
Y48C3A.18B	670	94
Y48C3A.18C	532	69
Y48C3A.20	1464	663
Y48C3A.3	1027	94
Y48C3A.4	1748	38
Y48C3A.5A	1903	206
Y48C3A.5B	2152	206
Y48C3A.5C	1762	65
Y48C3A.7	2828	2241
Y48C3A.8A.1	2162	22
Y48C3A.8A.2	2149	269
Y48C3A.8B	1280	627
Y48D7A.1	432	204
Y48D7A.2.1	821	324
Y48D7A.2.2	973	476
Y48E1A.1A	5384	3607
Y48E1B.10	742	52
Y48E1B.1	1494	168
Y48E1B.11	948	737
Y48E1B.12	912	424
Y48E1B.13A	1611	92
Y48E1B.14A	3133	1296
Y48E1B.14B	903	773
Y48E1B.16	1047	729
Y48E1B.2A	2760	1380
Y48E1B.2B.1	1592	187
Y48E1B.2B.2	1535	98
Y48E1B.3A	1302	124
Y48E1B.3B	1028	605
Y48E1B.3C.1	3271	634
Y48E1B.3C.2	3269	632
Y48E1B.3D	2354	681
Y48E1B.5	1436	493
Y48E1B.7.1	2351	99
Y48E1B.7.2	2546	294
Y48E1B.8	1211	386
Y48E1B.9A.1	699	88
Y48E1B.9A.2	696	88
Y48E1C.1A	1445	61
Y48E1C.1B	2400	1750

Y48E1C.1C	683	61
Y48E1C.1D.1	1380	730
Y48E1C.1D.2	1384	1
Y48E1C.1D.3	1436	53
Y48E1C.2	1213	128
Y48E1C.3	920	474
Y48E1C.4A	794	542
Y48E1C.4B	835	41
Y48G10A.1.1	913	384
Y48G10A.1.2	1028	384
Y48G10A.1.3	940	411
Y48G10A.2A	1307	728
Y48G10A.2B	921	342
Y48G10A.3	1275	246
Y48G10A.4A	3092	1928
Y48G10A.4B	1841	677
Y48G10A.6	433	94
Y48G10A.7	253	125
Y48G1A.1	2924	2687
Y48G1A.2	729	92
Y48G1A.3	1295	220
Y48G1A.4	2704	1329
Y48G1A.5A	3100	468
Y48G1A.5B	1140	496
Y48G1A.6A	1986	1417
Y48G1A.6B	1975	1406
Y48G1BL.2A	7664	1672
Y48G1BL.2B	5621	4795
Y48G1BL.7	1025	173
Y48G1BM.6	3898	2981
Y48G1BR.1	1646	450
Y48G1C.10A	2734	841
Y48G1C.10B	1549	215
Y48G1C.10C	294	50
Y48G1C.1	1593	859
Y48G1C.12	1054	429
Y48G1C.13	370	81
Y48G1C.2A	2169	353
Y48G1C.2B.1	2602	526
Y48G1C.2B.2	2342	526
Y48G1C.2C	132	1
Y48G1C.4A	1409	31
Y48G1C.4B	1086	531
Y48G1C.5	3507	2266

Y48G1C.8A	4827	3219
Y48G1C.8B	4842	3234
Y48G8AL.10A	3891	601
Y48G8AL.10B	2799	668
Y48G8AL.10C	2763	632
Y48G8AL.10D	1863	331
Y48G8AL.11A	2186	1956
Y48G8AL.11B.1	1789	1559
Y48G8AL.11B.2	1763	1533
Y48G8AL.11C	520	278
Y48G8AL.12	261	71
Y48G8AL.13A.1	1056	136
Y48G8AL.13A.2	1093	173
Y48G8AL.13A.3	1170	250
Y48G8AL.13B.1	872	280
Y48G8AL.13B.2	1093	173
Y48G8AL.13B.3	1170	250
Y48G8AL.13B.4	1045	138
Y48G8AL.13B.5	990	102
Y48G8AL.14	638	186
Y48G8AL.15	541	39
Y48G8AL.16	263	35
Y48G8AL.1A	3235	2513
Y48G8AL.1B	2376	1654
Y48G8AL.1C	2104	1382
Y48G8AL.1D	1833	1111
Y48G8AL.1E	814	92
Y48G8AL.5A	2095	1388
Y48G8AL.5B	1455	748
Y48G8AL.5C	861	154
Y48G8AL.5D	657	298
Y48G8AL.6	3497	100
Y48G8AL.7	748	439
Y48G8AL.8A	625	396
Y48G8AL.8B	543	314
Y48G8AR.1A	1693	551
Y48G8AR.1B	1693	551
Y48G8AR.1C	573	350
Y48G8AR.2	1175	383
Y48G8AR.3	464	207
Y48G9A.10	2210	902
Y48G9A.11	1150	220
Y48G9A.12	765	166
Y48G9A.3	8187	5560

Y48G9A.4	3858	1545
Y48G9A.6	867	440
Y48G9A.7	244	90
Y48G9A.8	1533	491
Y49A10A.1	1437	1030
Y49A10A.2	849	522
Y49A3A.1	1350	585
Y49A3A.2.1	2330	1009
Y49A3A.2.2	2324	1003
Y49A3A.2.3	2468	101
Y49A3A.3	1233	745
Y49A3A.4	782	258
Y49A3A.5	685	237
Y49A3A.6	268	28
Y49C4A.1	896	482
Y49C4A.2	894	675
Y49C4A.4	921	290
Y49C4A.5	1050	618
Y49C4A.6	987	140
Y49C4A.8A.1	1714	133
Y49C4A.8A.2	2172	591
Y49C4A.8A.3	1754	173
Y49C4A.8B.1	1696	133
Y49C4A.8B.2	2154	591
Y49C4A.8B.3	1736	173
Y49C4A.9	1488	1359
Y49E10.10.1	1332	1132
Y49E10.10.2	1315	1115
Y49E10.1	1424	66
Y49E10.11A.1	3958	1409
Y49E10.11A.2	3917	1368
Y49E10.11B.1	3378	1409
Y49E10.11B.2	3337	1368
Y49E10.11C.1	4050	1409
Y49E10.11C.2	4009	1368
Y49E10.14A.1	1098	346
Y49E10.14A.2	1129	377
Y49E10.14B	400	276
Y49E10.15	551	188
Y49E10.16A	1095	399
Y49E10.16B	763	67
Y49E10.17A	1623	58
Y49E10.17B	1434	440
Y49E10.17C	1460	329

Y49E10.18	1064	802
Y49E10.19	3817	1210
Y49E10.20	1747	1461
Y49E10.21A	2139	8
Y49E10.21B	1408	8
Y49E10.23A	2383	61
Y49E10.23B	2410	61
Y49E10.24A	1339	1112
Y49E10.24B	804	103
Y49E10.2	502	187
Y49E10.25	1101	269
Y49E10.27	489	87
Y49E10.36	226	69
Y49E10.3A	1216	746
Y49E10.3B	764	21
Y49E10.4	1414	595
Y49E10.6A	631	237
Y49E10.6B	638	244
Y49F6A.10	348	172
Y49F6A.1	2901	2149
Y49F6A.2	963	812
Y49F6A.3	963	812
Y49F6A.5	1251	800
Y49F6B.10	1195	77
Y49F6B.11	1056	72
Y49F6B.1	1175	736
Y49F6B.12	342	51
Y49F6B.13	1017	424
Y49F6B.14	522	168
Y49F6B.2	848	466
Y49F6B.3	885	40
Y49F6B.4	1783	1154
Y49F6B.5	586	82
Y49F6B.6	231	4
Y49F6B.8	1088	723
Y49F6B.9A	1402	546
Y49F6B.9B	1404	548
Y49F6C.2	820	32
Y49F6C.3	989	438
Y49F6C.4	1030	627
Y49F6C.5	732	351
Y49F6C.6	1452	1011
Y49F6C.7	504	142
Y49F6C.8	652	180

Y49G5A.1	613	170
Y49G5B.1.1	1609	124
Y49G5B.1.2	1674	189
Y49G5B.4	379	161
Y4C6A.2A	3239	2772
Y4C6A.2B	1909	638
Y4C6A.2C	3053	2689
Y4C6A.2D	3202	2778
Y4C6A.3	1180	302
Y4C6A.4	339	185
Y4C6B.1	1551	760
Y4C6B.2A	1596	215
Y4C6B.2B	743	461
Y4C6B.3A	1582	886
Y4C6B.3B	1443	747
Y4C6B.3C	640	19
Y4C6B.4A	1815	338
Y4C6B.5	1537	655
Y4C6B.6	1693	431
Y4C6B.7A	583	124
Y4C6B.7B	426	124
Y50C1A.1A	2324	1870
Y50C1A.1B	1891	1383
Y50C1A.2	1221	312
Y50D4A.10	156	32
Y50D4A.1A	2551	51
Y50D4A.1B	2376	451
Y50D4A.3	431	2
Y50D4A.4	2087	894
Y50D4A.5	446	60
Y50D4A.6	410	183
Y50D4A.8	150	38
Y50D4A.9	247	60
Y50D4B.2	654	502
Y50D4B.5	1154	976
Y50D4B.6	1404	868
Y50D4B.7	1623	791
Y50D4C.1A	1579	621
Y50D4C.1B	1149	426
Y50D4C.2	1804	1035
Y50D4C.3	2310	502
Y50D4C.4	2462	588
Y50D4C.5	1593	1348
Y50D4C.6	891	54

Y50D7A.10	524	33
Y50D7A.1	2236	1581
Y50D7A.12	263	40
Y50D7A.13	309	20
Y50D7A.2	1830	423
Y50D7A.3A	1482	1032
Y50D7A.3B	1619	43
Y50D7A.4	2565	527
Y50D7A.5	562	199
Y50D7A.6	2175	871
Y50D7A.7	1886	1553
Y50D7A.8	1790	963
Y50D7A.9	1096	750
Y50E8A.10	656	406
Y50E8A.12A	612	79
Y50E8A.12B	201	18
Y50E8A.12C	333	79
Y50E8A.16	2458	1518
Y50E8A.20	155	13
Y50E8A.2	414	257
Y50E8A.3	456	145
Y50E8A.4A	1979	1306
Y50E8A.4B	1800	1127
Y50E8A.4C	1771	1127
Y50E8A.5	731	254
Y50E8A.6	2143	650
Y50E8A.7	1209	593
Y50E8A.9A	958	463
Y50E8A.9B	171	55
Y50E8A.9C	300	196
Y51A2A.12	298	105
Y51A2A.16	201	62
Y51A2A.1	890	244
Y51A2A.4A	355	176
Y51A2A.4B	150	68
Y51A2A.5	1908	329
Y51A2A.6	423	226
Y51A2B.3	732	266
Y51A2B.4	1062	246
Y51A2B.5	567	376
Y51A2B.6	2205	123
Y51A2B.8	171	76
Y51A2B.9	309	45
Y51A2D.10A	555	177

Y51A2D.10B	473	105
Y51A2D.11.1	573	154
Y51A2D.11.2	597	155
Y51A2D.12	1047	792
Y51A2D.13A	1684	768
Y51A2D.13B	1744	828
Y51A2D.14.1	217	60
Y51A2D.14.2	271	60
Y51A2D.15A	4002	2763
Y51A2D.15B	3711	2763
Y51A2D.15C	3784	2545
Y51A2D.17	1378	842
Y51A2D.18	1991	1335
Y51A2D.19A	3727	2037
Y51A2D.19B	3661	2037
Y51A2D.19C	3700	2037
Y51A2D.19D	3787	1336
Y51A2D.19E	3766	2037
Y51A2D.19F	3727	2037
Y51A2D.19G	3721	1336
Y51A2D.19H	3661	2037
Y51A2D.19I	3787	1757
Y51A2D.19J	3766	2037
Y51A2D.19K	3721	1757
Y51A2D.19L	3700	2037
Y51A2D.19M	3745	2082
Y51A2D.1A	978	493
Y51A2D.1B	1130	540
Y51A2D.21	400	18
Y51A2D.4	2100	266
Y51A2D.5	2252	877
Y51A2D.7A	2966	616
Y51A2D.7B	3264	626
Y51A2D.8	1231	567
Y51A2D.9A	592	210
Y51A2D.9B.1	538	163
Y51B9A.3	995	12
Y51B9A.4	1103	206
Y51B9A.6A	1708	141
Y51B9A.6B	1651	84
Y51B9A.7	415	162
Y51B9A.8	507	165
Y51B9A.9	1234	62
Y51F10.10	1247	303

Y51F10.11	590	394
Y51F10.2	1105	201
Y51F10.3	1204	839
Y51F10.4A	1988	461
Y51F10.4B	1469	1067
Y51F10.5	1777	166
Y51F10.7	798	503
Y51H1A.2A	3118	164
Y51H1A.2B	3102	148
Y51H1A.2C	1674	298
Y51H1A.2D	1367	468
Y51H1A.2E.1	1331	432
Y51H1A.2E.2	1397	23
Y51H1A.2E.3	1519	120
Y51H1A.2E.4	1590	222
Y51H1A.3A.1	683	380
Y51H1A.3A.2	684	380
Y51H1A.3B.1	762	459
Y51H1A.3B.2	763	459
Y51H1A.4	1824	720
Y51H1A.5	1653	626
Y51H1A.6A	3127	1654
Y51H1A.6B.1	1445	841
Y51H1A.6B.2	1704	231
Y51H4A.12	4938	3496
Y51H4A.13	1809	799
Y51H4A.16	411	264
Y51H4A.1	693	558
Y51H4A.17C	2325	1742
Y51H4A.21	396	41
Y51H4A.22	927	48
Y51H4A.23	774	443
Y51H4A.2	573	131
Y51H4A.3	1775	182
Y51H4A.4	701	47
Y51H4A.5	1057	794
Y51H4A.6	231	102
Y51H4A.7.1	2285	545
Y51H4A.7.2	2106	366
Y51H4A.8	642	213
Y51H4A.9	1128	22
Y51H7BM.1	1640	1257
Y51H7BR.2	969	11
Y51H7BR.4A	860	45

Y51H7BR.4B	763	183
Y51H7BR.7	625	192
Y51H7BR.8	350	136
Y51H7C.10	775	536
Y51H7C.11	3329	2695
Y51H7C.12A	1152	88
Y51H7C.12B	1098	34
Y51H7C.13	1155	604
Y51H7C.2	774	99
Y51H7C.3	534	202
Y51H7C.5.1	1323	415
Y51H7C.5.2	1284	376
Y51H7C.6A.1	2797	1651
Y51H7C.6A.2	2774	1628
Y51H7C.6B.1	1773	734
Y51H7C.6B.2	1750	711
Y51H7C.6C.1	1344	734
Y51H7C.6C.2	1321	711
Y51H7C.7	541	161
Y51H7C.8	237	40
Y51H7C.9	1363	1286
Y52B11A.10	2562	363
Y52B11A.1	658	498
Y52B11A.20A	324	68
Y52B11A.20B	1123	40
Y52B11A.21	804	345
Y52B11A.2A	870	388
Y52B11A.2B	880	394
Y52B11A.3A.1	1822	556
Y52B11A.3A.2	1812	556
Y52B11A.3B.1	1755	489
Y52B11A.3B.2	1745	489
Y52B11A.4.1	1593	88
Y52B11A.4.2	1666	88
Y52B11A.5	660	455
Y52B11A.7	1779	669
Y52B11A.8	625	363
Y52B11A.9	1265	271
Y52B11B.1	307	126
Y52B11C.1	777	609
Y52D3.1A.1	1365	270
Y52D3.1A.2	1356	261
Y52D3.1B	1154	244
Y52D5A.2	1635	1224

Y52E8A.1	687	210
Y52E8A.2	849	643
Y52E8A.3	585	83
Y52E8A.4	1302	925
Y52E8A.6	1407	584
Y53C10A.10	4722	47
Y53C10A.12	2324	505
Y53C10A.2	630	372
Y53C10A.3	510	387
Y53C10A.4	2979	2142
Y53C10A.5	1332	54
Y53C10A.6A	1226	149
Y53C10A.6B	1236	149
Y53C10A.9	4724	3941
Y53C12A.10	926	425
Y53C12A.11	787	678
Y53C12A.1	2480	1525
Y53C12A.2	1774	781
Y53C12A.3	978	453
Y53C12A.4.1	1565	287
Y53C12A.4.2	1596	27
Y53C12A.7.1	505	213
Y53C12A.7.2	698	213
Y53C12A.8	941	249
Y53C12B.1	2530	1984
Y53C12B.2	1289	668
Y53C12B.3A	2732	1248
Y53C12B.3B	3201	1248
Y53C12B.5A	1077	489
Y53C12B.5B	1239	201
Y53C12B.6	1224	570
Y53C12B.7	520	161
Y53C12B.8	214	41
Y53C12B.9	212	80
Y53C12C.1	945	4
Y53F4A.2	334	17
Y53F4B.10	1549	1360
Y53F4B.1	1392	471
Y53F4B.11A	814	27
Y53F4B.11B	667	388
Y53F4B.12A	2240	928
Y53F4B.12B	2363	994
Y53F4B.13A	2856	540
Y53F4B.13B	3485	540

Y53F4B.13C	1864	540
Y53F4B.13D	1801	540
Y53F4B.14A	431	80
Y53F4B.14B	171	37
Y53F4B.15	1344	586
Y53F4B.16	1301	629
Y53F4B.17	1023	141
Y53F4B.18	1608	202
Y53F4B.19	1051	127
Y53F4B.20	2213	669
Y53F4B.2	1313	680
Y53F4B.21	3438	1965
Y53F4B.22A	1416	477
Y53F4B.22B	865	69
Y53F4B.23	760	411
Y53F4B.24	1107	540
Y53F4B.25A	1749	1083
Y53F4B.25B	857	191
Y53F4B.27A	1847	1464
Y53F4B.27B	1750	1367
Y53F4B.28	2727	786
Y53F4B.30	742	161
Y53F4B.31	720	112
Y53F4B.32	696	114
Y53F4B.33	710	99
Y53F4B.35	651	104
Y53F4B.36	1010	26
Y53F4B.3	613	158
Y53F4B.37	639	76
Y53F4B.39A	1374	402
Y53F4B.39B	1453	481
Y53F4B.42	1677	319
Y53F4B.4A	960	294
Y53F4B.4B	1422	380
Y53F4B.4C	1240	198
Y53F4B.51	388	85
Y53F4B.5	584	388
Y53F4B.60	150	44
Y53F4B.62A	1106	916
Y53F4B.62B	234	55
Y53F4B.9	3671	33
Y53G8AL.1	3382	578
Y53G8AL.2	1446	124
Y53G8AL.3	759	492

Y53G8AL.4.1	323	14
Y53G8AL.4.2	433	203
Y53G8AM.4	987	615
Y53G8AM.5	690	562
Y53G8AM.6	552	392
Y53G8AM.7	759	213
Y53G8AM.8.1	2680	2478
Y53G8AM.8.2	2613	2478
Y53G8AR.1	819	170
Y53G8AR.2A	2756	364
Y53G8AR.2B	2753	361
Y53G8AR.3A	989	39
Y53G8AR.3B	1242	292
Y53G8AR.5	1071	472
Y53G8AR.6	1347	110
Y53G8AR.7A	1648	1236
Y53G8AR.7B	254	37
Y53G8AR.8	1480	1135
Y53G8AR.9	1988	246
Y53G8B.1	746	363
Y53G8B.2	1212	675
Y53G8B.3	1465	155
Y53G8B.4A	1580	19
Y53G8B.4B	1186	18
Y53H1A.1A	2025	1464
Y53H1A.1B	1931	1366
Y53H1A.2A	827	382
Y53H1A.2B	869	424
Y53H1A.2C	222	124
Y53H1A.3	606	389
Y53H1A.5A	984	165
Y53H1A.5B	922	103
Y53H1A.5C	506	263
Y53H1A.7	375	116
Y53H1A.8	328	31
Y53H1B.1	1241	280
Y53H1B.2	749	31
Y53H1B.4	543	249
Y53H1C.1A	2022	39
Y53H1C.1B	1958	39
Y53H1C.2A	4863	4032
Y53H1C.2B	810	681
Y53H1C.2C	4869	4038
Y53H1C.3	2296	2107

Y54E10A.10	1019	319
Y54E10A.11	4580	2474
Y54E10A.12	1875	1481
Y54E10A.13	498	314
Y54E10A.14	1110	155
Y54E10A.15	2567	1879
Y54E10A.16.1	1719	258
Y54E10A.16.2	1810	349
Y54E10A.17.1	592	157
Y54E10A.17.2	683	248
Y54E10A.21	150	35
Y54E10A.2	2434	2170
Y54E10A.26	285	155
Y54E10A.27	139	16
Y54E10A.3	1092	745
Y54E10A.4A	1690	192
Y54E10A.4B	2216	718
Y54E10A.5.1	665	126
Y54E10A.5.2	756	55
Y54E10A.6	2117	1271
Y54E10A.7	724	268
Y54E10A.9A.1	2316	211
Y54E10A.9A.2	2587	211
Y54E10A.9B.1	2330	216
Y54E10A.9B.2	2601	216
Y54E10A.9C.1	2285	1661
Y54E10A.9C.2	2556	1661
Y54E10BL.1	330	70
Y54E10BL.2	910	694
Y54E10BL.3	922	444
Y54E10BL.4	1701	375
Y54E10BL.5	495	202
Y54E10BL.6	1769	937
Y54E10BR.1A	2945	1334
Y54E10BR.1B	2927	1334
Y54E10BR.2.1	682	195
Y54E10BR.2.2	845	195
Y54E10BR.2.3	845	195
Y54E10BR.3	1151	843
Y54E10BR.4	1211	19
Y54E10BR.5	701	14
Y54E10BR.6	720	23
Y54E10BR.7	2016	88
Y54E10BR.8	1433	1075

Y54E2A.10	968	605
Y54E2A.1	1948	1699
Y54E2A.11A.1	2594	602
Y54E2A.11A.2	2588	596
Y54E2A.11B	1039	430
Y54E2A.12A	1505	381
Y54E2A.2	1239	513
Y54E2A.3	893	548
Y54E2A.4A	6454	5379
Y54E2A.4B	4300	3225
Y54E2A.4C	1845	770
Y54E2A.5	778	421
Y54E2A.7	994	374
Y54E2A.8A	1664	398
Y54E2A.8B	1007	554
Y54E2A.9	664	386
Y54E5A.1	1224	48
Y54E5A.2	1828	1579
Y54E5A.4	1811	890
Y54E5A.5	578	303
Y54E5A.6	1311	994
Y54E5A.7A	2251	104
Y54E5A.7B	1466	465
Y54E5A.8A	954	502
Y54E5A.8B	1141	689
Y54E5A.8C	799	347
Y54E5A.8D	799	347
Y54E5A.8E	373	209
Y54E5B.1A	2535	155
Y54E5B.1B	1583	155
Y54E5B.2	2641	1496
Y54E5B.3A	1003	168
Y54E5B.3B	909	188
Y54F10AL.1A	1118	625
Y54F10AL.1B	773	336
Y54F10AL.2A	3953	293
Y54F10AL.2B	1644	293
Y54F10AL.2C	3294	293
Y54F10AM.10	3969	1847
Y54F10AM.11	960	87
Y54F10AM.14	150	48
Y54F10AM.1	822	52
Y54F10AM.2A	2410	861
Y54F10AM.2B	2262	776

Y54F10AM.2C.1	2103	612
Y54F10AM.2C.2	2121	612
Y54F10AM.4A	4176	1269
Y54F10AM.4B	2071	1322
Y54F10AM.4C	2077	1322
Y54F10AM.5	716	245
Y54F10AM.6	811	472
Y54F10AM.8	1908	865
Y54F10AR.1	855	483
Y54F10AR.2	957	409
Y54F10BL.1	1201	45
Y54F10BM.10	987	96
Y54F10BM.11	1232	45
Y54F10BM.1	2314	1975
Y54F10BM.12	979	111
Y54F10BM.13	982	144
Y54F10BM.14	342	54
Y54F10BM.15	876	667
Y54F10BM.20	949	661
Y54F10BM.2	3655	2169
Y54F10BM.3	2462	1534
Y54F10BM.4	1250	862
Y54F10BM.5	1232	779
Y54F10BM.6	745	162
Y54F10BM.7	1363	1025
Y54F10BM.9	3559	915
Y54G11A.10A	669	415
Y54G11A.10B	627	407
Y54G11A.11.1	1263	70
Y54G11A.11.2	1325	132
Y54G11A.1	1656	363
Y54G11A.12	1038	880
Y54G11A.13A	1575	55
Y54G11A.13B	1482	923
Y54G11A.14A	1475	933
Y54G11A.14B	138	57
Y54G11A.15	1137	257
Y54G11A.17	469	92
Y54G11A.2	924	306
Y54G11A.4	1808	1031
Y54G11A.5.1	1614	957
Y54G11A.5.2	1637	980
Y54G11A.6	1543	975
Y54G11A.8A	1378	254

Y54G11A.8B	1365	241
Y54G11A.9	802	313
Y54G11B.1	1621	860
Y54G2A.10A	626	458
Y54G2A.10B	728	588
Y54G2A.11A	1751	525
Y54G2A.11B	677	240
Y54G2A.12	865	512
Y54G2A.13	1897	278
Y54G2A.14.1	1126	69
Y54G2A.14.2	1222	165
Y54G2A.14.3	1222	165
Y54G2A.15	474	192
Y54G2A.16A	614	388
Y54G2A.16B	842	616
Y54G2A.16C	491	265
Y54G2A.17A.1	1847	1528
Y54G2A.17A.2	1891	1572
Y54G2A.17B	1887	1580
Y54G2A.17C.2	793	72
Y54G2A.18	777	409
Y54G2A.19	681	89
Y54G2A.21.1	3124	2764
Y54G2A.21.2	3120	2764
Y54G2A.22	1058	143
Y54G2A.23	706	1
Y54G2A.25A	3649	3463
Y54G2A.25B	1659	203
Y54G2A.26A	2572	466
Y54G2A.26B	2328	222
Y54G2A.26C	2058	481
Y54G2A.27	609	142
Y54G2A.28A	522	238
Y54G2A.28B	422	49
Y54G2A.29	1854	325
Y54G2A.2A	1944	835
Y54G2A.2B	1956	1517
Y54G2A.2C.1	1273	164
Y54G2A.2C.2	1804	695
Y54G2A.2C.3	1899	790
Y54G2A.2C.4	1541	432
Y54G2A.2D.1	626	197
Y54G2A.2D.2	892	243
Y54G2A.31	885	354

Y54G2A.32.1	590	66
Y54G2A.32.2	601	84
Y54G2A.32.3	940	429
Y54G2A.33	816	150
Y54G2A.35A	1501	622
Y54G2A.35B	1161	622
Y54G2A.37	1126	174
Y54G2A.38	921	670
Y54G2A.39	719	123
Y54G2A.40	1979	94
Y54G2A.41.1	443	34
Y54G2A.41.2	485	76
Y54G2A.4	1522	754
Y54G2A.42	1467	912
Y54G2A.44	642	515
Y54G2A.45A	1073	661
Y54G2A.45B	703	291
Y54G2A.45C	301	65
Y54G2A.46	474	54
Y54G2A.47	486	350
Y54G2A.49A	376	177
Y54G2A.49B	511	312
Y54G2A.50	767	13
Y54G2A.52	657	387
Y54G2A.57	1315	765
Y54G2A.5A	747	257
Y54G2A.5B	709	219
Y54G2A.5C	659	169
Y54G2A.66	296	60
Y54G2A.67	268	49
Y54G2A.68	149	54
Y54G2A.6A	923	104
Y54G2A.6B.1	742	17
Y54G2A.6B.2	856	44
Y54G2A.72	257	117
Y54G2A.73A	1143	893
Y54G2A.73B.1	401	151
Y54G2A.73B.2	640	390
Y54G2A.75	551	16
Y54G2A.76	639	199
Y54G2A.7	683	102
Y54G2A.77	972	335
Y54G2A.8A	1489	755
Y54G2A.8B	1439	705

Y54G2A.9	1300	402
Y54G9A.10	1098	609
Y54G9A.12	190	58
Y54G9A.13	190	27
Y54G9A.3A	2020	441
Y54G9A.3B	2007	428
Y54G9A.3C	1896	317
Y54G9A.4	989	50
Y54G9A.5	846	511
Y54G9A.6	1198	863
Y54G9A.7	904	80
Y54G9A.9	373	83
Y54H5A.1.1	1485	305
Y54H5A.1.2	1564	384
Y54H5A.1.3	1493	305
Y54H5A.2	1258	449
Y54H5A.3	1068	34
Y54H5A.4	1452	850
Y55B1AL.1	868	422
Y55B1AL.2	310	77
Y55B1AL.3A	2933	1906
Y55B1AL.3B	1723	696
Y55B1AR.1.1	541	269
Y55B1AR.1.2	784	512
Y55B1AR.2A	1905	841
Y55B1AR.2B	1734	813
Y55B1AR.3	903	80
Y55B1AR.4	1085	227
Y55B1BL.1	1177	610
Y55B1BM.1A	1931	58
Y55B1BM.1B	1871	58
Y55B1BM.1C	1247	58
Y55B1BR.1	1733	208
Y55B1BR.2	2537	476
Y55B1BR.3	2249	273
Y55B1BR.4	1704	1119
Y55B1BR.5	688	14
Y55D5A.11	2003	60
Y55D5A.1A	1181	801
Y55D5A.1B	834	454
Y55D5A.3	1068	102
Y55D5A.4	623	392
Y55D5A.5A	5795	2531
Y55D5A.5B	3146	2433

Y55D5A.6	1295	36
Y55D9A.1A	2863	999
Y55D9A.1B	2865	1001
Y55D9A.1C	2706	842
Y55D9A.1D	2313	449
Y55D9A.2A	1739	238
Y55D9A.2B	1693	238
Y55F3AL.1A	6590	2897
Y55F3AL.1B	6222	2828
Y55F3AL.1C	5655	2261
Y55F3AL.1D	5622	2261
Y55F3AL.1E	3876	515
Y55F3AL.1F	3909	515
Y55F3AM.10	943	205
Y55F3AM.11	1056	392
Y55F3AM.12	1465	856
Y55F3AM.14	1998	1133
Y55F3AM.15	1670	550
Y55F3AM.1	632	349
Y55F3AM.21	547	249
Y55F3AM.3A	2169	1731
Y55F3AM.3B	360	213
Y55F3AM.3C.1	1727	1289
Y55F3AM.3C.2	1827	1389
Y55F3AM.4A	1009	317
Y55F3AM.4B	312	166
Y55F3AM.5	1246	413
Y55F3AM.6A	1266	501
Y55F3AM.6B	1042	501
Y55F3AM.7A	852	455
Y55F3AM.7B	885	455
Y55F3AM.7C	656	259
Y55F3AM.7D	689	259
Y55F3AM.8A	527	347
Y55F3AM.8B	527	347
Y55F3AM.9A	1431	541
Y55F3AM.9B	1279	389
Y55F3AR.1.1	991	744
Y55F3AR.1.2	1074	744
Y55F3AR.2	825	278
Y55F3AR.3A	1891	1043
Y55F3AR.3B	1521	673
Y55F3BL.1	878	484
Y55F3BL.2A	2477	268

Y55F3BL.2B	891	60
Y55F3BL.4	714	91
Y55F3BL.6	168	1
Y55F3BR.10	393	45
Y55F3BR.11	548	187
Y55F3BR.1	2642	2051
Y55F3BR.2A	4652	2309
Y55F3BR.2B	3852	1509
Y55F3BR.2C	2307	1169
Y55F3BR.4A	1206	907
Y55F3BR.4B	1197	564
Y55F3BR.6	1057	327
Y55F3BR.7	320	90
Y55F3BR.8A	2028	164
Y55F3BR.8B	1880	16
Y55F3C.10	1056	840
Y55F3C.14	300	31
Y55F3C.2	1071	681
Y55F3C.3A	2181	1389
Y55F3C.3B	1474	682
Y55F3C.3C	2191	1399
Y55F3C.3D	2002	1210
Y55F3C.3E	1978	1186
Y55F3C.3F	1948	1156
Y55F3C.3G	1924	1132
Y55F3C.5	881	139
Y55F3C.7A	1625	1161
Y55F3C.7B	1553	1161
Y55F3C.8	1074	833
Y55F3C.9A	2136	180
Y55F3C.9B	1479	323
Y55F3C.9C	1464	323
Y55H10A.1	1904	193
Y55H10A.2	1131	126
Y56A3A.11	923	514
Y56A3A.12A.1	2183	271
Y56A3A.12A.2	2304	392
Y56A3A.12B	2087	175
Y56A3A.13	1383	212
Y56A3A.16A	1826	1284
Y56A3A.16B	1795	1284
Y56A3A.17A	1697	1194
Y56A3A.17B	1652	695
Y56A3A.19	513	92

Y56A3A.1A.1	2201	1963
Y56A3A.1A.2	2202	1964
Y56A3A.1B.1	1186	571
Y56A3A.1B.2	1345	730
Y56A3A.20	1312	351
Y56A3A.21.1	698	344
Y56A3A.21.2	717	363
Y56A3A.2	1917	266
Y56A3A.22	968	596
Y56A3A.27	2404	1064
Y56A3A.28	1161	19
Y56A3A.29A	1014	683
Y56A3A.29B	464	135
Y56A3A.29C	355	26
Y56A3A.29D	922	591
Y56A3A.30	2394	2
Y56A3A.3.1	1060	68
Y56A3A.31	1630	150
Y56A3A.3.2	1310	318
Y56A3A.32A	2276	1742
Y56A3A.32B	2423	2029
Y56A3A.32C	1609	1075
Y56A3A.33	1108	704
Y56A3A.36	1090	9
Y56A3A.39	407	164
Y56A3A.4A	1110	483
Y56A3A.4B.1	1005	378
Y56A3A.4B.2	1240	613
Y56A3A.5	2370	849
Y56A3A.6.1	2557	282
Y56A3A.6.2	2603	328
Y56A3A.7A	1554	600
Y56A3A.7B	1885	600
Y57A10A.10	1645	600
Y57A10A.11	1469	398
Y57A10A.13	2398	1935
Y57A10A.1	4520	3308
Y57A10A.14	797	408
Y57A10A.15	3219	2098
Y57A10A.16	674	394
Y57A10A.18A	4986	4321
Y57A10A.18B	4985	3396
Y57A10A.18C	5073	4408
Y57A10A.18D	5055	4390

Y57A10A.18E	5067	4402
Y57A10A.19	1346	41
Y57A10A.20	1929	1559
Y57A10A.2	1215	1002
Y57A10A.23	679	185
Y57A10A.24	1730	1534
Y57A10A.25	1700	230
Y57A10A.26.1	925	601
Y57A10A.26.2	951	627
Y57A10A.27	1356	971
Y57A10A.28	1049	619
Y57A10A.30.1	809	50
Y57A10A.30.2	840	68
Y57A10A.30.3	1201	881
Y57A10A.31	4030	439
Y57A10A.35	1074	481
Y57A10A.3	773	144
Y57A10A.38	175	69
Y57A10A.4	1989	1154
Y57A10A.5	1959	1405
Y57A10A.7	2199	489
Y57A10A.8	1681	232
Y57A10A.9	661	336
Y57A10B.1	1727	860
Y57A10B.2	537	286
Y57A10B.3	1062	435
Y57A10B.4	1119	690
Y57A10B.5	1083	847
Y57A10B.6	1222	960
Y57A10B.7	868	70
Y57A10C.10	645	163
Y57A10C.11	820	295
Y57A10C.1	845	291
Y57A10C.3	1149	444
Y57A10C.4	1080	428
Y57A10C.6	1339	143
Y57A10C.7	930	54
Y57A10C.8	1050	102
Y57A10C.9	936	51
Y57E12AL.1A	1687	143
Y57E12AL.1B	1473	139
Y57E12AL.2	366	108
Y57E12AL.4	504	197
Y57E12AL.5	834	245

Y57E12AL.6.1	519	86
Y57E12AL.6.2	522	120
Y57E12AM.1	423	80
Y57E12AR.1	420	56
Y57E12B.10	253	90
Y57E12B.3	1758	1028
Y57E12B.4	987	233
Y57E12B.8	149	48
Y57G11A.1A	2092	994
Y57G11A.1B	2525	1715
Y57G11A.1C	636	305
Y57G11A.1D	2624	1814
Y57G11A.2	2069	490
Y57G11A.225	125	44
Y57G11A.4.1	937	322
Y57G11A.4.2	902	287
Y57G11B.1	1257	139
Y57G11B.2A	772	30
Y57G11B.2B	635	38
Y57G11B.3	603	265
Y57G11B.5	720	349
Y57G11B.6	417	198
Y57G11B.7	705	47
Y57G11B.97A	646	352
Y57G11B.97B	594	300
Y57G11C.10A	1688	983
Y57G11C.10B	1733	1008
Y57G11C.10C.1	723	25
Y57G11C.10C.2	660	207
Y57G11C.1130	653	381
Y57G11C.1135	246	47
Y57G11C.1142	154	73
Y57G11C.1143	498	51
Y57G11C.1	1902	184
Y57G11C.11A	949	115
Y57G11C.11B.2	670	224
Y57G11C.11B.3	540	31
Y57G11C.11B.4	869	35
Y57G11C.12A.1	768	151
Y57G11C.12A.2	573	127
Y57G11C.12B.1	739	60
Y57G11C.12B.2	771	515
Y57G11C.12B.3	739	73
Y57G11C.12B.4	693	56

Y57G11C.12B.5	676	39
Y57G11C.12C	176	12
Y57G11C.13	1067	84
Y57G11C.14	790	325
Y57G11C.15A	2057	1205
Y57G11C.15B.1	1801	949
Y57G11C.15B.2	1729	877
Y57G11C.15B.3	1738	886
Y57G11C.15B.4	1823	971
Y57G11C.15B.5	1794	942
Y57G11C.15B.6	1781	929
Y57G11C.15B.7	1776	924
Y57G11C.16	581	94
Y57G11C.17A	1625	259
Y57G11C.17B	594	228
Y57G11C.20	1950	366
Y57G11C.2	1329	91
Y57G11C.21	711	175
Y57G11C.22A	1441	1
Y57G11C.22B	1205	693
Y57G11C.23	1634	182
Y57G11C.24A.1	2964	85
Y57G11C.24A.2	3000	121
Y57G11C.24A.3	3012	133
Y57G11C.24D.10	2957	88
Y57G11C.24D.11	3011	134
Y57G11C.24D.1	2833	1862
Y57G11C.24D.2	3011	134
Y57G11C.24D.3	3002	134
Y57G11C.24D.4	3004	134
Y57G11C.24D.5	3003	134
Y57G11C.24D.6	2930	1959
Y57G11C.24D.7	3000	121
Y57G11C.24D.8	2958	80
Y57G11C.24D.9	3012	133
Y57G11C.24E	2260	1289
Y57G11C.24G	3090	211
Y57G11C.24H	2616	211
Y57G11C.31.1	1359	831
Y57G11C.31.2	1449	921
Y57G11C.32	2394	1038
Y57G11C.33A	869	66
Y57G11C.33B	852	59
Y57G11C.34	786	76

Y57G11C.36.1	1494	725
Y57G11C.36.2	1791	1022
Y57G11C.36.3	1658	889
Y57G11C.37A	2666	1095
Y57G11C.37B	2834	1263
Y57G11C.38	1253	663
Y57G11C.39	645	119
Y57G11C.3A	1077	30
Y57G11C.3B	995	466
Y57G11C.40	587	77
Y57G11C.4	1031	393
Y57G11C.42A	2117	669
Y57G11C.42B	1790	669
Y57G11C.42C	1351	136
Y57G11C.43	977	428
Y57G11C.44A	553	211
Y57G11C.44B	264	136
Y57G11C.44C	123	53
Y57G11C.45A	348	68
Y57G11C.45B	436	280
Y57G11C.45C	354	68
Y57G11C.46	1180	641
Y57G11C.47	1078	971
Y57G11C.48	896	722
Y57G11C.499	776	108
Y57G11C.50	980	289
Y57G11C.5A	1685	127
Y57G11C.5B	1588	30
Y57G11C.5C	890	433
Y57G11C.6	1449	211
Y57G11C.7	779	461
Y57G11C.8	878	395
Y57G11C.9A	1855	1291
Y57G11C.9B	2072	1507
Y57G11C.9C.1	756	517
Y57G11C.9C.2	772	533
Y57G11C.9D	501	121
Y57G7A.10	1067	346
Y57G7A.12	948	645
Y57G7A.1	458	334
Y57G7A.2	541	265
Y57G7A.3A	371	173
Y57G7A.3B	291	157
Y57G7A.4	1180	229

Y57G7A.5	779	134
Y57G7A.6	2758	155
Y57G7A.7	1133	733
Y57G7A.9	664	203
Y58A7A.1A	603	156
Y58A7A.1B	772	71
Y58A7A.2	483	217
Y58A7A.5	1131	296
Y58G8A.1	1683	790
Y58G8A.4A	1490	331
Y58G8A.4B	1564	331
Y59A8A.1	1892	270
Y59A8A.2	1925	1687
Y59A8A.3	2477	1878
Y59A8A.4	1002	222
Y59A8B.10A	1499	1160
Y59A8B.10B	1370	1031
Y59A8B.10C	439	105
Y59A8B.11A	977	677
Y59A8B.11B	1021	721
Y59A8B.12	762	253
Y59A8B.13A	1773	530
Y59A8B.13B	1440	530
Y59A8B.13C	1728	526
Y59A8B.13D	1395	526
Y59A8B.13E	590	330
Y59A8B.14A	2328	198
Y59A8B.14B	1431	1016
Y59A8B.14C	1842	187
Y59A8B.19A	543	69
Y59A8B.1A	5451	274
Y59A8B.1B	1514	274
Y59A8B.20	694	33
Y59A8B.21	1403	735
Y59A8B.22A.1	1948	444
Y59A8B.22A.2	2168	444
Y59A8B.22B.1	1656	152
Y59A8B.22B.2	1876	152
Y59A8B.22C.1	1682	178
Y59A8B.22C.2	1902	178
Y59A8B.22D.1	1077	487
Y59A8B.22D.2	1297	487
Y59A8B.23A.1	1875	229
Y59A8B.23A.2	1953	307

Y59A8B.23B	1320	321
Y59A8B.23C.1	1846	229
Y59A8B.23C.2	1924	307
Y59A8B.24	522	302
Y59A8B.25	438	172
Y59A8B.26	777	99
Y59A8B.3	1050	767
Y59A8B.40	451	59
Y59A8B.6	3045	676
Y59A8B.7	972	459
Y59A8B.8	1030	636
Y59A8B.9	564	51
Y59C2A.1	1509	33
Y59C2A.2	1809	256
Y59C2A.3	2407	492
Y59E1A.1	1428	944
Y59E1B.1	469	43
Y59E1B.2	300	57
Y59E9AL.1	705	348
Y59E9AL.2	1188	242
Y59E9AL.3	1182	242
Y59E9AL.36	1833	1155
Y59E9AL.37	150	47
Y59E9AL.4	1677	923
Y59E9AL.6	769	111
Y59E9AL.7	770	268
Y59E9AR.4	702	457
Y59H11AL.1A	1620	941
Y59H11AL.1B	1350	1187
Y59H11AM.2	903	349
Y59H11AM.3	903	349
Y59H11AM.4	558	444
Y59H11AR.10	237	97
Y59H11AR.2A.1	3893	1478
Y59H11AR.2A.2	3917	1502
Y59H11AR.2B	3722	1307
Y59H11AR.2C	2483	68
Y59H11AR.2D	2186	52
Y59H11AR.3	387	95
Y59H11AR.4	1526	1080
Y59H11AR.5	648	118
Y5F2A.1	536	245
Y5F2A.2.1	453	122
Y5F2A.2.2	519	168

Y5F2A.3	873	765
Y5F2A.4	1463	407
Y5H2A.1	509	136
Y5H2A.2	1278	790
Y5H2A.4	1620	19
Y5H2B.1	1095	914
Y5H2B.2A	1310	595
Y5H2B.2B	1405	595
Y5H2B.3	741	258
Y5H2B.5	1590	248
Y5H2B.6	1443	1342
Y5H2B.7	1002	1
Y60A3A.10.1	1846	893
Y60A3A.10.2	1853	900
Y60A3A.12	1678	1120
Y60A3A.1	2896	1421
Y60A3A.13A	1480	106
Y60A3A.13B	560	405
Y60A3A.13C	1480	106
Y60A3A.14	1245	520
Y60A3A.18	678	56
Y60A3A.19A	774	231
Y60A3A.19B	857	233
Y60A3A.19C	630	231
Y60A3A.21A	377	19
Y60A3A.21B	363	10
Y60A3A.21D	249	17
Y60A3A.22A	975	884
Y60A3A.22B	747	433
Y60A3A.23	247	107
Y60A3A.24	1215	155
Y60A3A.25	1487	345
Y60A3A.2	729	74
Y60A3A.3	996	449
Y60A3A.4A	989	462
Y60A3A.5	936	464
Y60A3A.6	1002	465
Y60A3A.7	1254	961
Y60A3A.8	1260	931
Y60A3A.9	856	373
Y60A9.1	807	632
Y60C6A.1	1084	303
Y61A9LA.10	3345	2098
Y61A9LA.11A	746	337

Y61A9LA.11B	771	131
Y61A9LA.1	2088	1472
Y61A9LA.3A	2338	302
Y61A9LA.3B	1665	1158
Y61A9LA.3C	2287	302
Y61A9LA.4	600	71
Y61A9LA.7	563	230
Y61A9LA.8	2674	33
Y61A9LA.9	792	362
Y61B8A.1	1059	953
Y61B8A.2	1130	333
Y61B8A.6	361	202
Y61B8B.1	978	218
Y62E10A.10	802	54
Y62E10A.11A.1	634	467
Y62E10A.11A.2	638	303
Y62E10A.11B.1	816	467
Y62E10A.11B.2	775	467
Y62E10A.11B.3	892	543
Y62E10A.11B.4	786	437
Y62E10A.12.1	417	107
Y62E10A.12.2	925	159
Y62E10A.13A	1078	7
Y62E10A.13B	1081	38
Y62E10A.13C	1007	524
Y62E10A.13D	749	266
Y62E10A.14	1305	580
Y62E10A.1	452	21
Y62E10A.15A	978	38
Y62E10A.15B	924	38
Y62E10A.16	2067	1042
Y62E10A.17A	1203	748
Y62E10A.17B	1215	760
Y62E10A.19	1172	246
Y62E10A.20	859	12
Y62E10A.2.1	729	94
Y62E10A.2.4	771	136
Y62E10A.3	662	298
Y62E10A.4A	933	402
Y62E10A.4B	324	68
Y62E10A.5A	598	12
Y62E10A.5B.1	579	9
Y62E10A.5B.2	574	161
Y62E10A.6	1478	199

Y62E10A.8A	940	552
Y62E10A.9.1	742	318
Y62E10A.9.2	775	351
Y62E10A.9.3	773	349
Y62E10A.9.4	790	366
Y62F5A.10	1413	471
Y62F5A.11	146	65
Y62F5A.12	500	160
Y62F5A.1A	1002	531
Y62F5A.1B	1075	531
Y62F5A.9	734	351
Y62H9A.10	996	383
Y62H9A.1	1210	816
Y62H9A.11	696	36
Y62H9A.12	783	313
Y62H9A.13	1047	305
Y62H9A.14	1049	608
Y62H9A.15B	507	361
Y62H9A.2	654	514
Y62H9A.3	725	50
Y62H9A.4.1	718	489
Y62H9A.4.2	727	489
Y62H9A.5	611	130
Y62H9A.6	636	407
Y62H9A.7	726	182
Y62H9A.8	513	74
Y62H9A.9	1110	587
Y63D3A.2	967	22
Y63D3A.4	1237	358
Y63D3A.5.1	1727	157
Y63D3A.5.2	1816	246
Y63D3A.6A.1	1864	1124
Y63D3A.6A.2	1935	1195
Y63D3A.6B.1	2641	1124
Y63D3A.6B.2	2712	1195
Y63D3A.7	367	139
Y63D3A.8	1528	511
Y64G10A.10B	427	137
Y64G10A.1	909	153
Y64G10A.2	614	173
Y64G10A.355	148	36
Y64G10A.6	2986	1216
Y64G10A.7A	5251	1569
Y64G10A.7B	5431	1347

Y64G10A.7C	5125	1514
Y64G10A.7D	5104	1569
Y64G10A.8	1011	891
Y64H9A.2	578	269
Y65A5A.1	540	243
Y65A5A.2A	1002	74
Y65A5A.2B	902	28
Y65B4A.1	1423	105
Y65B4A.2A	1508	619
Y65B4A.2B	1628	88
Y65B4A.2C	1587	698
Y65B4A.3	761	301
Y65B4A.4	375	31
Y65B4A.6A	1255	1003
Y65B4A.6B	879	627
Y65B4A.7A	501	321
Y65B4A.7B	301	121
Y65B4A.8.1	1689	483
Y65B4A.8.2	1754	483
Y65B4A.9A	1264	543
Y65B4A.9B	706	545
Y65B4BL.12	289	7
Y65B4BL.1A	361	130
Y65B4BL.1B	1090	75
Y65B4BL.1C	1131	111
Y65B4BL.2A	2040	1496
Y65B4BL.2B.1	2040	1496
Y65B4BL.2B.2	2046	1502
Y65B4BL.2B.3	2028	1484
Y65B4BL.3A	938	696
Y65B4BL.3B	772	530
Y65B4BL.4	1120	802
Y65B4BL.5A	2652	706
Y65B4BL.5B	2461	515
Y65B4BL.5C	2611	665
Y65B4BL.6A	531	195
Y65B4BL.6B	422	44
Y65B4BL.7A	767	371
Y65B4BL.7B	675	279
Y65B4BR.1	1232	312
Y65B4BR.2A	861	556
Y65B4BR.2B	718	413
Y65B4BR.2C	760	455
Y65B4BR.2D	903	598

Y65B4BR.2E	1571	556
Y65B4BR.2F	1613	598
Y65B4BR.3	3307	2441
Y65B4BR.4A	2943	796
Y65B4BR.4B	2937	796
Y65B4BR.4C.1	2334	187
Y65B4BR.4C.2	2454	92
Y65B4BR.4D.1	2358	217
Y65B4BR.4D.2	2448	92
Y65B4BR.5A	698	39
Y65B4BR.5B	788	39
Y65B4BR.5C	636	20
Y65B4BR.5D	144	20
Y65B4BR.6A	1495	899
Y65B4BR.6B	1675	1079
Y65B4BR.6C	1591	1118
Y65B4BR.8	740	174
Y65B4BR.9	448	314
Y66A7A.1	1119	188
Y66A7A.2A	591	273
Y66A7A.2B	435	117
Y66A7A.4	1527	497
Y66A7A.5	2157	1829
Y66A7A.6.1	1304	54
Y66A7A.6.2	1376	126
Y66A7A.7	354	85
Y66A7A.8	1467	631
Y66A7A.9	257	90
Y66C5A.1	391	182
Y66C5A.2	342	179
Y66D12A.10	903	516
Y66D12A.11	1080	370
Y66D12A.12	1455	332
Y66D12A.13	1656	369
Y66D12A.14	8872	228
Y66D12A.15	2594	2258
Y66D12A.1	711	440
Y66D12A.17	2481	1310
Y66D12A.19	1768	362
Y66D12A.20	1192	216
Y66D12A.21	617	456
Y66D12A.22.1	417	74
Y66D12A.22.2	385	76
Y66D12A.23.1	1335	644

Y66D12A.23.2	1353	662
Y66D12A.24	986	736
Y66D12A.30	273	111
Y66D12A.3	1106	350
Y66D12A.5	2382	1535
Y66D12A.6	564	150
Y66D12A.7	931	432
Y66D12A.8A	818	518
Y66D12A.8B	665	365
Y66D12A.8C	254	33
Y66D12A.9	920	578
Y66H1A.2A	929	278
Y66H1A.3	449	160
Y66H1A.4.1	990	277
Y66H1A.4.2	1186	473
Y66H1A.5	749	293
Y66H1A.6A	3861	3299
Y66H1A.6B	3636	3051
Y66H1A.6C	3906	3299
Y66H1A.8B	171	35
Y66H1B.2A	7163	473
Y66H1B.2B	3433	473
Y66H1B.2C.1	3012	2567
Y66H1B.2C.2	3006	2561
Y66H1B.2D	3198	2753
Y66H1B.2E	2806	473
Y66H1B.2F	7010	473
Y66H1B.2G	7016	473
Y66H1B.2H	7169	473
Y66H1B.2I	7169	473
Y66H1B.2J	7016	473
Y66H1B.2K	7022	473
Y66H1B.2L	7175	473
Y66H1B.2M	6711	21
Y66H1B.2N	6558	21
Y66H1B.2O	6564	21
Y66H1B.2P	6717	21
Y66H1B.2Q	6717	21
Y66H1B.2R	6564	21
Y66H1B.2S	6570	21
Y66H1B.2T	6723	21
Y66H1B.4	1783	570
Y67A10A.10	586	100
Y67A10A.11	914	459

Y67A10A.1	1956	1746
Y67A10A.14	174	47
Y67A10A.15	99	10
Y67A10A.2	777	355
Y67A10A.3A	3624	643
Y67A10A.3B	3273	262
Y67A10A.4	1071	89
Y67A10A.6A	1262	803
Y67A10A.6B	1262	803
Y67A10A.6C	1247	604
Y67A10A.7	1291	156
Y67A10A.8	1166	533
Y67A10A.9	2427	2040
Y67A6A.1	494	241
Y67A6A.2A	1662	223
Y67A6A.2B.1	1569	150
Y67A6A.2B.2	1407	1161
Y67D2.1A.1	1661	1077
Y67D2.1A.2	1652	1068
Y67D2.1B.1	1306	142
Y67D2.1B.2	1297	133
Y67D2.2	1773	712
Y67D2.3	602	323
Y67D2.4A	1171	295
Y67D2.5	654	362
Y67D2.6	2296	1791
Y67D2.7	1335	207
Y67D8A.2A.1	3898	1451
Y67D8A.2A.2	4255	1451
Y67D8A.2B.1	3958	1451
Y67D8A.2B.2	4315	1451
Y67D8A.2C	755	238
Y67D8A.2D.1	2033	1720
Y67D8A.2D.2	2390	1373
Y67D8A.2E.1	2093	1780
Y67D8A.2E.2	2450	1433
Y67D8A.2F.1	1871	1558
Y67D8A.2F.2	2228	1211
Y67D8A.2G.1	1931	1618
Y67D8A.2G.2	2288	1271
Y67D8A.2H.1	1722	1409
Y67D8A.2H.2	2079	1062
Y67D8A.2I.1	1757	1444
Y67D8A.2I.2	2114	1097

Y67D8A.2J.1	1073	760
Y67D8A.2J.2	1430	413
Y67D8A.2K.1	1004	691
Y67D8A.2K.2	1361	344
Y67D8A.2L.1	607	294
Y67D8A.2L.2	851	63
Y67D8A.3	1085	394
Y67D8A.6	142	58
Y67D8B.1	1236	880
Y67D8B.2	1156	904
Y67D8B.3	360	55
Y67D8B.4A	705	401
Y67D8B.4B	526	200
Y67D8B.6	1982	1576
Y67D8C.10A.1	3757	3069
Y67D8C.10A.2	3905	3217
Y67D8C.10A.3	3875	3187
Y67D8C.10A.4	3878	3190
Y67D8C.10B.1	4446	3069
Y67D8C.10B.2	4594	3217
Y67D8C.10B.3	4564	3187
Y67D8C.10B.4	4567	3190
Y67D8C.10C.1	3805	3069
Y67D8C.10C.2	3953	3217
Y67D8C.10C.3	3923	3187
Y67D8C.10C.4	3926	3190
Y67D8C.10E	3763	2386
Y67D8C.12	525	269
Y67D8C.13	370	251
Y67D8C.14	222	64
Y67D8C.18	196	59
Y67D8C.19	150	51
Y67D8C.20	222	62
Y67D8C.2	1620	170
Y67D8C.22A	689	143
Y67D8C.22B	232	60
Y67D8C.3A	2080	944
Y67D8C.3B.1	1936	800
Y67D8C.3B.2	2081	945
Y67D8C.3C	2398	1262
Y67D8C.5A	13092	8281
Y67D8C.5B	13098	8287
Y67D8C.5C	13101	8290
Y67D8C.5D	13107	8296

Y67D8C.5E	13101	8281
Y67D8C.5F	13107	8287
Y67D8C.5G	13110	8290
Y67D8C.5H	13116	8296
Y67D8C.6	795	360
Y67D8C.7	515	318
Y67D8C.8	413	49
Y67D8C.9A	3526	2786
Y67D8C.9B	3624	2884
Y67H2A.10A	2183	448
Y67H2A.10B	2174	448
Y67H2A.1	2343	1061
Y67H2A.2A	1772	608
Y67H2A.2B	242	50
Y67H2A.2C	881	511
Y67H2A.2D	643	174
Y67H2A.4A	2010	652
Y67H2A.4B	997	763
Y67H2A.4C	997	763
Y67H2A.4D	2010	652
Y67H2A.5	542	321
Y67H2A.6A	1411	973
Y67H2A.6B	1459	973
Y67H2A.7	2197	582
Y67H2A.8	1388	430
Y68A4A.10A	1437	163
Y68A4A.10B	834	106
Y68A4A.2	935	672
Y68A4A.3	972	310
Y68A4A.6	975	77
Y68A4A.9	978	692
Y68A4B.1	534	87
Y68A4B.2	630	102
Y68A4B.3	660	283
Y69A2AL.1	1215	83
Y69A2AL.2	474	275
Y69A2AR.12	1840	808
Y69A2AR.15	1570	171
Y69A2AR.16A	3555	2906
Y69A2AR.16B	2994	2345
Y69A2AR.16C	2066	1417
Y69A2AR.16D	883	234
Y69A2AR.18A	1167	178
Y69A2AR.18B	1040	178

Y69A2AR.18C	984	178
Y69A2AR.19A	4129	2776
Y69A2AR.19B	4078	2725
Y69A2AR.1A	1546	498
Y69A2AR.1B	1543	495
Y69A2AR.1C	1543	495
Y69A2AR.1D	1228	495
Y69A2AR.1E	1231	498
Y69A2AR.1F	752	19
Y69A2AR.1G	1066	18
Y69A2AR.1H	552	182
Y69A2AR.1I	743	372
Y69A2AR.21	552	253
Y69A2AR.22	703	94
Y69A2AR.23	552	325
Y69A2AR.25	1061	704
Y69A2AR.26	1190	160
Y69A2AR.28	456	79
Y69A2AR.29	619	286
Y69A2AR.2A	2308	1545
Y69A2AR.2B	530	118
Y69A2AR.2C	742	287
Y69A2AR.2D	1437	682
Y69A2AR.30A	945	364
Y69A2AR.30B.1	400	185
Y69A2AR.30B.2	443	228
Y69A2AR.30C	971	390
Y69A2AR.31	3348	859
Y69A2AR.32A	1298	746
Y69A2AR.32B.1	938	386
Y69A2AR.32B.2	919	367
Y69A2AR.32C	276	28
Y69A2AR.3	351	82
Y69A2AR.37	587	356
Y69A2AR.4	1839	433
Y69A2AR.45	150	26
Y69A2AR.5	1092	38
Y69A2AR.6	1007	188
Y69A2AR.7A	1470	8
Y69A2AR.7B.1	1355	4
Y69A2AR.7B.2	1432	40
Y69A2AR.7B.3	1438	46
Y69A2AR.7C.1	1432	40
Y69A2AR.7C.2	1347	3

Y69A2AR.7C.3	1438	46
Y69E1A.10	224	54
Y69E1A.2	1219	292
Y69E1A.3	1700	385
Y69E1A.5	660	65
Y69E1A.6A	1044	481
Y69E1A.6B	891	328
Y69E1A.7	1386	244
Y69E1A.8	1234	150
Y69F12A.1	1234	569
Y69F12A.2A.1	1587	94
Y69F12A.2A.2	1656	163
Y69F12A.2B.1	1650	94
Y69F12A.2B.2	1719	163
Y69H2.10A	1828	1529
Y69H2.10B	2648	1366
Y69H2.10C	1342	617
Y69H2.10D	1147	848
Y69H2.11	2860	2157
Y69H2.12	2760	847
Y69H2.14	1050	168
Y69H2.15	1395	135
Y69H2.17	513	123
Y69H2.1A	1188	174
Y69H2.1B	573	178
Y69H2.2	2766	727
Y69H2.3A	1714	232
Y69H2.3B	2503	232
Y69H2.3C	2308	232
Y69H2.3D	1432	232
Y69H2.3E	1909	232
Y69H2.3F	1665	212
Y69H2.3G	1417	232
Y69H2.3H	1894	232
Y69H2.3I	1699	232
Y69H2.6	1025	388
Y69H2.7A	1557	225
Y69H2.7B	1566	932
Y69H2.8	1027	219
Y69H2.9	1624	290
Y6B3A.1A	5149	674
Y6B3A.1B	1683	674
Y6B3B.10	1179	50
Y6B3B.11	1389	717

Y6B3B.1	5733	5520
Y6B3B.3	3324	176
Y6B3B.4	3624	2296
Y6B3B.5A	1204	240
Y6B3B.5B	1175	211
Y6B3B.7	763	425
Y6B3B.9A	1728	1032
Y6B3B.9B	714	45
Y6D11A.1	865	144
Y6D11A.2	1047	141
Y6D1A.1	1731	1241
Y6D1A.2	949	670
Y6E2A.10	867	205
Y6E2A.1	994	564
Y6E2A.2	1017	217
Y6E2A.4	1641	1190
Y6E2A.5	1346	955
Y6E2A.6	1074	246
Y6E2A.7	1066	541
Y6E2A.8	1335	437
Y6E2A.9A	1016	533
Y6E2A.9B	610	231
Y6G8.14	481	277
Y6G8.2A	2193	10
Y6G8.2B	2908	10
Y6G8.2C	3449	10
Y6G8.3	1005	114
Y6G8.5A	483	67
Y6G8.5B	836	563
Y6G8.8	1449	222
Y70C5A.2	1068	268
Y70C5A.3	2184	1014
Y70C5B.1	513	67
Y70C5C.1	3114	2445
Y70C5C.2	1245	389
Y70C5C.3	1164	1010
Y70C5C.4	1028	278
Y70C5C.6A	1138	446
Y70C5C.6B	1089	397
Y70D2A.1	1471	370
Y70D2A.2	1739	1022
Y70D2A.6	215	62
Y70G10A.2	4501	3037
Y70G10A.3.1	2418	1445

Y70G10A.3.2	2463	1490
Y71A12B.10A	1017	486
Y71A12B.10B	1675	103
Y71A12B.11	979	5
Y71A12B.12A.1	2316	786
Y71A12B.12A.2	2287	757
Y71A12B.12B	1889	359
Y71A12B.15	2277	1842
Y71A12B.17A	2779	439
Y71A12B.17B	2788	439
Y71A12B.1A	807	461
Y71A12B.1B	710	364
Y71A12B.1C.1	667	321
Y71A12B.1C.2	798	452
Y71A12B.24	363	263
Y71A12B.25	456	206
Y71A12B.2	816	625
Y71A12B.29	225	27
Y71A12B.3	1043	625
Y71A12B.31	282	23
Y71A12B.4	5971	4325
Y71A12B.5	870	258
Y71A12B.6	951	276
Y71A12B.8	1611	963
Y71A12B.9	1653	1405
Y71A12C.2	870	467
Y71D11A.1	8949	1494
Y71D11A.2A.1	808	86
Y71D11A.2A.2	924	196
Y71D11A.2B	381	154
Y71D11A.3A	1192	181
Y71D11A.3B	1311	153
Y71D11A.5	1907	75
Y71F9AL.10.1	1453	42
Y71F9AL.10.2	1532	121
Y71F9AL.1	1742	1208
Y71F9AL.12	870	590
Y71F9AL.13A.1	693	460
Y71F9AL.13A.2	709	476
Y71F9AL.13B.1	692	459
Y71F9AL.13B.2	532	299
Y71F9AL.13B.3	818	585
Y71F9AL.13B.4	694	461
Y71F9AL.13B.5	709	476

Y71F9AL.13B.6	810	577
Y71F9AL.13B.7	667	434
Y71F9AL.13B.8	656	423
Y71F9AL.13C	501	304
Y71F9AL.14.1	607	398
Y71F9AL.14.2	621	412
Y71F9AL.16	1651	491
Y71F9AL.17	3992	2567
Y71F9AL.2	1536	527
Y71F9AL.24	123	53
Y71F9AL.4	1755	541
Y71F9AL.5	682	25
Y71F9AL.6	816	267
Y71F9AL.7	934	334
Y71F9AL.8	1080	834
Y71F9AL.9	1429	640
Y71F9AM.4A	2600	1731
Y71F9AM.4B	1770	1079
Y71F9AM.5A	576	361
Y71F9AM.5B	565	350
Y71F9AM.6	1104	28
Y71F9AR.1	3399	935
Y71F9AR.2	735	234
Y71F9AR.3	2321	1183
Y71F9AR.4	432	172
Y71F9AR.7	125	49
Y71F9AR.9	125	45
Y71F9B.10A	4604	2429
Y71F9B.10B	1778	1544
Y71F9B.13A	797	552
Y71F9B.13B	642	397
Y71F9B.13C	594	349
Y71F9B.14	1398	15
Y71F9B.1	461	257
Y71F9B.15	710	384
Y71F9B.16	827	469
Y71F9B.17	139	57
Y71F9B.19	293	147
Y71F9B.2	1031	719
Y71F9B.3	767	147
Y71F9B.4.1	526	122
Y71F9B.4.2	481	77
Y71F9B.5A.1	1901	1539
Y71F9B.5A.2	2182	1836

Y71F9B.5A.3	1920	1574
Y71F9B.5B.1	1881	1539
Y71F9B.5B.2	2178	1836
Y71F9B.5B.3	1916	1574
Y71F9B.6	1612	600
Y71F9B.7	2138	1551
Y71F9B.8	1842	279
Y71F9B.9A	1057	428
Y71F9B.9B	1042	428
Y71G10AL.1A	2369	1742
Y71G10AL.1B	3008	1755
Y71G10AR.4	1660	111
Y71G12A.2A	2735	403
Y71G12A.2B	3557	403
Y71G12A.2C	984	534
Y71G12A.3	3341	1095
Y71G12A.4	1392	558
Y71G12B.10	1064	587
Y71G12B.11A	8313	997
Y71G12B.11B	3153	997
Y71G12B.11C	6332	94
Y71G12B.11D	5182	3903
Y71G12B.12A.1	1003	547
Y71G12B.12A.2	1027	571
Y71G12B.12C.1	997	541
Y71G12B.12C.2	1021	565
Y71G12B.13	1527	726
Y71G12B.14	349	97
Y71G12B.15A.1	1077	585
Y71G12B.15A.2	1332	840
Y71G12B.15B	1038	546
Y71G12B.16	1287	906
Y71G12B.17	1070	753
Y71G12B.18A	1040	259
Y71G12B.18B	912	131
Y71G12B.1A	1539	453
Y71G12B.1B	1533	447
Y71G12B.20A	2385	590
Y71G12B.20B	840	177
Y71G12B.20C	1837	105
Y71G12B.20D	1694	455
Y71G12B.21	641	267
Y71G12B.22	851	146
Y71G12B.23A	911	216

Y71G12B.23B	637	216
Y71G12B.24A	1661	1366
Y71G12B.24B	694	415
Y71G12B.25A	1414	353
Y71G12B.25B	965	510
Y71G12B.26A	1237	6
Y71G12B.26B	243	43
Y71G12B.27	411	157
Y71G12B.2	979	600
Y71G12B.30A	1079	509
Y71G12B.30B	839	269
Y71G12B.30C	801	231
Y71G12B.31A	1272	471
Y71G12B.31B	495	246
Y71G12B.32	863	552
Y71G12B.33A	450	11
Y71G12B.33B	705	11
Y71G12B.3	470	255
Y71G12B.35	1066	471
Y71G12B.37	149	51
Y71G12B.39	643	346
Y71G12B.4	1116	364
Y71G12B.41	268	148
Y71G12B.44	1324	770
Y71G12B.5A	3049	2332
Y71G12B.5B	3773	2332
Y71G12B.6A	1242	222
Y71G12B.6B.1	300	27
Y71G12B.6B.2	391	56
Y71G12B.8	2473	1801
Y71G12B.9A	2626	1396
Y71G12B.9B	1723	1396
Y71G12B.9C	1194	6
Y71H10A.1A	2737	122
Y71H10A.1B.1	3326	113
Y71H10A.1B.2	3192	724
Y71H10A.2.1	1890	296
Y71H10A.2.2	1974	296
Y71H10A.2.3	2008	296
Y71H10A.2.4	1973	296
Y71H10A.2.5	2012	296
Y71H10B.1A.1	2193	1261
Y71H10B.1A.2	2139	1207
Y71H10B.1B	2085	1153

Y71H10B.1C	2290	1358
Y71H2AL.1	703	493
Y71H2AL.2	386	106
Y71H2AM.10	2907	2433
Y71H2AM.11	1631	135
Y71H2AM.1.1	1776	983
Y71H2AM.1.2	1778	983
Y71H2AM.12	919	277
Y71H2AM.13	1726	27
Y71H2AM.14A.1	1296	576
Y71H2AM.14A.2	1142	576
Y71H2AM.14B.1	1282	562
Y71H2AM.14B.2	1128	562
Y71H2AM.15A	2648	1270
Y71H2AM.15B	2612	1234
Y71H2AM.16	1218	114
Y71H2AM.17	1237	478
Y71H2AM.19A.1	2193	250
Y71H2AM.19A.2	2077	250
Y71H2AM.19B	3655	445
Y71H2AM.20A.1	1224	956
Y71H2AM.20A.2	1269	1001
Y71H2AM.20B	662	397
Y71H2AM.22A	1651	916
Y71H2AM.22B	583	276
Y71H2AM.23.1	1703	221
Y71H2AM.23.2	1931	221
Y71H2AM.24	953	717
Y71H2AM.25	915	45
Y71H2AM.2	756	113
Y71H2AM.3	1452	129
Y71H2AM.4	493	270
Y71H2AM.5.1	548	119
Y71H2AM.5.2	632	204
Y71H2AM.6A	888	113
Y71H2AM.6B	865	25
Y71H2AM.7	1165	65
Y71H2AM.8	1509	171
Y71H2AM.9	1885	970
Y71H2AR.1	542	82
Y71H2AR.2	1038	30
Y71H2AR.3	690	179
Y71H2B.10A	3112	1716
Y71H2B.10B	903	585

Y71H2B.10C	2496	1716
Y71H2B.11	717	549
Y71H2B.1	524	262
Y71H2B.2	1307	32
Y71H2B.3	1695	593
Y71H2B.4	381	139
Y71H2B.5	3025	141
Y71H2B.6	799	577
Y71H2B.7.1	1332	56
Y71H2B.7.2	1402	126
Y71H2B.8	858	640
Y71H9A.1	2202	2051
Y71H9A.2	1082	683
Y71H9A.3.1	1268	239
Y71H9A.3.2	1244	27
Y72A10A.1	981	146
Y73B3A.10	707	237
Y73B3A.11	396	211
Y73B3A.1	1981	95
Y73B3A.12	405	136
Y73B3A.13	1257	248
Y73B3A.14	594	88
Y73B3A.15	1350	415
Y73B3A.16	834	218
Y73B3A.17	2199	1984
Y73B3A.18A	1566	1360
Y73B3A.18B	1673	1445
Y73B3A.3	2025	1104
Y73B3A.5	933	352
Y73B3A.7	618	207
Y73B3A.8	183	35
Y73B3A.9	948	753
Y73B3B.3	186	59
Y73B6A.1A	1303	428
Y73B6A.3	381	71
Y73B6A.4	1499	728
Y73B6A.5A.1	3196	1110
Y73B6A.5A.2	3557	1471
Y73B6A.5B	3268	1182
Y73B6A.5C	3029	1011
Y73B6A.5D	3217	1131
Y73B6A.5E	2404	960
Y73B6A.5F	2368	924
Y73B6BL.10	987	514

Y73B6BL.11	987	361
Y73B6BL.1	2360	718
Y73B6BL.13	444	81
Y73B6BL.14	369	34
Y73B6BL.18A.1	3706	1793
Y73B6BL.18A.2	3628	1793
Y73B6BL.18A.3	3623	1793
Y73B6BL.18A.4	3622	1793
Y73B6BL.18B.1	3712	1793
Y73B6BL.18B.2	3634	1793
Y73B6BL.18B.3	3629	1793
Y73B6BL.18B.4	3628	1793
Y73B6BL.19	1825	1287
Y73B6BL.2	1255	906
Y73B6BL.21A	1231	892
Y73B6BL.21B	710	371
Y73B6BL.21C	518	179
Y73B6BL.22	318	71
Y73B6BL.23	1105	101
Y73B6BL.24	1233	811
Y73B6BL.25	1365	1165
Y73B6BL.26A	1287	561
Y73B6BL.26B	1353	627
Y73B6BL.270	292	98
Y73B6BL.27	583	58
Y73B6BL.276	149	72
Y73B6BL.277	128	24
Y73B6BL.288	588	196
Y73B6BL.289	236	42
Y73B6BL.29A	1100	405
Y73B6BL.29B.1	646	91
Y73B6BL.29B.2	840	145
Y73B6BL.30A	611	322
Y73B6BL.30B	439	150
Y73B6BL.3	1039	660
Y73B6BL.31A	1529	949
Y73B6BL.31B	1410	830
Y73B6BL.32	571	25
Y73B6BL.33A	2239	931
Y73B6BL.33B	1969	661
Y73B6BL.34	994	15
Y73B6BL.35A	511	45
Y73B6BL.36	783	612
Y73B6BL.37	1134	260

Y73B6BL.38	1725	1129
Y73B6BL.39	999	355
Y73B6BL.40	1008	96
Y73B6BL.41	1008	498
Y73B6BL.4	1937	969
Y73B6BL.42	1635	770
Y73B6BL.43	683	62
Y73B6BL.44	1001	214
Y73B6BL.47	629	171
Y73B6BL.5A.1	2023	387
Y73B6BL.5A.2	2033	397
Y73B6BL.5B	1890	825
Y73B6BL.5C	1952	335
Y73B6BL.5D.1	2070	387
Y73B6BL.5D.2	2080	397
Y73B6BL.5E	2300	335
Y73B6BL.6A.1	2004	895
Y73B6BL.6A.2	2003	894
Y73B6BL.6A.3	2003	894
Y73B6BL.6A.4	1965	856
Y73B6BL.6A.5	1988	879
Y73B6BL.6A.6	1961	852
Y73B6BL.6A.7	1978	869
Y73B6BL.6B.1	2013	894
Y73B6BL.6B.2	2012	893
Y73B6BL.6B.3	2012	893
Y73B6BL.6B.4	1974	855
Y73B6BL.6B.5	1997	878
Y73B6BL.6B.6	1970	851
Y73B6BL.6B.7	1987	868
Y73B6BL.7	2724	58
Y73B6BL.9A	759	233
Y73B6BL.9B	509	109
Y73B6BR.1A	1740	1299
Y73B6BR.1B	1431	569
Y73C8A.1	1361	891
Y73C8B.2	1003	609
Y73C8B.3	1211	643
Y73C8B.4	1209	459
Y73C8B.5A	294	46
Y73C8B.5B	531	208
Y73C8B.8	922	238
Y73C8C.10	1332	1140
Y73C8C.11	1011	464

Y73C8C.12	204	83
Y73C8C.2	1182	695
Y73C8C.3	2481	199
Y73C8C.4	1071	687
Y73C8C.5	996	851
Y73C8C.6	1014	462
Y73C8C.7	1725	1099
Y73C8C.8	2873	230
Y73C8C.9	1053	102
Y73E7A.1A	823	138
Y73E7A.1B	818	132
Y73E7A.2	1501	910
Y73E7A.3A	1661	103
Y73E7A.3B.1	1132	103
Y73E7A.3B.2	1630	103
Y73E7A.3C	1358	254
Y73E7A.3D.1	829	254
Y73E7A.3D.2	1327	254
Y73E7A.4	756	211
Y73E7A.6.1	581	179
Y73E7A.6.2	607	179
Y73E7A.7A	1327	674
Y73E7A.7B	838	185
Y73E7A.8	2420	201
Y73E7A.9A	1677	425
Y73E7A.9B	1053	645
Y73E7A.9C	900	492
Y73E7A.9D	552	144
Y73F4A.2	832	185
Y73F4A.3	598	357
Y73F8A.10	618	368
Y73F8A.11	1256	69
Y73F8A.1169	196	80
Y73F8A.1174	633	40
Y73F8A.13A	558	435
Y73F8A.13B	682	216
Y73F8A.1	4475	2488
Y73F8A.18	1164	798
Y73F8A.19	2100	15
Y73F8A.20	1694	309
Y73F8A.2	1305	894
Y73F8A.21A	2019	1416
Y73F8A.21B	2006	1403
Y73F8A.21C	1575	1365

Y73F8A.22	918	452
Y73F8A.23	801	586
Y73F8A.24A	1538	961
Y73F8A.24B	1406	829
Y73F8A.24C	1550	973
Y73F8A.24D	1418	841
Y73F8A.25A	2387	118
Y73F8A.25B	1448	179
Y73F8A.26	1960	1079
Y73F8A.27	670	101
Y73F8A.30A	1745	29
Y73F8A.30B	1757	1639
Y73F8A.32B	829	219
Y73F8A.33	2999	2108
Y73F8A.34A.1	1584	916
Y73F8A.34A.2	1698	1030
Y73F8A.34C.1	1698	1030
Y73F8A.34C.2	1555	887
Y73F8A.34D	1043	375
Y73F8A.35A	2144	320
Y73F8A.35B	1892	68
Y73F8A.36	372	66
Y73F8A.3	927	164
Y73F8A.5	3441	3043
Y73F8A.6	1071	26
Y73F8A.8	1263	9
Y73F8A.9	1260	31
Y74C10AL.2.1	660	2
Y74C10AL.2.2	672	14
Y74C10AR.1	1259	863
Y74C10AR.3	2115	999
Y74C9A.1	732	363
Y74C9A.2A.1	652	49
Y74C9A.2A.2	825	222
Y74C9A.2A.3	704	101
Y74C9A.2B.1	715	112
Y74C9A.2B.2	554	116
Y74C9A.2B.3	645	44
Y74C9A.2B.4	711	108
Y74C9A.3	889	606
Y74C9A.4A	2117	19
Y74C9A.4B	2123	16
Y74C9A.4C	2030	130
Y74C9A.4D	1408	361

Y74C9A.5.1	1886	1004
Y74C9A.5.2	2110	1004
Y74C9A.6	286	65
Y74E4A.1A	1472	352
Y74E4A.1B	1477	352
Y75B12B.10	1065	837
Y75B12B.11	375	94
Y75B12B.13	232	60
Y75B12B.1A	966	726
Y75B12B.1B	609	487
Y75B12B.1C	576	427
Y75B12B.2.1	635	28
Y75B12B.2.2	1044	437
Y75B12B.6	2837	817
Y75B12B.7	1050	823
Y75B7AL.1	1880	49
Y75B7AL.2	1588	394
Y75B7AL.3	1237	705
Y75B7AL.4A	3381	2088
Y75B7AL.4B	858	532
Y75B7AR.1	550	351
Y75B7B.1	1192	672
Y75B7B.2	879	11
Y75B8A.10	1067	78
Y75B8A.1	1198	316
Y75B8A.11B	514	338
Y75B8A.12	2166	1353
Y75B8A.13	4397	244
Y75B8A.14	947	191
Y75B8A.16	1673	761
Y75B8A.18A	500	98
Y75B8A.18B	361	91
Y75B8A.19	2091	1404
Y75B8A.20	669	245
Y75B8A.21	976	703
Y75B8A.22.1	4144	193
Y75B8A.22.2	4180	193
Y75B8A.23	310	133
Y75B8A.24	6545	168
Y75B8A.25	2708	365
Y75B8A.26	4424	4056
Y75B8A.27	1474	465
Y75B8A.28	1262	249
Y75B8A.29.1	1217	114

Y75B8A.29.2	1135	32
Y75B8A.2A	1548	153
Y75B8A.2B	1030	153
Y75B8A.30	1601	292
Y75B8A.31	1011	766
Y75B8A.32	1507	46
Y75B8A.3	2719	115
Y75B8A.33	1026	749
Y75B8A.34	1035	175
Y75B8A.35A.1	1803	357
Y75B8A.35A.2	1880	434
Y75B8A.35B	1752	51
Y75B8A.35C	916	228
Y75B8A.37	321	49
Y75B8A.4	2364	1457
Y75B8A.44	303	160
Y75B8A.5	1336	689
Y75B8A.60	727	552
Y75B8A.6	1122	764
Y75B8A.61	440	245
Y75B8A.7	2023	224
Y75B8A.8	2278	1955
Y75B8A.9A	1967	1552
Y75B8A.9B	1364	1125
Y75D11A.1	216	96
Y75D11A.2	543	227
Y75D11A.3	790	221
Y75D11A.7	340	54
Y76A2A.1	921	643
Y76A2A.2A	3957	991
Y76A2A.2B	3555	594
Y76A2B.1A	3649	2810
Y76A2B.1B	3800	156
Y76A2B.1C	3430	156
Y76A2B.1D	3279	2810
Y76A2B.2	2415	88
Y76A2B.3	2138	299
Y76A2B.4	652	165
Y76A2B.5.1	1112	781
Y76A2B.5.2	1127	796
Y76A2B.6	2251	504
Y76B12C.1A	2553	2298
Y76B12C.1B	639	384
Y76B12C.2	4463	70

Y76B12C.3A	597	166
Y76B12C.3B	453	132
Y76B12C.6A	1696	1600
Y76B12C.6B	1705	1609
Y76B12C.7A.1	4480	3893
Y76B12C.7A.2	4485	3893
Y76B12C.7B.1	3907	3320
Y76B12C.7B.2	3912	3320
Y76B12C.7C.1	1174	587
Y76B12C.7C.2	1179	587
Y76B12C.7D	451	200
Y76B12C.8	320	129
Y76B12C.9	656	203
Y77E11A.10	2058	55
Y77E11A.11A.1	2524	258
Y77E11A.11A.2	2558	292
Y77E11A.11B	1036	342
Y77E11A.12A	1755	204
Y77E11A.12B	2070	519
Y77E11A.12C	388	55
Y77E11A.13A	1137	172
Y77E11A.13B	863	172
Y77E11A.14A.1	243	30
Y77E11A.14A.2	382	169
Y77E11A.14B	483	201
Y77E11A.14C	432	150
Y77E11A.15	924	34
Y77E11A.16	1179	58
Y77E11A.1A.1	1663	360
Y77E11A.1A.2	1709	406
Y77E11A.1B.1	1110	571
Y77E11A.1B.2	1329	26
Y77E11A.1B.3	1321	23
Y77E11A.1B.4	1472	169
Y77E11A.1C.1	1098	559
Y77E11A.1C.2	1329	26
Y77E11A.1C.3	1321	23
Y77E11A.2	1284	853
Y77E11A.23	1035	421
Y77E11A.3	390	127
Y77E11A.4	640	253
Y77E11A.6A	423	144
Y77E11A.6B	300	83
Y77E11A.7A	2160	72

Y77E11A.7B	2155	73
Y77E11A.7C	2075	71
Y77E11A.7D	2205	72
Y77E11A.7E	2108	71
Y77E11A.7F	2120	71
Y77E11A.7G	2166	72
Y77E11A.7H	2161	73
Y77E11A.7I	2081	71
Y77E11A.7J	2211	72
Y77E11A.7K	2114	71
Y77E11A.7L	2126	71
Y77E11A.8	1053	453
Y77E11A.9	891	517
Y79H2A.11	2688	1051
Y79H2A.12	528	177
Y79H2A.1A	1808	1072
Y79H2A.1B	1550	226
Y79H2A.1C	1735	999
Y79H2A.1D	1388	608
Y79H2A.1E	1754	1018
Y79H2A.2A	602	406
Y79H2A.2B	536	342
Y79H2A.3A	6047	5672
Y79H2A.3B	3292	330
Y79H2A.3C	3271	330
Y79H2A.3D	6026	5651
Y79H2A.3E	6011	5636
Y79H2A.3F	4615	330
Y79H2A.3G	4111	3736
Y79H2A.4	600	310
Y79H2A.6	1376	378
Y7A5A.10	270	115
Y7A5A.1.1	1705	28
Y7A5A.1.2	1721	44
Y7A5A.13	198	36
Y7A5A.17	149	49
Y7A5A.20	372	91
Y7A5A.23	281	52
Y7A5A.2	551	81
Y7A5A.3	819	522
Y7A5A.5	171	28
Y7A5A.6	393	235
Y7A5A.7	1152	840
Y7A5A.8	219	1

Y7A5A.9	618	264
Y7A9A.1	1985	1199
Y7A9A.79A	405	280
Y7A9A.80	515	130
Y7A9C.8	933	666
Y7A9C.9	963	700
Y7A9D.1	561	108
Y80D3A.10	392	45
Y80D3A.1	1595	95
Y80D3A.2A	4872	1124
Y80D3A.2B	1221	84
Y80D3A.2C	765	145
Y80D3A.2D	2661	1160
Y80D3A.3	967	168
Y80D3A.4	1313	685
Y80D3A.5	1685	337
Y80D3A.7A	2761	761
Y80D3A.7B	2128	128
Y80D3A.8	3828	3488
Y80D3A.9	849	166
Y80D4G.1.1	936	634
Y80D4G.1.2	764	369
Y80E2A.1	147	45
Y81B9A.1	1740	571
Y81B9A.2	810	51
Y81B9A.3	394	60
Y81B9A.4	618	208
Y81G3A.3A	5628	675
Y81G3A.3B	5637	675
Y81G3A.4A	976	176
Y81G3A.4B	726	386
Y81G3A.5A	972	77
Y81G3A.5B	778	621
Y81G3A.6	421	149
Y82E9BL.10	1442	1165
Y82E9BL.11	1141	887
Y82E9BL.12	1027	373
Y82E9BL.13	997	723
Y82E9BL.14	956	715
Y82E9BL.15	822	146
Y82E9BL.17	975	58
Y82E9BL.18	1015	5
Y82E9BL.20	1059	736
Y82E9BL.2	684	211

Y82E9BL.3	759	240
Y82E9BL.4	877	64
Y82E9BL.5	753	263
Y82E9BL.7	987	87
Y82E9BL.8	1089	147
Y82E9BR.11	645	346
Y82E9BR.1	1886	758
Y82E9BR.12	1440	886
Y82E9BR.13	868	69
Y82E9BR.14A	922	267
Y82E9BR.14B	1141	486
Y82E9BR.15	508	96
Y82E9BR.16A	1847	133
Y82E9BR.16B	703	173
Y82E9BR.17A	1545	161
Y82E9BR.17B.1	481	261
Y82E9BR.17B.2	833	135
Y82E9BR.18	2987	1253
Y82E9BR.19	1254	777
Y82E9BR.2	1785	1124
Y82E9BR.21	974	116
Y82E9BR.23	774	229
Y82E9BR.25	915	397
Y82E9BR.30	145	33
Y82E9BR.3.1	599	6
Y82E9BR.3.2	605	12
Y82E9BR.3.3	380	6
Y82E9BR.3.4	530	6
Y82E9BR.4	1121	579
Y82E9BR.5	373	47
Y82E9BR.6	141	25
Y82E9BR.8	1173	554
Y82E9BR.9	420	121
Y87G2A.10A	726	296
Y87G2A.10B	362	59
Y87G2A.11	1437	210
Y87G2A.1	2469	2063
Y87G2A.13	1787	1018
Y87G2A.14	788	134
Y87G2A.15	632	65
Y87G2A.16	1086	243
Y87G2A.17	974	448
Y87G2A.18	533	97
Y87G2A.19	615	226

Y87G2A.20	594	303
Y87G2A.2	1045	524
Y87G2A.3A	1633	329
Y87G2A.3B	1633	329
Y87G2A.4	946	174
Y87G2A.5	3568	2370
Y87G2A.6.1	2248	1202
Y87G2A.6.2	2266	1220
Y87G2A.7	1600	1132
Y87G2A.8A.1	1820	55
Y87G2A.8A.2	1870	105
Y87G2A.8A.3	1838	73
Y87G2A.8B	1963	198
Y87G2A.9	609	28
Y8A9A.2	4160	475
Y8A9A.3	477	168
Y8A9A.4	552	359
Y8A9A.5	849	14
Y8A9A.6	320	158
Y8G1A.1B	696	54
Y8G1A.2	1437	802
Y92C3A.3	510	161
Y92C3A.4	216	53
Y92C3B.1	386	192
Y92C3B.2A	1717	438
Y92C3B.2B.1	682	254
Y92C3B.2B.2	756	328
Y92C3B.2B.3	803	375
Y92C3B.2C	1651	83
Y92C3B.2D	1642	363
Y92C3B.3A	2113	17
Y92C3B.3B	1918	75
Y92H12A.1A	2615	596
Y92H12A.1B	1711	608
Y92H12A.1C	1581	478
Y92H12A.1D	678	403
Y92H12A.2A	2589	449
Y92H12A.2B	1797	1012
Y92H12A.4A	3159	2954
Y92H12A.4B	3627	2954
Y92H12A.4C	2667	2462
Y92H12A.4D	2007	1802
Y92H12A.5A	4128	3324
Y92H12A.5B	4137	3324

Y92H12BL.1A	1677	673
Y92H12BL.1B	896	218
Y92H12BL.4	1194	2
Y92H12BL.5	719	253
Y92H12BM.1	687	294
Y92H12BR.2	703	242
Y92H12BR.3A	2319	1346
Y92H12BR.3B	816	260
Y92H12BR.6	1245	349
Y92H12BR.7	1725	240
Y92H12BR.8	1010	56
Y94A7B.11	210	59
Y94A7B.1	981	271
Y94A7B.4	984	676
Y94A7B.5	984	262
Y94A7B.6	1008	707
Y94A7B.7	996	239
Y94A7B.8	1032	680
Y94A7B.9	999	670
Y94H6A.10	771	446
Y94H6A.1	1596	465
Y94H6A.11A	980	3
Y94H6A.11B	186	49
Y94H6A.12A	442	49
Y94H6A.12B	294	1
Y94H6A.16	392	137
Y94H6A.17	172	35
Y94H6A.2	1282	504
Y94H6A.3	1368	62
Y94H6A.4	677	146
Y94H6A.5A	2601	721
Y94H6A.6	666	63
Y94H6A.7	495	21
Y94H6A.8.1	539	225
Y94H6A.8.2	618	225
Y94H6A.9A	1187	96
Y94H6A.9B	850	344
Y94H6A.9C	351	68
Y94H6A.9D	780	96
Y95B8A.10A	2996	519
Y95B8A.10B	2493	519
Y95B8A.10C	1461	1190
Y95B8A.11A	1242	811
Y95B8A.11B	1233	802

Y95B8A.11C	324	218
Y95B8A.1	2226	921
Y95B8A.12A	1902	255
Y95B8A.12B	1868	1454
Y95B8A.12C	1913	266
Y95B8A.12D	1895	248
Y95B8A.12E	1871	1457
Y95B8A.12F	1889	1475
Y95B8A.16	150	40
Y95B8A.2	897	209
Y95B8A.4	927	624
Y95B8A.5A	1229	9
Y95B8A.5B	532	202
Y95B8A.5C	499	169
Y95B8A.6A.1	1240	464
Y95B8A.6A.2	1394	618
Y95B8A.6B.2	1240	464
Y95B8A.6C	1482	201
Y95B8A.6D	772	201
Y95B8A.8	2432	70
Y95D11A.1	556	143
Y95D11A.3	978	81
Y97E10AL.2.1	1132	592
Y97E10AL.2.2	1218	678
Y97E10AL.2.3	1137	592
Y97E10AL.3	1131	133
Y97E10AM.1	677	556
Y97E10AR.1.1	2434	69
Y97E10AR.1.2	2446	81
Y97E10AR.2A	2817	527
Y97E10AR.2B	2192	354
Y97E10AR.3	1035	280
Y97E10AR.4	1717	1539
Y97E10AR.5	647	249
Y97E10AR.6	1585	1194
Y97E10AR.7.1	524	133
Y97E10AR.7.2	529	133
Y97E10AR.8	555	366
Y97E10B.10	1229	688
Y97E10B.1	1556	402
Y97E10B.3	921	680
Y97E10B.4	825	386
Y97E10B.7A	2007	241
Y97E10B.7B	1962	196

Y97E10B.9	933	272
Y97E10C.1.1	842	102
Y97E10C.1.2	908	168
Y9C12A.1	790	188
Y9C2UA.1A	1252	618
Y9C2UA.1B	1296	662
Y9C2UA.1C	1374	740
Y9C2UA.2	312	40
Y9C9A.10	1023	879
Y9C9A.1	1054	753
Y9C9A.11	1042	159
Y9C9A.12	906	40
Y9C9A.13	2088	814
Y9C9A.15	966	82
Y9C9A.16A	1185	635
Y9C9A.16B	1368	818
Y9C9A.17	1020	729
Y9C9A.18	1011	918
Y9C9A.2	1029	698
Y9C9A.3	1044	321
Y9C9A.5	1026	433
Y9C9A.6	1056	274
Y9C9A.7	1023	886
Y9C9A.8	1280	1007
Y9C9A.9	1017	279
Y9D1A.1	1371	1252
Y9D1A.2	456	337
ZC101.1	2718	594
ZC101.2A	7955	1407
ZC101.2B	3951	1407
ZC101.2C	7394	1407
ZC101.2D	7874	1407
ZC101.2E	10371	1407
ZC101.2F	7676	1407
ZC101.2I	7097	4849
ZC101.2J	7376	1407
ZC101.2K	7397	1407
ZC101.2L	7088	2357
ZC101.2M	7658	1407
ZC101.2N	7673	1407
ZC101.2O	7946	1407
ZC101.2P	1032	306
ZC101.2Q	692	167
ZC101.3	1684	754

ZC116.1A	963	285
ZC116.1B	963	285
ZC116.2	444	43
ZC116.3	12205	10940
ZC123.11	183	32
ZC123.1	2390	78
ZC123.3A	5022	2595
ZC123.3B	3902	1475
ZC123.3C	3848	1421
ZC123.3D	3554	1127
ZC123.3E	3290	863
ZC123.3F	2796	611
ZC123.4A	1713	252
ZC123.4B	1629	252
ZC123.4C	1286	1006
ZC123.7	148	9
ZC123.9	271	79
ZC13.10	936	557
ZC13.11	147	32
ZC13.12	150	70
ZC13.1A	1420	661
ZC13.1B	1204	661
ZC13.2	1550	550
ZC132.2	312	180
ZC132.3	1813	194
ZC132.4	2496	1568
ZC132.8	501	245
ZC132.9	1101	464
ZC13.3	2456	1848
ZC13.4	1219	122
ZC142.1	1074	97
ZC142.2	1014	14
ZC15.1	2628	1244
ZC15.2	1002	383
ZC15.3	1165	232
ZC155.1.1	1131	488
ZC155.1.2	1129	486
ZC155.2	691	489
ZC155.3	2852	861
ZC155.4	1318	917
ZC15.5	585	110
ZC155.5A	777	447
ZC155.5B	754	424
ZC155.7	1326	201

ZC155.8	299	174
ZC15.6	736	489
ZC15.7	2004	890
ZC15.8	383	74
ZC168.1	2729	966
ZC168.2	327	152
ZC168.3A	1317	802
ZC168.3B	352	181
ZC168.4.1	1483	461
ZC168.4.2	1587	519
ZC168.4.3	1554	486
ZC168.6	455	21
ZC190.10A	280	120
ZC190.1.1	1376	700
ZC190.1.2	1463	787
ZC190.14	137	30
ZC190.15	210	59
ZC190.16	138	5
ZC190.2	1206	512
ZC190.4	2957	370
ZC190.5	1017	493
ZC190.6	1617	231
ZC190.7	519	91
ZC190.9	216	96
ZC196.2	1038	346
ZC196.3	1326	971
ZC196.4	1699	524
ZC196.5	1707	330
ZC196.6	1614	1121
ZC196.7	3246	1852
ZC204.11	741	217
ZC204.15	1119	256
ZC204.17	757	213
ZC204.2	1383	962
ZC204.3	786	163
ZC204.4A	1378	741
ZC204.4B	1041	741
ZC204.5	1035	520
ZC204.6	513	253
ZC21.10.1	514	1
ZC21.10.2	552	36
ZC21.12	149	21
ZC21.2A	3183	2607
ZC21.2B	3243	2667

ZC21.3A	1020	205
ZC21.3B	1375	563
ZC21.3C	767	70
ZC21.3D	870	71
ZC21.3E	1113	304
ZC21.6A	1454	252
ZC21.6B	1617	550
ZC239.10	969	851
ZC239.12	863	458
ZC239.13A	422	278
ZC239.13B	319	100
ZC239.14	745	469
ZC239.20	522	359
ZC239.21	450	167
ZC239.22	567	212
ZC239.2	627	266
ZC239.4	841	457
ZC239.5	671	44
ZC239.7	3348	1459
ZC239.9	1013	414
ZC247.2	2329	1039
ZC247.3	1528	865
ZC250.10	204	28
ZC250.11	212	76
ZC250.1A	1836	1003
ZC250.1B	1866	1033
ZC250.2	1430	911
ZC250.3	1035	39
ZC250.4	791	150
ZC250.5	721	215
ZC262.2A	834	343
ZC262.2B	593	483
ZC262.3A	2684	2038
ZC262.3B	2118	1748
ZC262.4	575	344
ZC262.5	165	54
ZC262.7	516	115
ZC262.8.1	663	307
ZC262.8.2	1023	863
ZC266.1	1363	272
ZC302.1.1	2433	69
ZC302.1.2	2405	41
ZC302.2A	1741	716
ZC302.2B	1499	707

ZC302.3	1045	130
ZC308.1A	4035	2828
ZC308.1B	3631	2038
ZC308.1C	3740	2533
ZC308.1D	3651	2444
ZC308.4A	1127	686
ZC308.4B	1079	638
ZC308.5	559	171
ZC317.1	1023	301
ZC317.2	479	293
ZC317.3	1884	447
ZC317.4	954	357
ZC317.5	951	338
ZC317.6	1134	980
ZC317.7	1882	1241
ZC317.8	217	64
ZC328.1	713	433
ZC328.2	1588	580
ZC328.3A	2441	1663
ZC328.3B	1491	713
ZC328.4	1349	56
ZC328.5	596	27
ZC334.10	256	93
ZC334.11.1	293	84
ZC334.11.2	456	94
ZC334.13	312	91
ZC334.1	486	234
ZC334.16	347	66
ZC334.2	658	223
ZC334.7	659	396
ZC334.9	260	73
ZC373.1A	2286	1179
ZC373.1B	1157	206
ZC373.2	376	181
ZC373.3A	966	270
ZC373.3B	954	258
ZC373.4	3985	1154
ZC373.5	1289	314
ZC373.6	818	422
ZC373.7	1076	297
ZC374.1	1188	319
ZC374.2	2122	1852
ZC376.1	2103	642
ZC376.2A	2105	634

ZC376.2B	2081	610
ZC376.3	2194	363
ZC376.4	880	462
ZC376.5.1	1794	852
ZC376.5.2	1815	873
ZC376.6A	3678	2131
ZC376.6B	3690	2131
ZC376.7A.1	1781	90
ZC376.7A.2	1896	205
ZC376.7B.1	1733	90
ZC376.7B.2	1823	180
ZC376.7C.1	1739	90
ZC376.7C.2	1829	180
ZC376.7D	1588	51
ZC376.8	927	459
ZC395.10.1	732	443
ZC395.10.2	754	465
ZC395.2	744	276
ZC395.3A.1	1646	601
ZC395.3A.2	1773	728
ZC395.3B	1764	719
ZC395.4	536	281
ZC395.5	379	93
ZC395.6	1389	147
ZC395.7	655	340
ZC395.8	2383	818
ZC404.10	900	411
ZC404.11	1327	646
ZC404.12	1146	769
ZC404.13	1095	725
ZC404.1	555	188
ZC404.15	615	27
ZC404.16	392	2
ZC404.17	149	51
ZC404.2	230	12
ZC404.3A	1890	1366
ZC404.3B	585	75
ZC404.5	1588	672
ZC404.8.1	1524	900
ZC404.8.2	1543	919
ZC404.9	2930	190
ZC410.1A	1467	422
ZC410.1B	1116	71
ZC410.1C	1337	1188

ZC410.1D	1458	413
ZC410.1E	1015	779
ZC410.2	1454	806
ZC410.3A	1806	891
ZC410.3B	1666	751
ZC410.4A	2534	111
ZC410.4B	2470	111
ZC410.5A	691	315
ZC410.5C.1	588	208
ZC410.5C.2	354	74
ZC410.5C.3	654	20
ZC410.7A.1	1940	256
ZC410.7A.2	1952	268
ZC410.7B	1040	244
ZC410.7C	1034	244
ZC412.10	405	257
ZC412.11	150	30
ZC412.14	146	39
ZC412.1A	1575	1232
ZC412.1B	326	6
ZC412.2	3423	1064
ZC412.3.1	814	593
ZC412.3.2	818	597
ZC412.3.3	914	693
ZC412.4	789	456
ZC412.5	507	38
ZC412.8	252	44
ZC412.9	591	149
ZC416.1	1002	9
ZC416.2	378	35
ZC416.4	1217	338
ZC416.6A	1994	1007
ZC416.6B	1932	945
ZC416.8A	1882	815
ZC416.8B	2217	236
ZC416.9	139	35
ZC434.10	711	454
ZC434.2	644	104
ZC434.3	934	119
ZC434.4.1	918	178
ZC434.4.2	932	192
ZC434.5.1	3550	3296
ZC434.5.2	3531	3296
ZC434.6A	2375	677

ZC434.6B	2381	677
ZC434.7A	1734	134
ZC434.7B.1	654	133
ZC434.7B.2	571	133
ZC434.7B.3	659	135
ZC434.8.1	1183	14
ZC434.8.2	1459	290
ZC434.9A	2068	895
ZC434.9B	1924	895
ZC434.9C	2074	895
ZC434.9D	2221	895
ZC434.9E	2509	895
ZC443.1	1046	45
ZC443.3	1527	1024
ZC443.4	1899	550
ZC443.5	1674	187
ZC443.6	1783	1153
ZC443.7	789	142
ZC449.1	1630	1454
ZC449.2	1507	100
ZC449.3A.1	1646	682
ZC449.3A.2	1586	622
ZC449.3B	1763	799
ZC449.4	663	284
ZC449.5	2037	212
ZC449.6	1284	619
ZC449.7	699	349
ZC449.8	537	43
ZC449.9	281	171
ZC455.10	1002	386
ZC455.1A	2228	695
ZC455.1B	2689	378
ZC455.1C	2863	552
ZC455.1E	2785	496
ZC455.1F	2611	322
ZC455.3	1599	111
ZC455.4	1688	507
ZC455.5A	1698	1142
ZC455.5B	1603	1137
ZC455.6A	1632	321
ZC455.6B	480	235
ZC455.7A	921	682
ZC455.7B	987	748
ZC455.9	894	158

ZC47.13A	936	56
ZC47.13B	905	60
ZC47.4	918	22
ZC47.6	1011	701
ZC477.15	135	19
ZC477.16	363	73
ZC477.2	1186	111
ZC477.3A	1275	743
ZC477.3B	1257	727
ZC477.3C	759	54
ZC477.4	243	44
ZC477.5	1118	869
ZC477.7A	758	105
ZC477.7B	631	456
ZC477.9A	3601	1880
ZC477.9B	1590	905
ZC477.9C	3568	1880
ZC477.9D	3743	2022
ZC477.9E	3710	2022
ZC477.9F	1557	823
ZC477.9G	1207	473
ZC477.9H	1240	555
ZC482.1	1765	247
ZC482.2	1581	1436
ZC482.3	1581	349
ZC482.4	1653	259
ZC482.5	1473	190
ZC482.8	1128	823
ZC487.1A	1535	117
ZC487.1B	1529	117
ZC487.2	954	470
ZC487.4	997	468
ZC487.5	639	40
ZC487.8	272	31
ZC504.14	149	26
ZC504.1A	1476	378
ZC504.1B	1404	306
ZC504.2	1758	1492
ZC504.3	2368	1780
ZC504.4A	3884	1873
ZC504.4B	3868	1858
ZC504.4C	3911	1873
ZC504.4D	3838	1828
ZC504.5	1560	987

ZC504.9	182	66
ZC506.1	3297	281
ZC506.3.1	1900	119
ZC506.3.2	1907	126
ZC506.3.3	2004	223
ZC506.4A	3000	801
ZC506.4B	2865	666
ZC506.8	316	60
ZC506.9	174	29
ZC513.10	1083	67
ZC513.11	987	101
ZC513.12	677	234
ZC513.14	598	347
ZC513.16	264	53
ZC513.1	883	403
ZC513.2	938	294
ZC513.3	1984	196
ZC513.4	3048	230
ZC513.5	1729	724
ZC513.6	1546	807
ZC513.8	1022	689
ZC513.9	1041	272
ZC518.1A	1778	1127
ZC518.1B	1864	1127
ZC518.1C	1557	1127
ZC518.1D	1736	1085
ZC518.2	3552	2368
ZC518.3A	1855	1619
ZC518.3B	3032	1690
ZC518.3C.1	2270	1567
ZC518.3C.2	2347	1644
ZC518.3D	3236	1798
ZC518.4	723	405
ZC518.6	219	41
ZC518.7	135	45
ZC53.1	1465	848
ZC53.14	374	164
ZC53.2	516	166
ZC53.4	4233	715
ZC53.6	1107	905
ZC53.7	916	635
ZC53.9	175	41
ZC581.1	1210	899
ZC581.2	1142	864

ZC581.3	2253	1085
ZC581.6	1208	790
ZC581.7	1254	45
ZC581.9	2595	2293
ZC64.13	140	50
ZC64.14	247	62
ZC64.2.1	614	235
ZC64.2.2	634	255
ZC64.3A	2523	1520
ZC64.3B	2043	1514
ZC64.3C	1308	8
ZC64.4	1068	814
ZC64.6	165	25
ZC8.1	1169	245
ZC8.3	1814	991
ZC84.1	4774	3721
ZC84.2	2286	78
ZC84.3	3112	466
ZC84.4	1213	791
ZC84.6	4712	3268
ZC84.7	766	265
ZC8.4A	7714	6924
ZC8.4B	6496	531
ZC8.4D	7434	6563
ZC8.4E	1528	531
ZC8.6	2157	531
ZC97.1A	888	510
ZC97.1B	852	486
ZK1005.1A	6962	84
ZK1005.1B	6848	84
ZK1010.10	602	353
ZK1010.1	488	205
ZK1010.2	1292	479
ZK1010.3.1	890	551
ZK1010.3.2	971	632
ZK1010.4A	905	375
ZK1010.5	2364	1749
ZK1010.6	1044	421
ZK1010.7.1	1063	133
ZK1010.7.2	1186	133
ZK1010.8.1	1683	77
ZK1010.8.2	1743	137
ZK1010.9	2209	1445
ZK1025.10	1172	469

ZK1025.2	906	520
ZK1025.3.1	1119	599
ZK1025.3.2	1129	599
ZK1025.4A	1486	917
ZK1025.4B	1361	917
ZK1025.7	1492	132
ZK1025.8	906	520
ZK1037.10	1646	566
ZK1037.11	1006	522
ZK1037.1	1113	430
ZK1037.13	1076	434
ZK1037.3	1085	844
ZK1037.4A	1161	146
ZK1037.4B	1059	35
ZK1037.5	1014	686
ZK1037.6	1581	228
ZK1037.8	960	661
ZK1037.9	1035	46
ZK105.11	1053	393
ZK105.12	966	583
ZK105.13	859	428
ZK105.1	611	459
ZK105.2	1047	464
ZK1053.1	1079	209
ZK1053.2	1730	178
ZK105.3	2409	1968
ZK1053.3	2497	523
ZK1053.4	2234	2023
ZK1053.5	990	576
ZK1053.6	1500	173
ZK105.4	741	506
ZK1055.1	4664	1446
ZK1055.2	1203	579
ZK1055.4	1158	74
ZK1055.5	1147	314
ZK1055.6A	1875	269
ZK1055.6B	1760	154
ZK1055.7	1754	115
ZK105.6	1458	463
ZK105.8	1004	316
ZK1058.1	2547	2032
ZK1058.2	2853	793
ZK1058.3	1122	532
ZK1058.4.1	1641	164

ZK1058.4.2	1675	198
ZK1058.5	885	181
ZK1058.9A	1332	37
ZK1058.9B	1332	801
ZK1067.1A	4320	3821
ZK1067.1B	4126	3628
ZK1067.1C	4256	3758
ZK1067.2A	6721	3151
ZK1067.2B	7392	3822
ZK1067.3	1295	439
ZK1067.4	1719	1431
ZK1067.5	1071	117
ZK1067.6	2375	1329
ZK1067.7	1432	130
ZK1073.1.1	1426	336
ZK1073.1.2	1476	386
ZK1073.2	1231	137
ZK1086.1A	2621	803
ZK1086.1B	2637	819
ZK1086.2	619	369
ZK1086.3	996	670
ZK1086.5	194	62
ZK1098.10A	3961	2494
ZK1098.10B	3972	2505
ZK1098.10C	2229	762
ZK1098.10D	4056	2589
ZK1098.10E	4071	2604
ZK1098.10F	3146	1679
ZK1098.10G	2920	1453
ZK1098.10H	1694	146
ZK1098.10I	1775	146
ZK1098.10J	1764	1375
ZK1098.10K	1003	19
ZK1098.10L	1712	146
ZK1098.10M	1886	146
ZK1098.10N	1730	146
ZK1098.10O	2938	1471
ZK1098.10P	2313	846
ZK1098.11	389	6
ZK1098.12	493	191
ZK1098.1A	2286	44
ZK1098.1B	1352	961
ZK1098.2	2055	700
ZK1098.3	2355	1331

ZK1098.4	1095	781
ZK1098.5	618	327
ZK1098.6	902	624
ZK1098.7	493	102
ZK1098.8	2973	2509
ZK112.1	1957	838
ZK112.2	4406	2470
ZK112.3	483	338
ZK112.5	493	40
ZK1127.10.1	1340	31
ZK112.7	10154	3489
ZK1127.10.2	1394	85
ZK1127.1.1	1222	248
ZK1127.11	2620	97
ZK1127.1.2	1135	248
ZK1127.12.1	773	60
ZK1127.12.2	825	112
ZK1127.13	755	425
ZK1127.2	1842	157
ZK1127.3	760	58
ZK1127.4.1	1166	313
ZK1127.4.2	1162	309
ZK1127.7	2954	2560
ZK1127.9A	2747	626
ZK1127.9B	2718	597
ZK1127.9C.1	2260	69
ZK1127.9C.2	2572	428
ZK1127.9D	1136	938
ZK1127.9E.1	1993	69
ZK1127.9E.2	2305	428
ZK1128.1.1	1326	1021
ZK1128.1.2	1380	1075
ZK1128.2A	1502	151
ZK1128.2B	1457	284
ZK1128.3	1083	966
ZK1128.4	972	299
ZK1128.5	1549	1237
ZK1128.6A	1988	23
ZK1128.6B.1	1885	235
ZK1128.6B.2	1978	21
ZK1128.7	618	486
ZK1128.8A	725	106
ZK1128.8B	712	93
ZK1131.2	274	63

ZK1151.1A	10905	476
ZK1151.1B	15221	476
ZK1151.1C	15254	476
ZK1151.1D	10752	738
ZK1151.1E	10558	476
ZK1151.1F	10555	476
ZK1151.1G	13619	476
ZK1151.1H	10861	476
ZK1151.1I	4727	1214
ZK1193.1	1017	113
ZK1193.2	3791	2433
ZK1193.3	1431	1165
ZK1193.4	1074	79
ZK1193.5A	2039	1107
ZK1193.5C	1520	588
ZK1193.9	133	22
ZK121.1A	524	236
ZK121.1B	428	235
ZK121.2	1704	464
ZK1225.1	1143	682
ZK1225.2	1437	1267
ZK1225.4	1592	322
ZK1225.5	1576	1242
ZK1236.1	2308	1563
ZK1236.2	1232	710
ZK1236.3A	3229	672
ZK1236.3B	2659	102
ZK1236.5	516	70
ZK1236.6	990	147
ZK1236.7A	1235	201
ZK1236.7B	1235	201
ZK1236.9	643	217
ZK1240.11.1	515	153
ZK1240.1	1187	335
ZK1240.11.2	541	153
ZK1240.2	1089	895
ZK1240.3	1297	852
ZK1240.5	1214	287
ZK1240.8	880	243
ZK1240.9	1020	260
ZK1248.10	3014	229
ZK1248.1	1598	865
ZK1248.11	751	200
ZK1248.13	2217	1

ZK1248.14	2540	1
ZK1248.15	1537	1146
ZK1248.16.1	1018	557
ZK1248.16.2	1049	588
ZK1248.17	288	150
ZK1248.19	620	102
ZK1248.20	574	108
ZK1248.2	1089	89
ZK1248.3A	2886	476
ZK1248.3B	2767	476
ZK1248.5	1031	797
ZK1248.7	2739	2550
ZK1251.11A	315	184
ZK1251.11B	414	283
ZK1251.1	481	39
ZK1251.2A	370	179
ZK1251.2B	505	314
ZK1251.3	762	365
ZK1251.7	429	247
ZK1251.8	1739	1054
ZK1251.9	5379	3351
ZK1290.10	1453	851
ZK1290.11	579	180
ZK1290.12	1590	140
ZK1290.13	972	430
ZK1290.14	588	135
ZK1290.1	714	355
ZK1290.21	145	3
ZK1290.2A	1822	1152
ZK1290.2B	1862	1192
ZK1290.3A	1091	145
ZK1290.3B	899	533
ZK1290.4A	2933	894
ZK1290.4B	2831	792
ZK1290.4C	3025	986
ZK1290.5	1130	312
ZK1290.6	1590	646
ZK1290.8	1041	698
ZK1290.9	1158	239
ZK1307.1A	996	376
ZK1307.1B	839	268
ZK1307.2	481	77
ZK1307.3	468	186
ZK1307.4	483	200

ZK1307.5	1071	685
ZK1307.6	2979	820
ZK1307.7A	1311	1034
ZK1307.7B	1344	1157
ZK1307.8.1	1740	741
ZK1307.8.2	1764	765
ZK1307.8.3	1787	788
ZK1307.9	1189	237
ZK131.10	385	251
ZK131.11A	1320	410
ZK131.11B	1623	713
ZK131.1	312	39
ZK131.4	312	39
ZK131.6	384	251
ZK131.8	312	39
ZK1320.10	645	279
ZK1320.11A	794	357
ZK1320.11B	905	468
ZK1320.12A	1618	253
ZK1320.12B	1628	253
ZK1320.13	288	125
ZK1320.1	740	436
ZK1320.2	704	395
ZK1320.3.1	673	533
ZK1320.3.2	696	556
ZK1320.4	1742	1403
ZK1320.5	1245	514
ZK1320.6	1705	719
ZK1320.7	1144	533
ZK1320.9	1565	136
ZK1321.1	533	275
ZK1321.2A	1744	1254
ZK1321.2B	1873	209
ZK1321.2C	1909	209
ZK1321.2D.1	1912	212
ZK1321.2D.2	1958	258
ZK1321.2E	1861	1371
ZK1321.2F	1922	258
ZK1321.2G	378	189
ZK1321.3	990	530
ZK1321.4A	1491	1044
ZK1321.4B	1847	1400
ZK154.1	723	261
ZK154.3	1557	1224

ZK154.4	889	131
ZK154.5	3527	442
ZK154.6A	795	284
ZK154.6B	713	96
ZK154.7	2342	1379
ZK177.10	978	394
ZK177.1	1374	498
ZK177.11	422	193
ZK177.4.1	2051	804
ZK177.4.2	2125	878
ZK177.5.1	1691	443
ZK177.5.2	1769	521
ZK177.6	1817	689
ZK177.8A	1989	245
ZK177.8B.1	1880	136
ZK177.8B.2	1995	251
ZK177.9	484	157
ZK180.1	2628	433
ZK180.17	132	44
ZK180.18	137	24
ZK180.3A	1679	369
ZK180.3B.1	1679	369
ZK180.3B.2	1531	221
ZK180.3C	711	312
ZK180.4	1076	440
ZK180.5A	1934	1454
ZK180.5B	1799	30
ZK180.5C	1505	30
ZK180.6A	2350	1233
ZK180.6B	1838	721
ZK180.7	659	294
ZK180.8A	258	124
ZK185.1A	1085	825
ZK185.1B	603	337
ZK185.1C	1591	487
ZK185.1D	591	331
ZK185.2	1605	1246
ZK185.3	996	186
ZK185.4A	846	125
ZK185.4B	486	53
ZK185.5	1131	229
ZK185.8	149	49
ZK185.9	215	47
ZK20.10	132	54

ZK20.1	1479	1143
ZK20.2	1140	607
ZK20.3.1	1321	12
ZK20.3.2	1498	189
ZK20.4A.1	788	440
ZK20.4A.2	836	488
ZK20.4B	198	39
ZK20.5.1	857	99
ZK20.5.2	928	170
ZK20.6	2531	1232
ZK20.8	139	56
ZK218.11	774	63
ZK218.1	738	78
ZK218.3	744	52
ZK218.4	807	166
ZK218.5	750	34
ZK218.7	780	59
ZK218.8	558	400
ZK228.1	2265	1217
ZK228.3	1008	131
ZK228.4A	896	273
ZK228.4B	930	307
ZK228.4C	813	190
ZK228.5	993	777
ZK228.6	978	275
ZK228.7	990	756
ZK250.13.1	1932	600
ZK250.13.2	2329	997
ZK256.1A	3242	2757
ZK256.1B	2448	533
ZK256.1C	3217	2732
ZK262.10	1008	308
ZK262.1	1020	265
ZK262.2	1159	571
ZK262.3	1062	130
ZK262.4	231	19
ZK262.6	1011	656
ZK262.7	1080	286
ZK262.8	834	389
ZK262.9	696	66
ZK265.1A	2227	1353
ZK265.1B	2366	1353
ZK265.2	1220	32
ZK265.3	1122	520

ZK265.4	964	367
ZK265.5	1211	584
ZK265.6	686	205
ZK265.7	1407	770
ZK265.8A	2153	1283
ZK265.8B	824	359
ZK265.9	1122	6
ZK270.1	3290	1150
ZK270.2A	14210	1088
ZK270.2B	2522	1321
ZK270.2D	14564	1088
ZK270.2E	14355	1233
ZK270.5	130	32
ZK285.1	987	428
ZK287.12	142	45
ZK287.1A.1	1901	1169
ZK287.1A.2	1905	1169
ZK287.1B	1718	1169
ZK287.2A	2189	1279
ZK287.2B	2290	1380
ZK287.2C	1994	1381
ZK287.3	621	145
ZK287.4A	3858	3281
ZK287.4B	3258	1712
ZK287.4C	3171	2594
ZK287.5.1	606	261
ZK287.5.2	699	354
ZK287.6	968	391
ZK287.7.1	1293	688
ZK287.7.2	1409	804
ZK287.8A	528	360
ZK287.8B	196	28
ZK328.11	219	75
ZK328.1A	3809	310
ZK328.1B	3818	310
ZK328.2	3057	588
ZK328.4	1908	859
ZK328.5A	3139	190
ZK328.5B	5319	194
ZK328.5C	3145	190
ZK328.6	1342	485
ZK328.7A	4064	1244
ZK328.7B	3339	1244
ZK328.8.1	1164	493

ZK328.8.2	1192	521
ZK337.1A.1	4843	37
ZK337.1A.2	4756	301
ZK337.1B.1	4688	37
ZK337.1B.2	4601	301
ZK337.1C.1	4867	37
ZK337.1C.2	4780	301
ZK337.2	1762	175
ZK337.4	723	425
ZK337.5	955	549
ZK353.10	289	139
ZK353.1A	1703	164
ZK353.1B	1709	170
ZK353.2	417	92
ZK353.3	734	597
ZK353.4	920	639
ZK353.5	345	94
ZK353.6	1597	393
ZK353.7	1231	240
ZK353.8.1	1520	1295
ZK353.8.2	1568	1343
ZK353.9	795	489
ZK354.2A	1215	237
ZK354.2B	1323	237
ZK354.6	1107	966
ZK354.7	697	72
ZK354.8	1564	240
ZK354.9	891	34
ZK355.1	1542	539
ZK355.2A	1584	250
ZK355.2B	1614	280
ZK355.3	574	364
ZK355.4	1458	829
ZK355.5	1533	1387
ZK355.6	1398	1181
ZK355.7	513	284
ZK355.8	285	71
ZK370.10	147	24
ZK370.11	212	35
ZK370.2	1468	342
ZK370.3A.1	3110	1464
ZK370.3A.2	3109	1463
ZK370.3B.1	3144	1464
ZK370.3B.2	3143	1463

ZK370.4A	4299	161
ZK370.4B	4332	161
ZK370.5	1572	906
ZK370.6A	1064	271
ZK370.6B	597	271
ZK370.7	1311	33
ZK370.8	1915	415
ZK377.1	1963	708
ZK377.14	277	71
ZK377.2A	4456	3454
ZK377.2B	4468	3454
ZK377.4	196	73
ZK377.6	136	65
ZK377.7	148	73
ZK380.2	1488	415
ZK381.1A.1	1113	541
ZK381.1A.2	1106	534
ZK381.1B	922	580
ZK381.2	1701	179
ZK381.34	177	60
ZK381.38	216	38
ZK381.39	428	74
ZK381.41	349	28
ZK381.43	146	24
ZK381.45	206	33
ZK381.47	217	62
ZK381.4A.1	2383	949
ZK381.4A.2	2390	949
ZK381.4B	2498	1057
ZK381.50	351	240
ZK381.57	148	55
ZK381.59	146	68
ZK381.5A	1825	124
ZK381.5B	1662	1039
ZK381.61	146	26
ZK381.8	1575	227
ZK384.1	640	154
ZK384.2	709	499
ZK384.3	1179	765
ZK384.6	672	42
ZK39.10	568	179
ZK39.2	734	63
ZK39.3	694	100
ZK39.4	669	95

ZK39.5	603	21
ZK39.6	632	38
ZK39.7	738	70
ZK39.8	715	141
ZK39.9	354	91
ZK40.1.1	1434	69
ZK40.1.2	1464	99
ZK402.1	789	102
ZK402.2	330	183
ZK402.3	396	216
ZK402.5	1551	336
ZK40.3	202	48
ZK40.6	147	46
ZK418.11	906	606
ZK418.13	1168	375
ZK418.1	999	652
ZK418.2A	1501	373
ZK418.2B	1520	1070
ZK418.3	438	215
ZK418.4	956	72
ZK418.5	871	521
ZK418.6	1223	29
ZK418.7	1342	580
ZK418.8	1093	352
ZK418.9A	1921	22
ZK418.9B.1	1839	994
ZK418.9B.2	1775	930
ZK430.1	5113	3650
ZK430.2	1115	571
ZK430.3	657	94
ZK430.5	3932	790
ZK430.7	2078	889
ZK430.8	2578	49
ZK455.1	3072	1234
ZK455.2	3676	2997
ZK455.3	1335	692
ZK455.4	1935	770
ZK455.5	1328	802
ZK455.6	1395	1143
ZK455.7.1	3896	315
ZK455.7.2	3916	335
ZK455.8A	2387	2061
ZK455.8B	1295	704
ZK470.14	1183	987

ZK470.1	543	82
ZK470.2A	1054	488
ZK470.2B.1	920	354
ZK470.2B.2	988	422
ZK470.2B.3	1151	199
ZK470.2C	1250	298
ZK470.5A	1629	640
ZK470.5B.1	1431	433
ZK470.5B.2	1499	501
ZK470.5B.3	1367	369
ZK470.6	753	260
ZK470.8	134	43
ZK484.1A	938	328
ZK484.1B.1	948	327
ZK484.1B.4	947	326
ZK484.1B.5	327	207
ZK484.2A.1	2582	1275
ZK484.2A.2	2577	1275
ZK484.2A.3	2595	1288
ZK484.2B.1	2029	1275
ZK484.2B.2	2042	1288
ZK484.3	1331	622
ZK484.4A	2760	325
ZK484.4B	2998	325
ZK484.5	396	55
ZK484.6	677	90
ZK484.7	1184	450
ZK484.8	342	71
ZK488.1	935	506
ZK488.2	1289	149
ZK488.4	1179	171
ZK488.5	1581	438
ZK488.7	533	187
ZK488.9	1074	239
ZK507.3	1144	756
ZK507.4	839	436
ZK507.6	2096	506
ZK512.10	304	73
ZK512.11	417	106
ZK512.1	863	521
ZK512.2A	1841	64
ZK512.2B	1725	375
ZK512.3	4355	3034
ZK512.4	336	70

ZK512.5A	4007	3300
ZK512.5B.1	4086	3379
ZK512.5B.2	4005	3298
ZK512.6A	2184	1235
ZK512.6B	2089	1172
ZK512.7	521	105
ZK512.8	622	86
ZK512.9	501	183
ZK520.2	1034	812
ZK520.3A	4188	332
ZK520.3B.1	1818	470
ZK520.3B.2	2142	794
ZK520.4A	3033	324
ZK520.4B	2827	118
ZK520.4C	2856	147
ZK520.4D	2745	118
ZK520.5	677	308
ZK524.1	1516	1313
ZK524.2A	5801	629
ZK524.2B	4766	3800
ZK524.2C	4787	566
ZK524.2D	6827	629
ZK524.2E	5810	629
ZK524.2F	5819	629
ZK524.3A	2728	2343
ZK524.3B	2728	2343
ZK524.3C	1807	1422
ZK524.4	3565	2500
ZK525.1	445	38
ZK525.2	908	667
ZK54.1A	1646	1042
ZK54.1B	1675	1071
ZK54.2A.1	4323	82
ZK54.2A.2	4321	82
ZK54.2A.3	4357	82
ZK54.2B.1	4206	1412
ZK54.2B.2	4204	1412
ZK54.2B.3	4239	1412
ZK54.3	831	701
ZK546.11	701	54
ZK546.13	1071	524
ZK546.14A	1559	142
ZK546.14B.1	1550	133
ZK546.14B.2	1604	187

ZK546.15	1013	388
ZK546.17	1119	15
ZK546.19	261	47
ZK546.1A.1	2548	143
ZK546.1A.2	2894	2150
ZK546.1B	2907	2208
ZK546.1C	2859	2127
ZK546.1D.1	2889	2141
ZK546.1D.2	2539	143
ZK546.20	176	44
ZK546.2A	1582	704
ZK546.2B.1	945	67
ZK546.2B.2	1070	192
ZK546.2C	1630	752
ZK546.4	500	58
ZK546.5	1989	116
ZK546.7	1191	248
ZK550.1	921	524
ZK550.2	1686	1015
ZK550.3	2532	1490
ZK550.4.1	1624	423
ZK550.4.2	1664	463
ZK550.5	1084	883
ZK550.6	1033	517
ZK563.1	1788	594
ZK563.2	1872	234
ZK563.4A	806	34
ZK563.4B	861	34
ZK563.5	1159	612
ZK563.6.1	1376	593
ZK563.6.2	1461	678
ZK563.7	1172	549
ZK563.8	149	75
ZK593.11	259	88
ZK593.14	144	23
ZK593.1A	1659	1254
ZK593.1B	1679	1274
ZK593.1C	1679	1274
ZK593.2A	552	20
ZK593.3	571	93
ZK593.4	5041	4287
ZK593.5A	4686	332
ZK593.5B	4761	332
ZK593.5C	3917	3046

ZK593.5D	4677	332
ZK593.5E	4602	332
ZK593.6A	1044	114
ZK593.6B.1	966	36
ZK593.6B.2	966	36
ZK593.7.1	430	210
ZK593.7.2	570	147
ZK593.8	1680	206
ZK596.1	806	180
ZK596.2	1000	513
ZK596.3	969	732
ZK6.10	1400	319
ZK6.11A	1401	835
ZK6.11B	1236	835
ZK616.10A	789	591
ZK616.10B	657	459
ZK616.10C	528	330
ZK616.1.1	882	626
ZK616.1.2	877	621
ZK616.2	369	164
ZK616.3A	473	258
ZK616.3B	156	9
ZK616.4.1	1570	23
ZK616.4.2	1641	94
ZK616.5	987	104
ZK616.61	1103	292
ZK616.62	219	21
ZK616.63	145	62
ZK616.65A	1632	333
ZK616.65B	1699	400
ZK616.6A	756	308
ZK616.6B	543	95
ZK616.8	597	247
ZK616.9A	961	567
ZK616.9B	973	579
ZK617.11	202	72
ZK617.14	225	70
ZK617.18	414	159
ZK617.19	150	27
ZK617.1A.1	21046	2378
ZK617.1A.2	21096	2378
ZK617.1B.1	22003	3335
ZK617.1B.2	22053	3335
ZK617.1C.1	20520	1852

ZK617.1C.2	20570	1852
ZK617.1D.1	21505	2837
ZK617.1D.2	21555	2837
ZK617.1E.1	19707	1039
ZK617.1E.2	19757	1039
ZK617.1F.1	21310	2642
ZK617.1F.2	21360	2642
ZK617.1G.1	21073	2797
ZK617.1G.2	21123	2797
ZK617.20	149	1
ZK617.2	1035	309
ZK617.23	283	10
ZK6.2	1044	732
ZK622.1	1339	222
ZK622.2	1334	1080
ZK622.3A.1	1728	13
ZK622.3A.2	1734	19
ZK622.3B	1759	175
ZK622.3C.10	1621	472
ZK622.3C.1	1687	103
ZK622.3C.12	1571	5
ZK622.3C.13	1855	271
ZK622.3C.14	1716	132
ZK622.3C.2	1678	95
ZK622.3C.3	1734	19
ZK622.3C.4	1727	143
ZK622.3C.5	1723	139
ZK622.3C.6	1710	13
ZK622.3C.7	1726	142
ZK622.3C.8	1724	140
ZK622.3C.9	1584	13
ZK622.3D.1	1679	95
ZK622.3D.2	1734	19
ZK622.3D.3	1727	143
ZK622.3D.4	1726	142
ZK622.3D.5	1724	140
ZK622.3D.6	1855	271
ZK622.3D.7	1716	132
ZK622.5	694	367
ZK622.9	288	67
ZK632.10	980	229
ZK632.11	1473	680
ZK632.12	1007	590
ZK632.13A	572	260

ZK632.13B	478	166
ZK632.14	627	340
ZK632.17	218	59
ZK632.1A	2585	198
ZK632.1B	1773	1386
ZK632.2	2150	113
ZK632.3.1	1673	41
ZK632.3.2	1754	122
ZK632.4	1452	205
ZK632.5	2578	159
ZK632.6A	2122	1224
ZK632.6B	1579	681
ZK632.7	2597	107
ZK632.8	715	67
ZK632.9.1	469	157
ZK632.9.2	383	146
ZK6.3	652	410
ZK637.10.1	1917	423
ZK637.10.2	1959	465
ZK637.11	1072	93
ZK637.1	1617	274
ZK637.12.1	834	480
ZK637.12.2	1209	328
ZK637.13.1	594	175
ZK637.13.2	732	313
ZK637.14	769	225
ZK637.15	741	439
ZK637.2	632	254
ZK637.3	2124	1624
ZK637.4	308	110
ZK637.5	1189	644
ZK637.7A	2293	137
ZK637.7B	2299	137
ZK637.8A	3252	2388
ZK637.8B	3186	2322
ZK637.8C	3230	2366
ZK637.8D	3234	2370
ZK637.8E	3212	2348
ZK637.8F	3204	2340
ZK637.9A	687	508
ZK637.9B	738	559
ZK638.1	191	8
ZK643.13	150	75
ZK643.1A	1214	58

ZK643.1B	1295	108
ZK643.1C	1163	741
ZK643.1D	1202	780
ZK643.2	847	440
ZK643.3A	1673	843
ZK643.3B	1719	843
ZK643.5	1551	41
ZK643.6	785	437
ZK643.8A	2446	956
ZK643.8B	2767	1372
ZK6.5	1057	736
ZK652.10	1203	360
ZK652.11	414	18
ZK652.1	350	31
ZK652.3.1	467	56
ZK652.3.2	513	102
ZK652.4.1	494	225
ZK652.4.2	460	225
ZK652.4.3	510	241
ZK652.5	1042	43
ZK652.6A	1928	1581
ZK652.6B	995	648
ZK652.8	929	334
ZK652.9	976	415
ZK662.2	782	237
ZK662.3A	2683	1656
ZK662.3B	2794	1767
ZK662.4.1	4580	45
ZK662.4.2	4581	45
ZK662.5	1954	1248
ZK662.6	594	176
ZK662.8	585	423
ZK666.12	492	220
ZK666.1	414	249
ZK666.14	649	28
ZK666.15.1	423	238
ZK666.15.2	555	341
ZK666.2	195	55
ZK666.3	1257	340
ZK666.5	1191	424
ZK666.6	1300	694
ZK666.7	1266	6
ZK666.8	1277	920
ZK669.1A	3211	1053

ZK669.1B	2026	216
ZK669.1C	3019	861
ZK669.1D	1925	115
ZK669.1E	2866	708
ZK669.2	919	441
ZK669.3	722	130
ZK669.4	1654	1050
ZK6.6A	1042	421
ZK6.6B	1539	918
ZK673.10	501	343
ZK673.11A	1066	551
ZK673.11B	1017	251
ZK673.11C	1135	620
ZK673.1A	618	214
ZK673.1B	387	92
ZK673.2	1034	498
ZK673.3	1142	260
ZK673.4	1500	1285
ZK673.5	441	64
ZK673.6	939	549
ZK673.7	805	340
ZK673.9	1245	1116
ZK675.1.1	5039	308
ZK675.1.2	4791	308
ZK675.2	3159	1342
ZK675.3A	1348	948
ZK675.3B	1353	1080
ZK675.4	697	335
ZK678.1	2291	775
ZK678.12	426	67
ZK678.4	972	705
ZK678.5	1889	1163
ZK678.6	951	567
ZK678.8	1191	373
ZK6.7A	1621	141
ZK6.7B	1245	141
ZK6.8	1651	1222
ZK682.11	350	52
ZK682.12	133	13
ZK682.2.1	1918	1123
ZK682.2.2	1860	1065
ZK682.4	712	101
ZK682.5	2087	1569
ZK682.7	753	37

ZK682.8	337	158
ZK686.1.1	433	19
ZK686.1.2	432	19
ZK686.2	1919	67
ZK686.3.1	1269	171
ZK686.3.2	1267	169
ZK686.4	837	516
ZK686.5	782	101
ZK686.6	921	394
ZK688.10	884	548
ZK688.12	574	85
ZK688.1	579	244
ZK688.2	2139	1167
ZK688.3.1	765	178
ZK688.3.2	824	237
ZK688.5A	5251	4667
ZK688.5B	5295	3590
ZK688.5C	577	479
ZK688.5D	5301	3590
ZK688.6A.1	1583	332
ZK688.6A.2	1849	598
ZK688.6B	1766	515
ZK688.7	547	192
ZK688.8	2292	113
ZK688.9	983	546
ZK6.9	1050	493
ZK697.10	1023	448
ZK697.1	1080	637
ZK697.11	1032	482
ZK697.12	1101	827
ZK697.13	1080	488
ZK697.14	750	170
ZK697.2	1386	905
ZK697.3	924	680
ZK697.4	999	690
ZK697.5	1107	646
ZK697.7	1014	161
ZK697.8	411	157
ZK721.1A	2531	1082
ZK721.1B	1643	1082
ZK721.1C	1735	1082
ZK721.2	935	472
ZK721.3	1378	212
ZK721.4.1	897	270

ZK721.4.2	908	281
ZK742.1A.1	4089	163
ZK742.1A.2	4073	148
ZK742.1A.3	4194	163
ZK742.1B.1	1211	51
ZK742.1B.2	1253	64
ZK742.1B.3	1316	51
ZK742.2	1878	172
ZK742.3	1394	747
ZK742.4	1409	1003
ZK742.5.1	594	239
ZK742.5.2	591	239
ZK742.6	1158	56
ZK742.7.1	250	84
ZK742.7.2	313	168
ZK742.8	146	60
ZK75.1	576	199
ZK75.2	545	211
ZK75.3	588	264
ZK757.10	565	338
ZK757.1A	1035	657
ZK757.1B	982	604
ZK757.2	1128	720
ZK757.3A.1	3270	1272
ZK757.3A.2	3240	1242
ZK757.3B	3228	1230
ZK757.4A	1770	752
ZK757.4B	1878	860
ZK757.4C	1455	752
ZK757.4D	1707	689
ZK757.4E.1	1280	262
ZK757.4E.2	1155	137
ZK757.4F.1	1280	262
ZK757.4F.2	1155	137
ZK757.4G	1280	262
ZK757.8	225	58
ZK770.1	2472	1576
ZK770.3.1	1408	960
ZK770.3.2	1442	994
ZK783.1A	8847	5201
ZK783.1B	8778	5201
ZK783.1D	8712	5201
ZK783.1E	8571	5201
ZK783.1F	8619	5201

ZK783.1G	8478	5201
ZK783.1H	8553	5201
ZK783.1I	8811	6097
ZK783.1J	7079	6719
ZK783.1K	8853	5207
ZK783.2	1091	760
ZK783.3	636	176
ZK783.4	4463	2710
ZK783.6	1062	398
ZK783.7	319	44
ZK792.11	134	45
ZK792.1.1	1630	279
ZK792.1.2	1674	323
ZK792.2.1	1359	1061
ZK792.2.2	1358	1060
ZK792.2.3	1386	1088
ZK792.3	1302	135
ZK792.4A	1771	326
ZK792.4B	1726	54
ZK792.5	2042	1472
ZK792.6	1385	59
ZK792.7A	1247	753
ZK792.8	1689	871
ZK795.1	1298	149
ZK795.2	970	15
ZK795.3	991	347
ZK809.13	135	23
ZK809.2.1	1056	312
ZK809.2.2	1066	322
ZK809.3	787	306
ZK809.4A	1628	118
ZK809.4C	677	23
ZK809.5A	2347	1892
ZK809.5B	2373	1918
ZK809.7	847	433
ZK809.9	1705	119
ZK813.1.1	703	522
ZK813.1.2	506	33
ZK813.2	455	259
ZK813.4A	1061	61
ZK813.4B	1004	61
ZK813.5	1511	1002
ZK813.6	756	200
ZK813.7.2	482	31

ZK816.1	409	116
ZK816.3	267	70
ZK816.4	783	151
ZK816.5	1200	574
ZK816.6	131	14
ZK822.1	2792	2512
ZK822.2.1	564	140
ZK822.2.2	584	160
ZK822.3A	2365	1964
ZK822.3B	2091	1690
ZK822.3C.1	2003	1602
ZK822.3C.2	2130	1729
ZK822.4	1489	433
ZK822.5A.1	1882	453
ZK822.5A.2	1897	468
ZK822.5B.1	1507	78
ZK822.5B.2	1897	468
ZK822.6	523	356
ZK822.8	245	29
ZK822.9B	180	47
ZK829.10	2074	1630
ZK829.1	855	535
ZK829.2	2771	1420
ZK829.3	1367	908
ZK829.4.1	1941	637
ZK829.4.2	1756	637
ZK829.5	1133	107
ZK829.6	1368	963
ZK829.7	1466	157
ZK829.8	1038	758
ZK829.9	2738	245
ZK836.1	1109	853
ZK836.13	133	58
ZK836.14	144	28
ZK836.2A	3033	2213
ZK836.2B.1	3062	2242
ZK836.2B.2	3031	2211
ZK836.2B.3	2964	2144
ZK836.3	603	287
ZK836.5	141	40
ZK836.8	221	62
ZK836.9	145	7
ZK84.1	2535	290
ZK84.2	702	169

ZK84.3	527	168
ZK84.6	469	174
ZK849.1	1118	143
ZK84.9	189	48
ZK849.2A	1459	1029
ZK849.2B	1453	1023
ZK849.2C	1394	964
ZK849.4	1809	1119
ZK849.5	1319	814
ZK856.10	826	183
ZK856.11	973	591
ZK856.12.1	2658	2224
ZK856.12.2	2658	2224
ZK856.1	2590	1861
ZK856.13	3327	2946
ZK856.14A	837	79
ZK856.14B	650	116
ZK856.16	343	47
ZK856.18	915	577
ZK856.4A	402	271
ZK856.4B	588	134
ZK856.5	1530	1191
ZK856.6	537	10
ZK856.7.1	456	103
ZK856.7.2	698	345
ZK856.8	974	91
ZK856.9	1510	1167
ZK858.10	170	71
ZK858.1	2538	418
ZK858.2	808	94
ZK858.3	826	135
ZK858.4A	1700	351
ZK858.4B	1712	351
ZK858.5	1313	464
ZK858.6A.1	2376	627
ZK858.6A.2	2286	627
ZK858.6B.1	2268	519
ZK858.6B.2	2178	519
ZK858.7	1471	714
ZK858.8	755	255
ZK863.10	225	125
ZK863.1	1113	187
ZK863.12	281	147
ZK863.2	993	736

ZK863.3	1725	1316
ZK863.4.1	2255	124
ZK863.4.2	2246	115
ZK863.5	1044	118
ZK863.7A	1122	746
ZK863.7B.1	829	376
ZK863.7B.2	716	414
ZK863.7C	1215	1043
ZK863.8	738	303
ZK863.9	684	474
ZK867.11	144	52
ZK867.12	140	27
ZK867.15	180	43
ZK867.17	142	25
ZK867.18	322	118
ZK867.1A	2444	1236
ZK867.1B	1714	546
ZK867.1C	2690	1479
ZK867.1D	2696	1530
ZK867.2	1092	628
ZK867.22	145	64
ZK867.3	507	96
ZK867.4	195	37
ZK867.8	272	140
ZK867.9	272	8
ZK892.1C	1629	625
ZK892.1D	1614	625
ZK892.1E	631	141
ZK892.2	469	71
ZK892.3	1700	925
ZK892.4	1098	674
ZK892.5	812	256
ZK892.6	714	216
ZK892.7	740	302
ZK896.1	1455	1217
ZK896.4	1458	38
ZK896.5.1	1490	1029
ZK896.5.2	1512	1051
ZK896.6	1007	206
ZK896.7	1189	669
ZK896.8	3666	186
ZK896.9A	1181	573
ZK896.9B	693	85
ZK897.1A	4154	2834

ZK897.1B	4142	2822
ZK897.1C	4161	2822
ZK897.1D	2774	1454
ZK897.1E	2793	1454
ZK897.1G	333	120
ZK897.1H	4125	2786
ZK897.1I	4182	2843
ZK899.1	673	399
ZK899.2	1420	362
ZK899.3	570	385
ZK899.4	1543	541
ZK899.7	573	143
ZK899.8A	4171	3458
ZK899.8B	4079	3366
ZK899.8C	4819	802
ZK899.8D	3960	3247
ZK899.8E	3710	2997
ZK899.8F	3491	2778
ZK899.8G	2916	2203
ZK899.8H	3931	3218
ZK899.8I	3040	2327
ZK899.8J	2919	2206
ZK899.8K	4165	3452
ZK899.8L	3393	2680
ZK909.2A	1406	1028
ZK909.2B	1326	1017
ZK909.2C	1795	927
ZK909.2D	1203	894
ZK909.2E	1316	98
ZK909.2F	1361	983
ZK909.2G	1270	892
ZK909.2H	1374	996
ZK909.2I	1190	881
ZK909.2J	1294	985
ZK909.2K	1281	972
ZK909.2L	1396	1018
ZK909.2M	1283	905
ZK909.3.1	779	70
ZK909.3.2	774	70
ZK909.4	996	259
ZK909.6	459	175
ZK930.12	169	73
ZK930.14	368	1
ZK930.1A	4250	3926

ZK930.1B	1932	1608
ZK930.2	840	627
ZK930.3A	869	613
ZK930.3B	600	319
ZK930.4	674	222
ZK930.5	621	428
ZK930.6	632	400
ZK930.7	706	236
ZK938.2	1126	153
ZK938.3	1983	1046
ZK938.4	1137	611
ZK938.5	1497	728
ZK938.6	1491	235
ZK938.7	1808	405
ZK945.10	149	51
ZK945.11	150	68
ZK945.1	1520	75
ZK945.2.1	983	134
ZK945.2.2	996	147
ZK945.3	2508	1150
ZK945.4	1646	630
ZK945.6A	684	105
ZK945.6B	647	105
ZK945.7	832	302
ZK945.8	462	82
ZK945.9	9855	471
ZK970.12	479	33
ZK970.1A	3088	2102
ZK970.1B	3033	2047
ZK970.2A	733	444
ZK970.2B	543	181
ZK970.2C	210	42
ZK970.2D	733	444
ZK970.3	579	328
ZK970.4.1	518	65
ZK970.4.2	563	67
ZK970.5	3411	783
ZK970.6	3369	47
ZK970.8	520	265
ZK971.1	531	378
ZK973.10.1	616	279
ZK973.10.2	719	381
ZK973.11	1648	1300
ZK973.1	2366	863

ZK973.2.1	2810	1554
ZK973.2.2	2817	1561
ZK973.3	1604	1207
ZK973.4	503	124
ZK973.5	1666	755
ZK973.6	25871	1025
ZK973.8	1270	1022
ZK973.9	888	603
ZK993.1A	828	528
ZK993.1B	725	425
ZK993.2A	1471	1033
ZK993.2B	1278	840
ZK993.5	1391	156
ZK994.1	1665	278
ZK994.3	3864	3647
ZK994.6	495	106

Forward Primer Sequence	Forward End Position	Forward Melt Temperature
GGTCAGCCACAGAGATGTCAGA	629	58.9
CGACTGGAATGGATATTGAGAAG	659	56.53
TTACGACGAGCATCGAGCTG	331	58.77
TTACGACGAGCATCGAGCTG	339	58.77
CGCTATGGACTTGTCACCTCTG	762	58.47
CGCTATGGACTTGTCACCTCTG	297	58.47
CCGCAAGACGATCTTCACAA	161	58.45
TTGTTGGTGATTCGGCTGTT	387	57.66
TTGACGAGATGTCTCAATGTACTTC	238	56.28
GTTGCTCTAACTCTCCATTCCAGT	897	56.84
GATCTGGTTCCTGATCTGCCT	58	56.86
ATGGATGGAATCGGAGAATACC	467	57.77
CAACGAGTCGATGACAACCTG	374	57.81
CAACGAGTCGATGACAACCTG	419	57.81
CAACGAGTCGATGACAACCTG	419	57.81
ATTCCACCAACCAATTCTTATGC	287	57.95
ATTCAATCAGCGGATATGCC	979	56.22
GTTGTTCAATCTGCTGATATGCCA	948	59.97
ATAATGGCGGTTCTTGTGTCTC	529	56.87
ATAATGGCGGTTCTTGTGTCTC	529	56.87
CGTCACTGGTTGTGTGCTTGT	740	57.22
CGTCACTGGTTGTGTGCTTGT	943	57.22
CGTCACTGGTTGTGTGCTTGT	845	57.22
CGTCACTGGTTGTGTGCTTGT	887	57.22
CGTCACTGGTTGTGTGCTTGT	623	57.22
GGTTGAGCGAGAAGGATTGG	147	58.32
CGCCAATAAGGACGCCATAG	168	59.17
CGAGACGGAGAAGTGTTGATC	348	56.03
TATTCAGAGATATAACAAGCGATTCTG	643	57
TTCATTCGGAATATTCACACTGAA	779	57.32
TTGGCAGCTTCTGTAGCATTG	621	57.8
AACAAGCGGCGACTAGAATG	948	56.76
GTGGAGCGATGACTGTAGCA	515	56.01
CTGTGCCTCAGAAGCCTGCT	219	59.33
AGGATTGCCTTCTATACACGGA	317	56.55
CAGGACATCAACAGCAGCATC	110	57.91
TCATTCGGTGTGTTCTCCT	776	56.59
GACGGATGCTCTACCAACA	631	58.24
GCTGCTGACCTGTTGTGCTT	644	57.7
TCCTGCTGTGATTCAAGTTGAGA	494	57.13
CAATAACTGCCAGTACGAATACACC	821	57.81
GCTGAACGGTGAACAGAGAGA	635	56.71
CAGTGGAAGTTGGCGATAAGC	352	58.46

AACGAGAATGTTATAGATCGACTCTCT	198	56.31
GGCACCAATTCCAAGATGTG	66	57.45
CGTGTCACCATCGCTGAAGT	510	58.32
CGTGTCACCATCGCTGAAGT	337	58.32
CGTGTCACCATCGCTGAAGT	510	58.32
GAGCGATATGAAGAAGAATATAACGG	2187	57.67
CCAAGAGAGCCAGTCCAGGT	153	57.92
CCAAGAGAGCCAGTCCAGGT	153	57.92
GTGGCTGGAGGAACATCTTG	58	56.75
GAAGGCCGGATGGTATAATGGC	864	59.26
TCGTGAGAATCCAGATGCCA	1415	58.75
TCGTGAGAATCCAGATGCCA	1558	58.75
AGACCGATGGCGAGTTCAGT	666	58.35
AGACCGATGGCGAGTTCAGT	666	58.35
CATTCCAGGAGCCATATATTGTG	103	57.17
ACGACGATGCTGCTGGATTC	994	59.81
ACGACGATGCTGCTGGATTC	994	59.81
CACAGCAACAACAGCAACCA	105	57.9
CAATACGCTGTTGGATCGGAT	1364	58.53
CGAGAATTCAACGATAAGACCTTC	95	57.22
CGAATATACAGGATAGTACCGTAATGG	739	57.38
GTGTTGTTGTCATTCCAGGACTCT	144	58.17
CTTGCCTGACGATTCGGAAC	754	59.26
AAGTTGTTGCATCTGCCAGTT	266	56.1
ATTCTTGCCACGCTAACACG	332	57.52
AACCTACCATCATCAGACCTCCT	963	56.78
AACCTACCATCATCAGACCTCCT	1226	56.78
AACCTACCATCATCAGACCTCCT	956	56.78
AACCTACCATCATCAGACCTCCT	956	56.78
AACCTACCATCATCAGACCTCCT	963	56.78
AACCTACCATCATCAGACCTCCT	963	56.78
AACCTACCATCATCAGACCTCCT	886	56.78
AATCATACTTATCAGTTCATCACAGTGC	237	57.9
AATCATACTTATCAGTTCATCACAGTGC	559	57.9
CAGAAGAACAGCCGGTGGTT	36	58.78
TAGCACTATCAATGAAGTCCATGAAGA	131	59.23
AGAACTGGTACAAGTGGCTGGA	214	57.47
CAATCAATTCCGGTAGCTGGAG	1027	56.11
AATGGAACGAGTAGCAGCGA	1753	57.2
AATGGAACGAGTAGCAGCGA	1765	57.2
GAAGATCATGGAGAAGAAGAGATGGA	2099	60.02
GAAGATCATGGAGAAGAAGAGATGGA	323	60.02
GAAGATCATGGAGAAGAAGAGATGGA	56	60.02
GCCGAGAATATCTGTGGAGTAGTC	112	57.16

AATCATCAGTTCCAGTCATTGTTG	214	56.78
AATCATCAGTTCCAGTCATTGTTG	214	56.78
AACTTGTTCTCACTTATGTTAGACGCT	2525	57.16
AACTTGTTCTCACTTATGTTAGACGCT	1947	57.16
AACTTGTTCTCACTTATGTTAGACGCT	2525	57.16
AACTTGTTCTCACTTATGTTAGACGCT	2513	57.16
TGATGGTCACTTCATTGGTTGT	1290	56.49
TGATGGTCACTTCATTGGTTGT	1297	56.49
CTGGAAGTGGAGAATCTACAAGTGG	344	59.2
CATTATCATGGCGTGTGTGG	203	56.87
CTGATAATCGGATGTGAAGAGGAGA	54	59.59
CCAATACAAGCGACTGCGAGA	31	59.98
CAACTCACTCTGCGTCTCTTCC	180	57.8
GGTCATCCAGCCGGACAGTT	341	60.86
ATGGATGGATGGATTGATGG	20	56.48
CGTGCGAGAAGATGAGAACA	178	56.15
CACTGCTCTCTCATCACGGA	146	56
CACTGCTCTCTCATCACGGA	42	56
CTGTGGAAGATAAGCAACCAGTGA	174	59.3
TTGTGTATGGTCTGGCAATGAC	361	57.08
GGAGACAGTGCGTGAGAGGAA	77	59.03
AAGTCTCATTGGTGCCGCTGA	775	61.65
GAGTTGGACGATGACGAGGA	866	57.23
GAGTTGGACGATGACGAGGA	866	57.23
GAGTTGGACGATGACGAGGA	918	57.23
CAAGAATGTGGTCGTTAACTCTTAGC	38	58.54
CCGACAACAAGAAGACGTGGTG	656	61.43
CCGACAACAAGAAGACGTGGTG	684	61.43
CAACAAGTGGAAGATGATTATATTCAGA	120	57.89
TTCCGATTCAAGTTCACCAGCA	597	61.45
ACAATTCCTATCAGTGATACCACGA	1029	57.68
TTCATTGCTGTCTGCTGTCTG	82	59.75
GAGCAGGCGAGTAGCCAACG	62	61.91
ACCTATGCCAACTCCTATGCCTT	377	59.05
ACCTATGCCAACTCCTATGCCTT	377	59.05
AGGAATGTGAATCGGTCGGA	75	58.93
ACGGATGTGCTGTCGGAGAT	329	59.12
AATTCGCTCGGTCATACCAA	70	56.78
TTCCAACGCCTTCAATCTTC	379	56.48
TAGCGTGAAGCCAACAACATC	2144	57.51
AACGACGAAGGATGGATGGT	99	57.91
GGACGATGTACGACGACGAC	464	57.61
GATTGCCATCGGACTTCTTG	74	56.8
CGTGGTGGAGGTGGTGGTAT	113	59.14

CGTGGTGGAGGTGGTGGTAT	253	59.14
CGTGGTGGAGGTGGTGGTAT	253	59.14
CGTGGTGGAGGTGGTGGTAT	113	59.14
CGTGGTGGAGGTGGTGGTAT	253	59.14
CGTGGTGGAGGTGGTGGTAT	218	59.14
GTCGTCGTCATCAGCAACAG	280	56.38
CAGACTTGGTGAGCTTCATCG	124	57.15
TGTAGAACCATTACATCCACTTCCAA	1014	59.65
CAGAAGATGAAGCTCCAGAGAAG	750	56.25
TTCTGGAGTGTATGCGCTCAA	343	58.12
TTCTGGAGTGTATGCGCTCAA	449	58.12
ATTCTCCGATGTGGTTATTGACG	478	58.87
ATTCTCCGATGTGGTTATTGACG	478	58.87
AACGGATGCAGTTCTGGTGA	363	57.74
TCAGTGCCTTATGGAGGTTATTCAC	402	59.41
TCGCAGTTGGTTGTGGAGTT	245	57.79
AACCTCAACACAGACCGAATG	232	56.23
AACCTCAACACAGACCGAATG	232	56.23
GCAGAATGGAACAAGAAGAGCAAT	1701	59.74
GAACCTGCCTTGCAAGATG	107	57.07
TCTGGCGACTCACTCATCTCC	94	58.98
ACGAGTACATGGCGACACAGA	82	57.84
GAAGAAGAGTAAGAAGGATCGCAAG	1353	58.01
GAAGAAGAGTAAGAAGGATCGCAAG	1398	58.01
CAACATATTAATCGCCAGGCA	81	57.3
GGTCTCTTCTCGCATCTCCTG	32	57.68
ACGCTGTTGTTCTTGGTGTCG	37	59.78
GTAACGTCCTGTCTGCGTCTACG	1400	59.83
GTAACGTCCTGTCTGCGTCTACG	1192	59.83
TTCTACAACAAGCACTCCTGGA	198	56.25
TTCTACAACAAGCACTCCTGGA	261	56.25
GCTGTTGGAATTCTGTCAATGGC	197	61.63
GCTGTTGGAATTCTGTCAATGGC	221	61.63
TTGTTGGAGAGGATCTGAGTAGACA	537	58.08
GCTGAAGAAGGCGTTGAACA	228	57.69
AGGATTCAAGATGAGCACTGACGAG	203	61.86
AACCAGTGATCGTTGTTTCATCCA	133	60.22
CAAGGAGTTCTGCCGTATCAAG	450	57.63
GTCGGCACACTGAAGCACAA	62	59.46
AAGTGTGACCTGTGATGAAGCC	741	57.77
AACACCAACACCGACACCAT	40	57.19
ATGCTCGTCATCGTCTCGTG	815	58.42
TTCTACAATGACTACTCAAGCCA	901	57.68
AATACAGTGCTCAATTCACATTCAGA	258	57.97

GCAACTGTAGCAATGTTGGCT	384	56.68
AGAAGATGCGAGTTTCGAGTTATTGG	451	60.85
AGAAGATGCGAGTTTCGAGTTATTGG	571	60.85
GGAGAATAAGCCACCTGTAATCAAC	34	58.21
TCAATGGCGATGGAGAAGGA	1076	60.11
GCCTTACATCTTGCCGATTCAC	415	59.57
AAGTGATGCCACTCAGGAAGA	1058	56.03
CCGCTGGTTGTAATATCCTTCT	115	56.15
CCAAGATGGTATTCAACTATGGAA	395	56
CAACTCGAACGCTTCCAACG	63	60.37
GCAGCAAGAACCAGAAGAAGC	238	57.95
GACTATTCGTTGAGTGTGAGAGCA	667	57.32
TTATATTATATTGCGTTGGCGAAC	398	56.31
TTATATTATATTGCGTTGGCGAAC	393	56.31
TTATATTATATTGCGTTGGCGAAC	186	56.31
TTCGTTGGTCATGAAGTACGC	89	57.36
TTGCTGGCTGATAAGTGGAAG	1152	56.74
ACCAGCGAGATAAGCGTGAT	35	56.14
TGGAGAGGCAGACGAAGGAAC	108	60.33
ATGAACTAACAGAAGTCACTGGAGGA	1032	58.44
ATGAACTAACAGAAGTCACTGGAGGA	1112	58.44
CCTTACGGACAGAACCAAGACTC	1069	57.95
CTTACTGACAGAACCAAGACACCA	1133	57.09
GCAGGAACATCATGGAGGATA	463	56.15
GCAGGAACATCATGGAGGATA	463	56.15
CTGATGAAGTTGACTGGAGGCA	1044	58.92
GCTCTTCTTCATTGTCCTTCTCC	43	57.28
TTCCACTTCTTCACTTCTATCCTTG	358	58.14
TTCTTGTTCTTGTCTGCTCTCTCG	77	60.7
AACTTCTTCAATTCTTGTCTCGTC	156	56.17
CAGATGGCATTACCTTGGT	551	57.04
GTTGGAACACTGGAGTTATGATTCTAC	622	56.11
CCTGCGACAGAAGATTCCATT	533	57.87
CCTGCGACAGAAGATTCCATT	513	57.87
CCTGCGACAGAAGATTCCATT	504	57.87
CCTGCGACAGAAGATTCCATT	562	57.87
GCGACAGAAGATTCCATTCAAGTC	539	60.07
GCGACAGAAGATTCCATTCAAGTC	519	60.07
GCGACAGAAGATTCCATTCAAGTC	510	60.07
GCGACAGAAGATTCCATTCAAGTC	568	60.07
TTGAGAGCAGTATGCGTTGATG	1150	57.67
ACGCAGACTGTTGATGTATGGTC	668	57.74
TGCCTTATCTCCATTGAAGAGTTACAC	417	59.89
ATTACCATTCTCTGCTCTTATTCG	469	56.78

ATTACCATTTCATCTGCTCTTATTTCG	460	56.78
TATGATATGGATGGAGAACAGGCA	575	59.31
AACATGAATAAGGAATGGTGGACTT	838	57.97
AACGACCTGAATACTGTAGGAATAGTTG	387	58.33
CGTCATCATCTCACCAGTATCTCC	329	58.6
TTGGAACTCAACGGTATGATATGC	82	58.91
CTGGCGGAGCTACTTACGGA	183	59.07
AGCGATGACATCACTTCTTGCC	1239	60.22
AATTGTCATTATAGTTCTTGAGTAGGA	737	56.16
CCTGGCTCATCGTAATCGTCT	644	57.9
CCGACGGAGATCCTCCAGAA	309	61.06
CGCAGTTCTTTCACTGTTCCA	90	59.11
GCTGCCTCCATTGCTGTTCT	69	59.03
GTGGACAGGAACATTATTACTTGGA	2110	57.26
GAGTATTGATGTAGCTGCTGTTGG	254	56.82
ATCAATCAGAAGGCAATCGC	4649	56.44
ATCAATCAGAAGGCAATCGC	22865	56.44
TATCGTCGTCATCAACAACCAAGC	1227	61.98
ATCAATCAGAAGGCAATCGC	7856	56.44
AATATGATGTCAAGATGATGCCGACT	273	60.84
AATATGATGTCAAGATGATGCCGACT	314	60.84
ATGTCTCTTAATGGCGGACGT	236	57.31
ATCCAGTCACAGTTGCCGTAG	91	56.42
ATCCAGTCACAGTTGCCGTAG	140	56.42
TCAACAGAACTGCACAGAATCC	1005	56.52
AAGATCCATCAGAGCCGTTG	465	56.39
GAGACGATGCCTTCAGATTGC	139	58.48
ATCCAGAGACGGCATTGAGC	824	58.84
AGATCCGAGCAACGTGACGA	694	60.37
AGACTTGTGGAACCGCCTGT	234	58.25
AGATCCGAGCAACGTGACGA	1613	60.37
GCAATGGACAACGACAACACC	32	59.85
CATATCTTGCCATCGACTATATTATACG	611	57.52
GATTCTGCACAGCTACTGTCATCC	856	58.92
GCATCATCCTATGTTGCTTATCTG	573	56.67
GAGATGGAAGTTGGCGGAAT	394	57.66
TTCTGCAACTGGTGCAAGCT	215	58.25
TTCTGCAACTGGTGCAAGCT	310	58.25
ATCGTTCGGCTTCTTCCATT	663	57.35
ATCGTTCGGCTTCTTCCATT	798	57.35
AATGGATGAGCACGGAGGAA	605	59.08
AAGTCGTGGATTCTGTGTGCT	2035	56.85
ATTGACCTCACGAATACAGAAGG	1172	56.08
GTGACATTCTGCGTATCGTT	1643	56.31

ATAGGTGTTCTCTATATCGGATTGACC	52	58.09
GGAAGGTGGTGGGAATGGATT	210	57.21
TTCTTGTATGCCGTGGTGGTTA	619	58.99
GGTGTGAAGAGACTGCTGTTCC	1489	57.5
TTGATTACTCTAACTGAAGCAATTCCTT	814	58.23
CAGTAACCGAATATCTGTCCGAA	472	56.98
GAATTCTTCAGCTAATCACATCAAGCT	334	59.37
AACTCATTCCAGACACTTGCCT	937	56.56
ATCTCATTGTGTCGTCATCGGA	727	59
CATCCAATGTATTATCAACGAGAACT	479	56.59
AATAATAGCCGATGGAGGTTGC	123	58.17
AACTATGAATCCAGACAGTTGTGCA	40	58.74
CACGATGAATGGATGCTGCTT	44	59.68
CCTCCGCCATCGTATGAAGA	523	59.62
CATCGTCAGGAAGGTGTTGG	652	57.58
CGGATAAGAGTTGACGAAGAGAA	778	56.48
AAGGTCGTTCAATCGGTCAA	92	56.71
GCCTTCGGAAGATGATGATG	1021	56.73
GACATTCAGGCGTTGCAGGAA	118	62
GCAACTACTACGAACCTGACGACTA	1120	57.82
GTGTTGGATATGCTTCACCTTCG	1344	59.49
CCAACAGACGGTCGTAACAAG	673	56.88
TTGTTGATGGCAGTTGGTGGGA	405	60.88
TTGTTGATGGCAGTTGGTGGGA	369	60.88
GTCACACTTCACACCACTTCCG	31	59.11
AATACAGACCTCTCGTTCAGCAA	441	56.83
GGCAACTGAAGACTCGTATGATCT	800	57.62
GAGTGCTGATGTGGATTCTGG	2131	56.77
AACTGATAAGACCAAGGAACGAGT	3322	56.32
AACTGATAAGACCAAGGAACGAGT	3322	56.32
AACAATCACTTCATTGCTGGA	587	58.31
AACAATCACTTCATTGCTGGA	587	58.31
GCAATTCGAGCCAATACCAT	446	56.29
GCGATAATTCCTCTTCTTCG	55	56.09
AATGGCTAGTGCCGAGGCAA	25	61.57
GACTTCGGTATTCCACATCTTCC	482	57.64
AGGCACAAGTGGATCAAGAAGA	368	57.53
CGGTGAAGAGAACGCAAGAAC	311	58.57
CATCCAGAGGAAGCCAGCAA	842	59.91
GATGGAGAGCTGCTACTGAACG	305	57.84
TTGCAGAGGTGGAGGTTGCT	397	59.43
TGCCGTTGGAGTATCTGTGA	341	56.28
CTTCTTGGACTGCTGTCCGA	202	57.61
TAAGCCACATCATCTCGTCCA	358	57.77

TTGGCAGTGGGAAGGAGAGAA	1606	57.04
GCCGCCAGATTATCAGACAGTG	531	60.59
TTGGCAGTGGGAAGGAGAGAA	1688	57.04
TTGGCAGTGGGAAGGAGAGAA	1282	57.04
TTGGCAGTGGGAAGGAGAGAA	1129	57.04
TTGGCAGTGGGAAGGAGAGAA	1004	57.04
AAGCAATATCGTAGAAGAGGAAGAGA	902	57.22
CACGCAACTGTGACATCCAT	628	56.52
GTTACATTGGCAGCGTTCA	1822	59.28
GTTACATTGGCAGCGTTCA	2029	59.28
AACATATACGAATCGAATGATAGTGTC	173	58.13
GTGATAAGGAAGCACTGATAAGTCAA	37	56.91
CAGGCAATGTGATAGTGGAGGA	796	58.66
CAGGCAATGTGATAGTGGAGGA	796	58.66
AATCGTCAATAGGTGGCACAG	42	56.32
CTCCTATTGAGCAGGCGAAGA	75	58.29
CTCCTATTGAGCAGGCGAAGA	112	58.29
CGCACTCACACTCCTGGCTT	38	60.02
TTCGTCCGCATTACAGTTACTATG	588	57.16
CGTTGAGTGATGGAAGAAGTGC	984	58.45
GCAACATACATTCACCGACGA	894	58.1
AACTACATTAGTTGAAGAAGCTGAAGC	289	56.97
ACAAGGATAAGGTGGAAGTCGTCT	453	58.27
CTGATGCGTGTAGTTGCGAA	414	57.12
CTGATGCGTGTAGTTGCGAA	350	57.12
TGTGCCAATCTTCAATGCCA	303	59.63
AAGCAGTGGTGAAGAGTGAGCA	533	58.74
TGAGAAGACAAGAGGAAGCAAGT	168	56.17
GGACATTCGGTTCATTCGGT	815	58.3
CCAGCCAACATCTCCTCCAT	356	58.54
ACAACAAGAGCACAACTTGCTG	166	56.83
AATGTGAATAGGAGTGAAGTGACTGTGA	133	60.28
CTCTTCGTCCAGCAGTTCAGG	512	58.67
CTCTTCGTCCAGCAGTTCAGG	512	58.67
CTCTTCGTCCAGCAGTTCAGG	512	58.67
AATAATGGCGGCGGTCAATG	174	61.48
GCAAGAACAGCGGCTATTGAG	261	58.73
AACAGCAGATCGATGGATTGG	1820	58.6
GCGGTAGAAGAATGCCAGTTG	327	58.46
CTATACGCTTGATGAGACTTATGGAC	1814	56.52
AATTCATCGACAAGGTCCAAGT	296	56.32
GGCGGAGAATGGAAGAATGTG	255	60.39
AGGAAGGATGAGCAAGTGGA	180	57.46
GGTTACCTACAAGCCATGATTCCA	327	60.06

CTGTGTCTTCTGATTGCCGAGT	417	58.07
GGA CTCGGTCCAGTTATTGCTG	1083	59.59
CGTAGCCATCTCTCCGCATA	34	57.56
CGTAGCCATCTCTCCGCATA	318	57.56
CACTGGCGTTAGGTTATGATCTTACG	419	60.96
CGTAGCCATCTCTCCGCATA	34	57.56
CGTAGCCATCTCTCCGCATA	34	57.56
CACTGGCGTTAGGTTATGATCTTACG	624	60.96
CGTAGCCATCTCTCCGCATA	312	57.56
CACTGGCGTTAGGTTATGATCTTACG	404	60.96
CACTGGCGTTAGGTTATGATCTTACG	384	60.96
CACTGGCGTTAGGTTATGATCTTACG	624	60.96
CAGATGACTGATCCGAGGAGTATC	810	57.86
ATGTGCGGTTCCAGAGATGT	256	56.62
TGATATGAGCCTGGATGTTGC	77	57.24
TGTATCTCAAGAATCCAGTGAACGG	1552	60.32
TGTATCTCAAGAATCCAGTGAACGG	1792	60.32
ATGGCAGATAAGATGGAGGTGTTG	3197	60.19
ATGGCAGATAAGATGGAGGTGTTG	3437	60.19
CACCAACTACTTCGGCACCA	868	58.22
CGATTCTCCAATGCAACCTG	317	57.76
AATAGCGAAGATGTTGAAGAAGCT	246	56.75
GCTGCTGCTATGTTGGATTATGTC	847	58.83
GAAGTTGTCAGAGAGGATACGGA	882	56.22
AAGTTGTTTCATGGAGCGTACTC	74	56.28
TGAAGACCATCGCACATCGG	667	61.57
TTCTCGATGCAACGACCTACA	671	57.97
ATGACTGAGGAGTATGCTCTTGC	908	56.39
ATGACTGAGGAGTATGCTCTTGC	948	56.39
GCCTCAACTTCGTCCACCAA	548	59.67
GCCTCAACTTCGTCCACCAA	640	59.67
ATATCGGAGGATCGGTGATGT	456	56.9
ATATCGGAGGATCGGTGATGT	441	56.9
GCAGCCAATGAAGACAGAGATG	25	58.54
CGCCTGCTCACCTACACAAC	52	57.98
CGCCTGCTCACCTACACAAC	52	57.98
CGCCTGCTCACCTACACAAC	52	57.98
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GTGCCAGCTTATCACTCAACAC	357	56.12
CCACATCCTGGAATTGTA ACTACTAG	548	56.32
ATTCATGGAATGAGGACTACAAGTTG	512	58.54
TAAGTCTACCGCTCAACGAGGAAT	443	59.32
TATAGACGAGATATTC CGCACGA	797	57.58

TCTTGATAATGATTAGATATCGAAGGAA	659	56.91
ACGACAGTTGGAGAGGTGGA	554	56.71
ACGACAGTTGGAGAGGTGGA	758	56.71
ACCGAACTGTGGAGATGGAGA	906	58.18
CCTACGAGGAAGACCACTACAAC	1140	56.79
TTGTGTCTGATTGGCTACCACA	1108	57.74
TCTATGTATGGCCGTTGAACG	329	57.27
TCTGAATGTGGCTGGAGCAGTT	211	60.75
AGCCACATCATCTCGTCCAG	312	57.26
TCCGTTCAAGCTGTTTCGTGT	84	57.95
CGAGTGAAGATGAGGATGAGGA	1286	57.93
CGAGTGAAGATGAGGATGAGGA	1280	57.93
TCCGTTCAAGCTGTTTCGTGT	110	57.95
GATGAAGCTCCGAGAGCAAGA	198	58.36
CGATCAACGATATGGCGAGT	71	57.26
AATTCAGTGCAATTCAACAGCA	68	57.05
TTCCAACGATAACAGCCGTATC	59	56.98
TTAGAGACACGCTGCCGACT	26	57.32
ATGCTGATTAGTTATGTGACTAATTGGT	703	56.78
ATGCTGATTAGTTATGTGACTAATTGGT	762	56.78
TGTTCCGAGTCGTCGGATTC	288	59.63
TGTTCCGAGTCGTCGGATTC	346	59.63
TGTTCCGAGTCGTCGGATTC	317	59.63
TGATGAGGTTGCCAGTGCCT	75	61.22
CAGTCAACAATTGGTGATAGGCA	740	58.62
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TGCCTGTCGTTGTCATCGTT	774	58.73
CGACGTATCTCGCAGATGCA	121	59.55
ATGTTTCGTCTGCTCCGTCAA	202	57.89
ATGTTTCGTCTGCTCCGTCAA	202	57.89
ATGTTTCGTCTGCTCCGTCAA	401	57.89
CCGAGTTAACGCACCAAGTG	1048	57.89
CTGTCACTCAAGCCATTACTAGATAACC	316	58.82
ACTCAAGGCTCGTCGGCAGA	2308	61.96
TGATGGTTGGATTGGATGCT	82	57.39
TGATGGTTGGATTGGATGCT	82	57.39
CGGTTGTAGTTGATGAGAATGC	763	56.03
TATGATGATTCACATTCACAGACACC	1565	58.79
TATGATGATTCACATTCACAGACACC	1466	58.79
GATGAAGTCGATGCGGAGCT	224	58.98
GATGAAGTCGATGCGGAGCT	225	58.98
GCTGGTGAACGAACGGCTAC	617	59.33
GCTGGTGAACGAACGGCTAC	627	59.33
TTACAGAATTGAAGGCAATCAGAA	374	56.81

TTACAGAATTGAAGGCAATCAGAA	350	56.81
TCAAGCCAACAACCTACTCTTCT	226	56.9
CAGAAGCAATGGAAGAGGATATGTGT	270	60.64
CAGAAGCAATGGAAGAGGATATGTGT	210	60.64
CGGCAATAATGACGATCAGAA	53	57.34
CAGAAGCAATGGAAGAGGATATGTGT	287	60.64
CAGAAGCAATGGAAGAGGATATGTGT	325	60.64
CCGCAGCAACAGATTCAGGA	1466	60.88
GACCGAGCACTACGAGCCGTAC	57	61.96
GGACCTACGCTCACTGAATGC	49	58.41
TCGTTCAAGCGGAGACAATC	2086	57.48
TCGTTCAAGCGGAGACAATC	2086	57.48
TGTCCGAGAACCGAAGTTCAAGA	937	61.9
GGAGCACTGTTGGTATGAGACG	215	58.33
TTGGTTGGTTGTTGTCGATAAGC	347	59.86
TTGGTTGGTTGTTGTCGATAAGC	347	59.86
GCTGACCGTAACAAGGAATGG	157	58.18
GCTGACCGTAACAAGGAATGG	157	58.18
GCTGACCGTAACAAGGAATGG	157	58.18
GCTGACCGTAACAAGGAATGG	157	58.18
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AATGCGAGGATGCCGTCCT	3080	61.51
AATGCGAGGATGCCGTCCT	3188	61.51
AATGCGAGGATGCCGTCCT	3098	61.51
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TCTTAGTTGAGAATGGAGCTGATGT	2370	57.33
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AATGCGAGGATGCCGTCCT	3206	61.51
AATGCGAGGATGCCGTCCT	915	61.51
AATGCGAGGATGCCGTCCT	933	61.51
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CGAGCAAGATGGAACGTGAGA	58	59.96
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TGGAACCTCTTCAAGCACTCTCA	356	59.28
TGGAGAATCAATGGAATCAACA	93	56.6
TTCTTGTTGAGAGAAGTGGATTGG	171	58.42
TTCTTGTTGAGAGAAGTGGATTGG	171	58.42

GCATTCATGTTGCATGAGACA	1527	56.72
CAGAGAGGAGAAGACAGGAACAGC	528	59.65
TTGCTGTGAAGTTCGACACTCCT	539	59.92
TTGCTGTGAAGTTCGACACTCCT	597	59.92
CTTCATCTAACGATCGACGCA	343	57.6
TTCATAATGGCACTCAATCCTT	173	56.59
ATTGTGGATAGCAAGCATTATTACAG	300	56.83
AAGGAGGAACGATTAGATTGGAGA	96	58.34
CAGCCAATTCCTGTTCATACG	422	56.86
GGTGGAGGTGGTGAACGAGT	190	58.44
ACCATTCTATGATGTAACCTATGACGA	294	58.07
GCGATGTTATTATGTTCTATGAGCAG	413	57.31
GGATTCTCGTGCCTACAACAAC	2618	57.35
GGATTCTCGTGCCTACAACAAC	2618	57.35
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AATGTATTGCGATCACCAGTCA	125	56.72
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ACAGTGTGGAACAACCTTCTGGAC	907	56.83
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CGTCGGCTTGAAGTGACAGT	46	57.54
CGTCGCACATTCACAGTTCC	474	58.73
CGTCGCACATTCACAGTTCC	481	58.73
GTGAACACTCGTCAAGCAAGG	629	57.05
CACGAAGTCTAAGCAGCAACC	1718	56.41
CACGAAGTCTAAGCAGCAACC	1706	56.41
AATGGAAGTGGTGATGGAGTG	489	56
AATGGAAGTGGTGATGGAGTG	900	56
TTGATGATCCTTCAGATACAGAGC	640	56.29
ACTGTGTTGGATGTGGAGGCT	220	58.11
GAAGAACAAGAAGTCGAAGGATAAGAAG	776	59.4
GAAGAACAAGAAGTCGAAGGATAAGAAG	724	59.4
ATTGCCGTATGCCGTATGCC	99	61.5
CATTCGAGATTCCGCTTCAG	879	57.11
GGTTGTTCTGTTGGTTGATTATGG	391	58.34
TCCACTCGGCAACCATGTCTC	630	61.95
AGTCCTTCACAAGAGAATATGCAGTGG	904	61.84
ATGATAAGAGATTGGAACCGCTATC	319	57.86
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CGTCAACACCGAGTCTCCAC	465	57.72
CGTCAACACCGAGTCTCCAC	497	57.72
ATCTTCTTCTAACAAGCCGGTCAG	71	58.98
TCTACGTTCCGCACAATCTGAA	93	59.34

GGCTCCTTGCGTTCATCTTC	162	58.47
GGCTCCTTGCGTTCATCTTC	255	58.47
TTAGAGGAGTTGAGAATGGATGC	575	56.27
CGGAAGAGCCAGTCGTTGTTG	598	61.65
AACTACAACAAGGCAGACTACAACCTACA	1257	57.84
ACAGCAAGAACGACACAGCCA	731	60.45
CGAATACAAGAATCACTTGGACAA	63	57.02
TTGTGGTTCTGGACAATTGAACT	179	57.25
TTGTGGTTCTGGACAATTGAACT	377	57.25
GGCATTCTTGTCGGCGTAGT	668	58.8
TCGGTGAAGCATAAGAAGAGAGA	117	57.03
TGGCGTAGATGAGATTAGATATGGAT	541	58.21
TGGCGTAGATGAGATTAGATATGGAT	606	58.21
GAATGGAAGGAGTGATATAGAACCTAA	34	56.44
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CGACTCTGAACTTACGGCTCTC	764	57
CGACTCTGAACTTACGGCTCTC	231	57
CGACTCTGAACTTACGGCTCTC	686	57
CGACTCTGAACTTACGGCTCTC	567	57
CGACTCTGAACTTACGGCTCTC	677	57
TATTGAGACGGATGAGGTTGTG	1588	56.3
CATCGTAGTGAACTCGGCATC	89	56.91
TAAGATGGTTGTACGAGACATCAACG	66	60.25
GCAGCTTGCGCTCTCAGTCT	69	59.63
TCGGCATCTCTGAGTCATAAGG	487	58.03
GTAGAAGAGTCACACCTGGACAAGA	721	57.64
GGAGCCGACAAGAAGAAGCC	452	59.91
GGAGTACAACCTGCATCCGTTA	1018	57.75
AAGTCACTGGTTCTTGCTCTTGAAG	451	59.14
AATTGACTGACCGACAGTGCA	52	57.81
TCAGGAGAAGTTACGAGGCACA	1302	58.59
TCAGGAGAAGTTACGAGGCACA	1290	58.59
TTGCGCGGAGAAGATGATTG	380	60.82
GCAGGAACTCAGCCAACCTG	47	57.13
ATGGTAGGAGGACTTCATACGGT	356	56.77
CGTATCAGCATTCAACTTCCAA	645	56.57
CGGCGAGTTACGGTGGTTGT	3173	61.78
CGGCGAGTTACGGTGGTTGT	3176	61.78
ACGCAAGTTCGGACCAGGAT	61	60.46
TCAAGACGGATACAGTGACGATT	751	57.36
AAGACACACGCAGATTCAGATAAGAG	58	59.04
GGCAGGCAGAACAGCAGACA	845	61.1
GAAGCCGTCAGCAACCTCAA	194	59.95
TCAGTCCTGTTGAGTCAGTTGGC	149	60.29

TATTGACACCTACACCACCGAGA	1742	58.11
TGGTGTGCAACGGTCTCTA	188	58.88
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GTGGAAGAGATGAACACTTGTGAC	1703	56.47
GTGGAAGAGATGAACACTTGTGAC	1703	56.47
TTGATCGAAGCGAGAGAATGC	555	59.14
AATGATGAGACAACCTGATGACGAG	3415	56.97
CCAACACTTCTGAATGCCGTT	96	58.69
AGCAACGACGACGGAGAGTA	154	57.16
GTACAGCCGTAAGTACAAGAAC	502	56.63
CACATTCAAGTCTGCCAACTCACC	1304	61.72
CTTCTTGCCGTTGCTCTTCT	164	56.06
AATGTGAAGAACGAAGTGAAGAAGT	457	56.49
CCATGGTGTGTAAGAATTCGTG	153	56.64
GGTTGTATTCCATAACTGCAGTCG	141	58.61
AGATGCGGAACACGGAGAAG	337	58.88
AGATGCGGAACACGGAGAAG	769	58.88
GCAGTCATAAGCGTGGAGAAG	115	56.35
GGATCACATCTAGAGAAGAGGCTCA	210	59.03
AATTGAAGATGGAAGTTCAGTCG	711	56.19
TACGTCGAATCTTACGGAATACGT	1358	57.88
ACTGAACATCGCTGGTGGTG	346	58.16
GGATTAGATGGAGCCGAACC	158	57.15
GATGCGATCAGAGCTTGTGT	296	56.62
GACTGGAGATGGACGGCTTC	426	58.27
GACTGGAGATGGACGGCTTC	426	58.27
CGGAGACAGAACACAATTCAACA	188	58.74
CTAGTGATGAGCACATTGAGAAGC	986	56.98
CGGAGACAGAACACAATTCAACA	191	58.74
GTGATTCGATTGAGACAAGCCT	572	57.03
ACTATTGGAGATGACGATTGTATGATG	907	58.45
TTGAGGAGCAGGAGACGGTT	363	58.47
TTGAGGAGCAGGAGACGGTT	363	58.47
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CCAGTTGTGGAGAATGTTAGTTCA	1142	56.99
CTTCGGCTCAGACTTCGGCTT	37	61.8
AAGATGCGGACGATTAGAGTGGA	347	60.89
GGCGTTCGTGCTTCTTCTGA	784	60.09
ATGCTTCTTGTGGTAACGCTATTCC	811	60.63
GGACACTGAGCAGGCATAAAG	730	58.41
CGAGAGGTTGAGACGACGAT	317	56.5
CTCGGACACCAGCAGAACTC	1509	57.03
GCAGATTGTACGGACAGGAGA	420	56.47
GTAATCCTGAAGCGGTAATGTTGG	1570	59.74

AGGAGGAGCCGTATGAGAATC	612	56.09
GCTCAGTTCCGAACACCTTCC	498	59.69
CCATTACTTATCGCCACTGATGC	97	59.48
AGGTCGGCTAATGAATGTTCTCTT	241	58.4
TCCATCCAACATCAACTGCCA	301	60.86
GCGTGTCCAATGATGAGCAA	409	59.24
TCCATCCAACATCAACTGCCA	263	60.86
GAAGAAGAAGCTAATTCTGGTAGATCA	293	56.85
AGTCTCCTCTGCCACCGATG	651	58.84
GCGACGAGATGACCGTATTCTG	95	61.46
AATAGGCGATAAGACGGATGG	58	56.87
CGTTGAACAATGCTAGAAGCCTAA	505	58.67
AGTCTACCACAAGCAATCACTCAA	162	56.76
GCCTTCAACTTCCATTATCACG	997	57.38
GCCTTCAACTTCCATTATCACG	1018	57.38
TCGGATAATGATGATAAGCCAAT	3359	56.38
GCGTACAATGCGTTACACTTCA	64	57.54
TCGGATAATGATGATAAGCCAAT	3494	56.38
AGTCCTCTTCATTCTCAGCGTCA	102	59.12
AGTCCTCTTCATTCTCAGCGTCA	215	59.12
GGCAGCACCTCTTCTCTCAC	288	56.2
ATTCCTCAACTCCTATTACTCAACTCTT	28	56.7
CGGTGGTGGACATTGAGATTC	1466	58.84
CGGTGGTGGACATTGAGATTC	1466	58.84
ACGACGACGACGAGGAGGAG	2080	61.33
ACGACGACGACGAGGAGGAG	2131	61.33
GCCACCACCATCTCTCTATCC	1251	57.13
GCCACCACCATCTCTCTATCC	1251	57.13
GCCACCACCATCTCTCTATCC	1302	57.13
AACACGCCTACATCTCCTCAAG	153	57.12
CGGTGGTGGACATTGAGATTC	171	58.84
AACACGCCTACATCTCCTCAAG	153	57.12
CGGTGGTGGACATTGAGATTC	179	58.84
TTCTGGCTTATATGGATGCTCAACT	1611	59.19
TTCTGGCTTATATGGATGCTCAACT	1805	59.19
ATATGGCACCAAGCTCACCGA	119	61.33
TGGACAAGAAGTAGAGAATGAAGATG	430	56.93
TAAGAGGACACGGCGACACT	378	57.01
ATTATCCACAACATCATCGTATCCG	72	59.82
TTCTCGAATGTTAGTCATAGATCCG	1151	57.59
TTCTCGAATGTTAGTCATAGATCCG	1155	57.59
ATTATCCACAACATCATCGTATCCG	36	59.82
TTGTCTATGTCTAAGTACGGCCACAGA	341	61.12
TTGTCTGGTACATTGTTCTTCTACCT	1085	56.37

CGGAGGTTGATGGATTGAGAGA	140	60.02
CGGAGGTTGATGGATTGAGAGA	125	60.02
CGGAGGTTGATGGATTGAGAGA	135	60.02
GCAAGTTGTACGGTGGATTATAGG	525	57.75
GGTTCGCTAGTGTTGCTGTTG	771	57.18
GGTTCGCTAGTGTTGCTGTTG	771	57.18
GGTTCGCTAGTGTTGCTGTTG	848	57.18
AACTGAAGAAGAGAGAAGATTGCG	1556	57.22
AACTGAAGAAGAGAGAAGATTGCG	1477	57.22
GCTCTACTTGTCGTTGGAGACC	262	56.71
TCAGTCGGAATGGATGTAGCC	312	58.6
TCAGTCGGAATGGATGTAGCC	312	58.6
TCAGTCGGAATGGATGTAGCC	223	58.6
AAGCAGAGAGCAATACCAACGA	2059	57.77
CGGCAAGACAGAAGAGGAAG	1851	56.34
AAGCAGAGAGCAATACCAACGA	2109	57.77
CAAGTGTATACTTGAATCTAATTGGACA	32	56.08
CGGAACTCTCGACTGAATTGC	62	58.53
TTCACAGAAGGAGGATGCAAG	36	56.6
CGATTACACTTAACCAGTACATTCGT	72	56.72
TTGAAGTGACATTGATAGTTGCCA	32	58.29
AACAGAAGTAACAGAGATCGTTCGTC	529	58.16
CCTTGGAGTTGTTGTTATGTGCT	1166	57
TTGACAGAGAAGAACGACCAGAC	317	57.19
TTGACAGAGAAGAACGACCAGAC	329	57.19
ATGAACCGTCACGAATGGATTG	249	60.55
CGTGGAGGACCGAATGAGTT	35	58.59
CGTGGAGGACCGAATGAGTT	35	58.59
ATACAGAAGAGATGACAGAGGAGACC	901	57.25
TTGTCGTGCCTTCTTGCTTG	132	58.64
TTGTCGTGCCTTCTTGCTTG	132	58.64
AACTACCGACCAGCAAGACG	271	56.56
CGGCCTACGTATTCGCTGAC	59	59.33
TGACATCATTATTATCATCGAGAGC	237	56.21
GCAAGTGCCAAGATTCTTCC	784	56.08
ATTGGAACAGCAGAAGAAGCA	3053	56.32
TACGGACAAGAAGGAGGAAGC	2986	57.17
GGACAGCCAAGGAGTATTCTGA	761	57.03
ATTGGAACAGCAGAAGAAGCA	3176	56.32
ACGATTGAGTGGCAGTGATGTG	631	59.62
ACGATTGAGTGGCAGTGATGTG	629	59.62
TACGGACAAGAAGGAGGAAGC	2986	57.17
TACGGACAAGAAGGAGGAAGC	2869	57.17
TACGGACAAGAAGGAGGAAGC	2869	57.17

TACGGACAAGAAGGAGGAAGC	3029	57.17
TCTCTCTGGAATTGGTACATTGATC	238	57.36
AAGTCATTCAATGAGAACTGCAATC	480	57.55
AACATTAAGTGCTGGAAGTCATTGAG	197	58.82
TATTACTGTGGTAGACATTATGCTGATC	996	56.04
CAGAAGAAGCGATTGGAGAAGA	605	57.44
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GGATTCTGTAGCCACCGAGA	1307	56.39
AGAAGAAGACGAAGATGGCTTGTG	89	61.01
AAGCCGAGTCTGATCCACTG	144	56.5
CAGCGGAATCATGGAATACG	1138	57.65
ACCAGTGCTCGTACCACAAGTG	1057	58.78
ACCAGTGCTCGTACCACAAGTG	705	58.78
AATGGAGAATCATGCCACCA	391	57.39
AAGAGGATTATTGGAAGGATTGG	1687	56.45
GACGCTACGTCTAAGTTCAACGA	426	57.41
GATCATTCCGCTCTTGAGTTC	81	58.78
GGAATGATTATGCCAGGACTTG	401	57.18
TGCCACTGATCAATCTTCTCAA	501	57.02
ACTTGAGATGGTTGGCATGG	4473	57.04
ACTTGAGATGGTTGGCATGG	4395	57.04
ATGATAGTTCACAGGATGTCTTCG	1257	56.09
TGAAGCAGAGCTTATCCTGGA	586	56.41
CAATCGCATAGGCAGGTGAA	54	58.33
TTCACAGACCGTGGAATGGA	93	58.49
ATGTAGCGATGGCTCAGACG	90	57.54
TCGAATCAAGGATCTCCTTCA	599	56
TGATCGAGAGACAGTTGGCACA	851	60.4
GTAAGAAGCTCGTCGTCCAGCA	572	56.69
ATCTTCCGATCAGCAATAAGCC	1560	58.36
ACTGTTGCTGCTTCTGACGAG	428	56.96
GGAGAATGAGAATGAGTTGGAGA	1169	56.12
GGAGAATGAGAATGAGTTGGAGA	1180	56.12
CAATGACGAATCTCCAACACC	479	56.57
GACGTTCCAGGACCAAGTACG	235	58.17
CAATGACGAATCTCCAACACC	479	56.57
CAATGACGAATCTCCAACACC	455	56.57
ATCACAGCAGCAGCAACAGC	216	58.78
GCTTCTGGAGGATCGGCAAG	398	60.8
CAGAAGGTGCTTGAGGCGAA	463	60.09
CAGAAGGTGCTTGAGGCGAA	463	60.09
CAGAAGGTGCTTGAGGCGAA	461	60.09
AGAAGGTGCTTGAGGCGAAG	80	58.28
CCAAGAACCACACCAATCACAA	80	59.32

CCAAGAACCACACCAATCACAA	25	59.32
AACTATGGACTCTTCGGACAGG	190	56.09
GCAGACTTACTTACAGCCAGCGA	1211	59.69
CCAGCGACAATGACCAACAG	149	58.73
CCAGCGACAATGACCAACAG	46	58.73
CCGTATGCCACCACACCAGTT	1105	61.54
TCCGAATCTGGCACTCTACAC	81	56.47
GCCGATCAACAGAGTGCTGA	1340	58.55
TTGTGTCGGTCACCAAGTTG	668	56.56
TTATGATATGGATGATTGGCTCGAC	65	60
GGACGAGTGTCAATACATCTACGT	880	56.04
CGAGCAGATACGAATTGTGGA	257	57.45
AACAAGCAGCAGTGTGCGATGGA	280	61.68
GGAGAGCGAGACATCACTGG	22	56.96
GACATAATGACATCCAGAAGCAAC	180	56.46
GACATAATGACATCCAGAAGCAAC	404	56.46
GGCTCGACAAGATGGCTCAC	867	59.39
CCAGGAGGAGGTCAAGCATC	233	58.27
CCAGGAGGAGGTCAAGCATC	505	58.27
CCGTTCTCAGGAGGATGGAC	201	58.11
CCGTTCTCAGGAGGATGGAC	202	58.11
CCGTTCTCAGGAGGATGGAC	174	58.11
CCGTTCTCAGGAGGATGGAC	161	58.11
GGATGGATGTACGAGTTGGC	260	56.51
TTAATCGGATGACACGTGAATTGG	511	61.66
TTAATCGGATGACACGTGAATTGG	82	61.66
GTTGGCATAACGGTTCGAGATG	245	59.04
GTTGGCATAACGGTTCGAGATG	245	59.04
AACTTGGAGATGAGCCGCTACC	385	60.55
GTTGGCATAACGGTTCGAGATG	127	59.04
ATTATTCTTGATGTATTGCTCTTCC	302	57.23
GACGAGATCGTGCTCTCCGA	949	60.07
ATCCAGTTGTGACGCCTCCT	117	58.2
CTCGTCTGAGTTCATCCTCTACCG	581	60.24
TCTCGTTGAGCCTAGTAGCATT	654	56.64
TCAACGGATATAGTGGAACATTCTGGT	558	61.76
ACAGCAACTGGCAGCCTATC	109	56.64
AACAATCAGCCATCTAATATACTCGTT	47	56.84
AACTTCAAGGACACACTTATTGCTATG	120	58.05
TTACCTTAACTATGGAAGCGAACA	423	56.09
CCTGGACTGTTGTATTGTTTCGC	791	58.24
GCGACAATCAACAGCCATCT	37	57.35
TAACGACTACTACAACAGAAGAGCATC	108	56.41
AACGCAAGGAGCAAGGCACT	874	60.89

AACGCAAGGAGCAAGGCACT	718	60.89
AACGCAAGGAGCAAGGCACT	874	60.89
ACTCGCAACAGAGTCAACCG	114	57.54
CGCAGAGCACAGAAGAGAGTT	98	56.17
TTCTCATTGCATTGTCAACATCT	69	56.01
ATACACCAGCAGCAGCAGTCG	169	60.05
ATACACCAGCAGCAGCAGTCG	51	60.05
AACGATTCCAATGTCTCCAACG	375	59.81
AACGATTCCAATGTCTCCAACG	363	59.81
TACCAAGACAATAATGCCACCA	411	58.17
TACCAAGACAATAATGCCACCA	425	58.17
GACTACACCACATCAAACTCACA	179	56.25
GACTACACCACATCAAACTCACA	152	56.25
GACTACACCACATCAAACTCACA	162	56.25
GACTACACCACATCAAACTCACA	179	56.25
AACGGCTCTCATTCCAACG	222	56.46
CTATAGAACTGCAATGAGTGAACCTAG	173	56.01
CAAGATACTCATTGTCAACTTCCGA	1502	58.37
CAAGATACTCATTGTCAACTTCCGA	1502	58.37
CGAGAACAAATCAGTAGCAGTGG	91	56.28
ATTCTAATCAATATGTGGACTTGGCTA	885	57.5
CATACAGTAATGTTCTGAAAGTGCGAT	3411	60.56
GGCAATCGGAATCTGTTACCT	670	56.8
CTGGAATGCTCAGCCAATGC	329	60.32
AATATGGTCCGATTCAGGAGAA	575	56.31
TATGATGGAGAACTTGAATGACACG	675	59.04
AAGTGCTCCAATGGATGTTCTGT	196	59.47
AAGGTGTGACAATATGTGCTTCTGTAGA	68	60.29
GCCTAAGCGTAGGATTAGGCTT	81	57.06
TCACCGACATACGAACCTAACG	30	58.63
GGATTGTGTATGAGCAGGAAGTG	83	57.36
CATGGATGTTTCATCGACGAGT	77	57.05
TACTGGAAGAACTCGGATTATGG	259	56.14
AAGGAGCAGGAGGACGATCT	461	56.6
AACGGTCTGTTCAAGAAGCG	168	56.68
AACGGTCTGTTCAAGAAGCG	170	56.68
CCATCACCATGCTGTTCTGTC	55	57.59
AACCTCCGATAGGAACTCTGAGA	241	57.18
GGAGTTGGACTCTACGATTCTGG	191	57.9
TATAATGGAGAAATTGGCTAATATTGCAT	950	58.5
TTAAGGAAGTTGAGACAATACTTCGA	260	56.65
AATGAGAGGAGAAGTATGAAGGAGGA	98	58.86
TGGAACGAGACGACAGGAGA	1442	57.95
TGGAACGAGACGACAGGAGA	1348	57.95

TGGAACGAGACGACAGGAGA	1440	57.95
TAAGACCAAGAAGGTTGCTGCCA	435	61.85
TAAGACCAAGAAGGTTGCTGCCA	435	61.85
TAAGACCAAGAAGGTTGCTGCCA	157	61.85
TAAGACCAAGAAGGTTGCTGCCA	157	61.85
TAAGACCAAGAAGGTTGCTGCCA	157	61.85
TAAGACCAAGAAGGTTGCTGCCA	157	61.85
CTACTGGAAGCACTGTCACCTCA	1416	58.13
CTACTGGAAGCACTGTCACCTCA	1407	58.13
CTACTGGAAGCACTGTCACCTCA	1435	58.13
CTACTGGAAGCACTGTCACCTCA	1415	58.13
CTACTGGAAGCACTGTCACCTCA	1331	58.13
CTACTGGAAGCACTGTCACCTCA	1412	58.13
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CTACTGGAAGCACTGTCACCTCA	588	58.13
CTACTGGAAGCACTGTCACCTCA	557	58.13
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TTGAGACTGGAGATGCTGCTAA	314	56.49
TTGAGACTGGAGATGCTGCTAA	364	56.49
GATGAGGATGAGGATGAAGGAGA	1566	58.22
CATTCGGCTTGTCTTCCTTG	56	57.02
ACTCTGAAGGACCACAAGGACCAC	785	61.58
TTCATCCAATTTCGCCTCCAT	163	59.08
AAGTCGGATCTTGTGCGGAT	1105	58.2
TGGAACAAGAAGGAAGACGAGA	581	57.65
CACGCCAACTTCAACACGGA	1086	61.61
AACTTCTACGCCTCGCTCACT	279	57.02
ATGCGGCAGATTCCTATGTC	489	56.32
TGTCAGTGCGATCTCCTTCC	1228	57.39
TGCTGTATCCGGACTGAACA	1138	56.28
TCCAGTTAGCAGAAGCCGTT	859	56.34
AACCATCCACAATATGCCTGA	48	56.49
CAACATTCTGGTGGTGTCTCC	59	56.52
TACCTACACTTCTCATCGTTGCTT	26	56.05
AGACTCGTCGTGTGATCGTCA	32	57.89
TACCTACACTTCTCATCGTTGCTT	26	56.05
AGACTCGTCGTGTGATCGTCA	32	57.89
TACCTACACTTCTCATCGTTGCTT	26	56.05
AGCACAACAAGCAGCCAACG	1613	60.97
TACCTACACTTCTCATCGTTGCTT	26	56.05
AGACTCGTCGTGTGATCGTCA	32	57.89

TTGCATAACCACAATCCAACA	167	56.08
AAGATGATAACTGGTGGCAAGC	1179	57.01
TGGTTGAACGAGAAGAGAAGGT	161	56.68
CAAGGATGTGCGAGAATGAAG	10194	57.03
ACACCACCAGAATGTTGTCAACA	91	58.87
CCGTTCTCTCATCATCATCATTG	54	58.13
TTGCGATTGCTGACACCGTA	2628	59.84
TTGCGATTGCTGACACCGTA	2898	59.84
AACCTCAACTCAACAAGCGGAT	31	58.76
CTCGTCCTCACCATAATCGC	51	56.83
CCAAGGTGGATATTCTCAATCTTAC	75	56.17
CATGTGGAATGTTGGAGCAA	739	56.54
CAGCACGCCTCTCTTCAACT	237	56.88
AGCTGGCAACATTGATATCCTCA	70	59.58
CCACGAGCATCAGCTTCTTG	56	58.2
CATGTCTTCTTGTGATAGCTGCTG	65	57.85
TTGCTGGTTCTTGATAATCGC	345	56.64
CGACACTGCATACTTCTCGTACAAG	357	60.2
GACGGAATTCGACAGACACTCA	218	58.78
AATTGGATAAGAAGGCAATGTGC	1601	58.2
AATTGGATAAGAAGGCAATGTGC	1601	58.2
AAGATGATTATATTGTAGATCACACGGT	794	56.61
ATCAAGAATGAGGCGGCGAT	216	60.51
TTGGTTCCGCTTATTCTGTTG	38	56.56
ATCATTCTTACCACCATCTTCTACATC	579	56.96
GATGCGGTGTCTTATGTTCAAG	538	58.19
GGCGAGCAACTCGTTGTGAT	660	59.84
ATTCTTGACACTCTCTTCGTA CTCTC	1941	56.78
GCAAGTTCAACATCTTCATCAACA	879	57.91
GAGATCACAGTCCGATGCGA	1465	58.34
TTGTCGGACAGATAGTTGTCGGTCT	180	61.97
TGGCTGGAACCGAAGTTGTCT	51	60.61
CGTGTATGAGCGAAGTGAGGA	290	57.58
TTGGTGCGACATAACTGGATT	1120	56.71
TTGGTGCGACATAACTGGATT	892	56.71
TTGGTGCGACATAACTGGATT	401	56.71
GGAGGAATCAGAACAGTTGACAGA	201	58.37
TCTGAAGAAGGAGCTAAGTGGTACAATG	303	61.16
TCTGTAAGGAGTATTGAATCATTGGAA	864	58.26
GAACTCCTGTCTATCCGTCCAA	382	58.58
GAACTCCTGTCTATCCGTCCAA	382	58.58
TCAACACCAACAACCATCTCC	959	56.93
TCTGAAGAAGGAGCTAAGTGGTACAATG	302	61.16
ACAAGAAGGAGCTAAGTGGTACAATG	239	58.11

TCAACACCAACAACCATCTCC	887	56.93
TTGTAGTCTACTTATTCAAGGATGCTCA	42	57.86
AATCTGGACAGTGGTTCACAGC	511	57.77
AATCTGGACAGTGGTTCACAGC	573	57.77
ATCCAATCGCAACAGAAGAATC	47	56.92
GGCGATTGAGAGACAACAAGG	244	58.38
GGCGATTGAGAGACAACAAGG	185	58.38
GCTCGCCTCGTGTGATGATG	63	61.34
GCTCGCCTCGTGTGATGATG	172	61.34
GCTCGCCTCGTGTGATGATG	63	61.34
GCTCGCCTCGTGTGATGATG	176	61.34
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AACACCTCCACAGACTGCTGA	144	56.95
ATTCCGTACAACGATCATCAACA	439	57.98
GCTCGCCTCGTGTGATGATG	63	61.34
GCTCGCCTCGTGTGATGATG	172	61.34
GCTGAATGGAGTGCTGATGTG	384	57.91
GAACCGACATCAACATAACCAAC	3185	57.02
ACTGATCGCCACTCTTCTCG	34	56.66
CCTGGAATGAAGAAGCGACA	274	57.48
GTTATCACTGAACATCTTGACAGAATC	483	56.3
ACTCGTTGCTGTCCTTCTCT	61	56.74
ATTCTGTAAGCAGTGGTCTTCTCG	302	57.8
CGCTGGATTGTTGAAGAACG	56	57.96
CGCTGGATTGTTGAAGAACG	56	57.96
CTCAAGACTATTCGGATGTGGTT	422	56.08
CTACGAGCCACTTCCATCCTT	968	57.05
AAGGCTGTGGTGGAGACTGTT	255	57.37
GTGTACGATGTGCCGCAACA	509	60.15
GAATGAATAAGGAGTCGGTGGA	632	56.78
CTACAACAATACTACAGGATCGCCAT	415	59.85
AATCGCCTACACCTTGACCA	2422	56.74
ATTGGAGATGTTGAGTTGGTGGA	512	59.32
AACTGGATTGTGATTGGACCTG	1195	57.5
AACTGGATTGTGATTGGACCTG	1227	57.5
AACTGGATTGTGATTGGACCTG	1364	57.5
AGGAAGATGCTGTGAAGGATGATG	327	60.43
TCCAGATGCAGCTTCTCAGG	295	57.71
TCCAGATGCAGCTTCTCAGG	202	57.71
GCCAAGTCGGTCACTCCATC	775	59.1
CCAAGTGAGCGTAGCCGTTA	28	57.67
GCTACAGCAATCGCTATCACC	48	56.28
GCTACAGCAATCGCTATCACC	48	56.28

ATGTCGTTGCCTTGAAGAATG	1048	56.44
GTGAATGTTCGTGGAAGCAGT	1039	56.38
AAGGATCATGATGATTGATGAGAA	851	56.31
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TCCCACTCCACAAGACGCT	810	57.88
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ACTGCTTGCCGTCGTTGTTT	45	59.88
TTCTTCAACAGGAGGCGGATT	633	61.35
TTGGATGTCGTGATTCTTCTGTA	1731	56.02
TTGGATGTCGTGATTCTTCTGTA	1774	56.02
TAACGCCAAGACTTCACGCTCT	116	60.02
TAACGCCAAGACTTCACGCTCT	159	60.02
CTAGTTCAGGAGAACGTCCAGTTG	1428	58.14
GTGATAGAACCAGCCGACGA	50	57.35
CGACGAGTACGAGGACTACGA	395	56.73
GGAGATACAAGGACTATTAAGATTGCTG	1754	58.1
ATTGTTGTGTTTCAGGCGGATG	979	59.43
TGAGATTGATCGTCGGACAGT	392	56.77
TGAGATTGATCGTCGGACAGT	392	56.77
CAGAATGGATGTGGCAAGCG	26	61.13
AACTTGCCAATTGCCTGTATACC	570	58.14
CAACTCATCCGAAGAATCTGC	211	56.09
CACGATGAGACTGCCACTGA	1505	56.87
CACGATGAGACTGCCACTGA	1471	56.87
ATGACCATCACCACTGACTCG	952	57.01
TATGTCACCGATGCCTCCACA	632	60.88
AACTCGCCTTCTACAATTCACAATG	1760	59.56
ATGCCAGGTGACGACAATGC	173	60.5
GTATGTCCTCCAGGTCCTCCA	324	57.5
ACGGTTACAAGGCAGAGGCA	1923	59.33
AACTACGGAGAGACCTCGAACAC	394	57.59
GCAGGACCATCTGGAATTGACA	603	60.82
CGTCTGGCGTTCACTATGGA	706	58.32
CGTCTGGCGTTCACTATGGA	460	58.32
CGTCTGGCGTTCACTATGGA	297	58.32
CGTCTGGCGTTCACTATGGA	75	58.32
CGTCTGGCGTTCACTATGGA	68	58.32
CGTCTGGCGTTCACTATGGA	460	58.32
AAGATGAGGAAGCCGCCGAT	950	61.87
AAGATGAGGAAGCCGCCGAT	964	61.87

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CAGAGAATGCCTGAAGGAGAATC	108	58.1
TCCAGTCAACAACCAGAGAATGC	104	60.11
TGTCCAGCAACCACCTCCTA	1811	57.74
CTGATAGTTGCTCTCCAGATGTCA	126	57.26
TTACTTCCACTTCTTATTCGACCAT	286	56.35
CGAAGAGGAATACAGTGGAAGAGT	1061	56.84
TTATCACTGTCTTATTGAATGCGAGGT	117	60.21
GTACCGTCTTCACTACTTCAACGC	44	58.09
GATTCAGGTCACCTTCGCCAA	458	57.32
GCCTACAGCACCAATGTTCAAC	792	58.24
GGTGTGCAATGAACAAGTGC	519	56.17
CGACTTCATTCCAGTTCTCTGTG	718	57.6
TTCAGCATATCCTATTGATGATTCTATG	138	57.88
TTCAGCATATCCTATTGATGATTCTATG	152	57.88
CGAGCGACTCAGTTGTCTCA	192	56.25
GCAACGAATACGACGGATGT	330	57.17
AAGAACTTGGCAACCACTGTCA	326	58.35
CCGTCGTTAGTGAAGTCTGAAGT	197	56.38
CCGTCGTTAGTGAAGTCTGAAGT	170	56.38
GCACGGTGGTCTCAACGGTT	238	61.85
GGACATTGCCATCACGAAGA	403	58.09
GCAGTCTGCGTGTCTCCTGA	66	58.71
CCTTCTCTGTTCAAGCCTCTGAT	52	56.38
CCATAAGCCTGACCAACAGC	2223	56.89
AAGTTGAACGGATTAGAAGGATCC	356	57.81
AATTCTATGAGAACAACCTTGCAATTGG	291	58.7
GCCGTTCTCAACCAACCACA	168	60.5
CGCCATCTCTGAGACGTTCTGT	91	61.29
GTGTTATGCGACGACGACGA	218	59.31
CACAACGACGATGGATGCCT	935	60.49
GTGTTATGCGACGACGACGA	218	59.31
ACCTTCACAGTTGCCTCCAC	360	56.24
TTCGGCATTACATACTCACG	221	58.24
TATGCTCAACTGTGCCGTCTG	137	58.54
CCATTGACTCCGACGACCTT	78	58.59
ATGTGTTGCTGGATGGTGTAGAG	1321	57.74
TCTACTTGGTCTATGCTGGCAGTTAC	872	58.96
TGATTGGTAGATTGACAACTCCTG	1493	56.93
TACGAAGAGATGAAGATGAGGAGAA	466	57.39
AAGTCGTCGGTGCTGGAGAA	155	59.43
AAGTCGTCGGTGCTGGAGAA	160	59.43
GGACGACAGTGGTGCATCAAG	1330	60.13
GGACGACAGTGGTGCATCAAG	1176	60.13

CAACCAATTCTACTGCGACTGC	882	58.52
CAACCAATTCTACTGCGACTGC	450	58.52
AAGCAAGACAATGTGTGGAATG	156	56.37
AAGCAAGACAATGTGTGGAATG	261	56.37
AGTATGGTCTTCAGGTATCAATCAGA	297	56.26
CCGCCTTCTCTTCTCTTCT	48	56.44
TGGCGGATGACACAACACAA	43	60.54
CAACGTCGTCGTGCTGACTG	68	60.07
GTAATCACTCATGTGTATAGCAGCGA	29	58.47
TCTGCCAACCATATGAGCTACC	123	57.83
GGCAGGAGAATATGATGGAGGATA	622	59.29
GGCAGGAGAATATGATGGAGGATA	613	59.29
AACCGCCATCAATTATTCCAA	151	57.92
AACCGCCATCAATTATTCCAA	142	57.92
GGCAGGAGAATATGATGGAGGATA	622	59.29
GGCAGGAGAATATGATGGAGGATA	707	59.29
GGCAGGAGAATATGATGGAGGATA	622	59.29
GACGAAGCGGAGCTGACAAC	78	59.58
ATTGGAGCAGTTGATTGTGGAT	310	57.15
AATGTGTTACTGAGAATTATCCATCTGA	746	57.46
AATGTGTTACTGAGAATTATCCATCTGA	723	57.46
AACGAAGAAGCATGTCAAGTCT	35	56.71
CATGACAGTGCTTGCTGGAG	52	56.56
AATTGACCAACACCTCTGGAAT	66	56.17
ATACTCAACCGACGATTCACTTC	1629	56.07
ATACTCAACCGACGATTCACTTC	1632	56.07
GCTCAGACCACTAACCTTCCAT	193	56.08
TCTATGCGATTCTTGATGTTATTGTTC	187	58.7
AAGCGAGAATAGAGAATACTGTCACA	1385	56.71
CGATTCAAGCTCTGATTCATGC	749	58.54
GCCGTATCTCATGATGAGAACTACT	240	56.78
TTATTGGCTCTCGTTGGCAA	301	57.97
TGTGCTATCAGAGCAACCGGAA	244	61.59
TTCTTCGGTTATGCAAGCGA	932	58.12
CTTCGTTATCTTCACCTCCATGGTC	68	60.97
ATCCGGAGGAGGTGGTGGAT	108	61.42
TTGATCCGCTGCCAACAAATG	903	61.5
AATTGAACTCACTGAATGTCAAGTG	485	56.2
CAATAGACAATGGAGACACGCAGT	587	59.19
GGTTCTGCCGTTGATGGATA	451	57.08
GCTCTTGTTCCACTGTACTACTCACTG	134	58.68
GCTCTTGTTCCACTGTACTACTCACTG	99	58.68
GCTCTTGTTCCACTGTACTACTCACTG	86	58.68
ATCAGGCGTTGGTTGGACAG	1431	59.55

TGAATCCAACGAGAACTGCCT	266	58.38
CCGCAAGGAACATCAGAAGG	820	59.26
ATGTGGAGCAAGCTGGTGGT	1616	59.17
CAATCAGCTTGCACTATTGCC	351	57.15
CTTATTCTCTCTGATTCTCTCCGT	159	56.79
TTGAGAAGAAGTTGCACACCAA	138	57.14
TGAGGAGCCACGACACTACC	2059	57.32
GCTGAATGCGATGACACCTT	1480	57.35
ATCACCATCTTCAGTGCTCCA	1253	56.77
GCTGAATGCGATGACACCTT	1480	57.35
GTCACATCGCCAACTACATCTCT	535	56.98
AACGCCACCACTTGTCATCC	118	59.41
GGATGCCAGTGATGAACCGT	199	59.37
AAGCGTGGAAGTCTTCGGAGT	410	58.98
CAGATGCGATGAGCAGAGGA	488	58.65
AAGGAGAAGATTACTGACACTATTGGAT	220	57.25
AGTGCCGAGTTCTTCCGTGT	372	58.4
TGAATATCTCATCTTATATCCATAGGCT	94	56.13
ATACAGAATCGGAATGGAACGC	113	58.95
GGCATTAGTGAGAGTCTACACGAAG	885	57.41
AGAGAAGTTAAGCGTAGAGAAGATCG	829	57.08
AACCAGATGTGCCGTTCTTGC	140	60.99
CCGCAAGAAGTTACACCATACG	1015	58.32
CCGCAAGAAGTTACACCATACG	1015	58.32
ACTCATCCTGTCATTCAAGCCA	189	58.25
ACTCATCCTGTCATTCAAGCCA	254	58.25
ACTCATCCTGTCATTCAAGCCA	189	58.25
ACTCATCCTGTCATTCAAGCCA	189	58.25
ACTCATCCTGTCATTCAAGCCA	254	58.25
GAATGTCATATACAAGTATGATGATCCA	185	56.4
CGTGGCAAGTGATACTAGAATGAC	215	56.69
CGAGAATAAGAAGGTAGAGCGGAA	746	59.08
GAATTGAACCACGTGATGCTC	607	56.72
AGAGATTGCTGTCTTCGACTGTG	66	57.36
CCACTGCTGAGGACCTGCTG	77	60.56
TTAATTCCTGCTGATCTCTACACACA	140	58.1
AATAACCAATATGATGACATCGGTGA	141	59.38
TTAACAAGATCTGCTTATCCGCTA	1350	56.3
GCCGCCAAGAAGTCAAGTTAG	797	57.76
ATGAGACCAGCGTGACAGATG	1259	57.34
ATGAGACCAGCGTGACAGATG	1259	57.34
TGCCTACATGCACATTATAGGAA	523	56.12
TGCCTACATGCACATTATAGGAA	304	56.12
TGAAGATAACGATACTGATGATGAGC	1207	57.6

AACGACACCGATAATAACTGCCT	671	57.81
ATCGCTGATACGCGTCGGTA	89	60.21
AATCATCTCATCCTCAACTCAGTCAAC	98	59.89
GTGTGTGTGTGTGCGTCTGTG	88	58.2
GCTTCTGCTCTTACATCCTTATCATC	612	57.81
ATTGGCTGCCGCAGACAGAT	1068	61.64
TGCTGATCAACCTTATAACGCAAG	533	59.31
AGCCATCTCGCAAGTCCATT	287	58.35
CTTACCACGCTCGCTGTTG	66	61.51
GAATGGTTAGCCGACTGGAA	408	56.36
TTCTATGTCGGATTGCTGATGG	98	58.65
TGGCAATTGCCGATGGAGTA	156	60.93
TTCCTACGCACTTACAATCATAACACT	410	58.38
TTGTTCAAGCGACCATCTC	698	57.32
GATGGAAGTATCAGGACGATTGG	54	58.45
GAGTCCGCAACAATCAATCG	261	57.76
GGTTATCTTAGCAGCCATCGC	44	57.61
ATCATAACACAACACGGAATACGG	465	58.72
GGAGAATGATTAATTATGTGGACCA	197	57.11
GGATGATGATTACTATACGGAGCA	572	56.09
CGTCGCCATTAGAGCAATAACTTAC	176	59.27
GATTCCATCGAGGATATGCCT	501	56.67
AACTAATGGCGATACTTCTCTATTCCTT	114	58.46
GAGATTGAAGAGAAGCCGCACA	238	60.46
GAGATTGAAGAGAAGCCGCACA	238	60.46
GTGAAGCCAACTGTGCGAGA	1472	58.6
GTGAAGCCAACTGTGCGAGA	1101	58.6
AACTCCACTCTATTCCATCATGC	48	56.01
TTCCTCCAACCTGCCTGCTGA	531	60.48
AAGGAGGTGGTTGATGAGAATG	4579	56.74
CCTACCAACCTTGTAAGTGCCT	60	56.16
GCTGATTAATTAGGATAATTGCTGAGA	32	57.42
TCTCTTCAGAACGCTCAATCATC	951	57.31
TCTCTTCAGAACGCTCAATCATC	950	57.31
GTCTTGATACGGCATATGAGCTAGT	804	56.18
TGATGCCAGGATTGACACATTC	782	59.39
GCGAACAATGAATTCTCAACTTG	582	57.55
GTGCTTCTCCAGGTGCTCCA	519	59.96
GTGATGTTCTGCGTCTACTTCCA	255	58
TCAATTACCGTAATCCGTTCTGAAC	52	59.31
TGCCGCACTCCATGATCTCT	49	60.34
GAAGTGTGGATCCAAGTACACCTG	145	58.56
AATGTCTATTGGCATGAGTACACAA	698	56.53
AATGTCTATTGGCATGAGTACACAA	698	56.53

ATCGTTCAATGACAGATGAGGTT	1356	56.33
GGCAGGATGATGACGAGGAG	570	59.2
CCGATGAGTTGGCAGAATCC	295	59.08
ATTCCTGATACTGAAGAGATTCAGAGAA	343	58.19
CCACGAGTTATACATATAGGAGACTGTG	1242	57.56
CTGAAGGTTGTGTTGGAGTGTTAG	2326	56.68
TGTTATCGGAGCCATCATTGAG	91	58.65
GCAGACATTGGCTAATGACGAATC	52	60.76
CATTGCTCTACCATATCATTCTCTACC	970	57.55
CCTGGTCACACTGCTCAAGATG	337	59.35
ACTCGGCGTTGGTGCTGACT	1001	61.75
AACTGACACCGAAGAAGTGAATC	306	56.13
AACTGACACCGAAGAAGTGAATC	304	56.13
CGGAATGAACAGACGCCTTC	56	59.26
GCATCGTCGATGAGCATTGTCT	72	61.11
ACTGTTCTCGCTACTGGTGGAT	724	56.59
CCTTGCTCTTCATGGCTTGA	250	57.63
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AACTATGAGCAGCCGAAGCA	61	57.35
AACTCATTGCCATCAAGTCTGA	511	56.02
TTCCAGACATACAGTTAAGATGCAAC	694	57.57
GCAACCAGATGGATCAATGC	916	57.54
GTGGATTCTGCTGTAATACAGATGACTA	360	58.02
GCCGATATAGCTCACGCTCCAC	317	61.86
ACTATCTATGGTCAACTGGTGGCA	183	58.58
TTACTTAATGGTTACCTTGTGTGCTT	391	56.47
TTGGTTGGTTACTGTTGTTGAGAA	192	57.4
AGAAGCATCTGCTGAAGCGA	384	57.54
ATGTCGGATTCTGCTCAGAT	257	58.07
CGATGCTCTCCACTCTACCAC	177	56.06
GTCACGTATCTCGCTCATGGA	296	57.37
GTCACGTATCTCGCTCATGGA	1198	57.37
TATGCTGCGCTTATGTGCCT	145	58.17
ATTGGAGTTGGAAGAGACATTG	408	58.25
CACGAATCACACTATGCTGTCTCC	1069	59.66
CGAAGACGCCAGTAGAGAGAA	118	56.08
CGAAGACGCCAGTAGAGAGAA	36	56.08
GCGGTTGGAGAATCGTCGTT	200	60.95
CGAAGACGCCAGTAGAGAGAA	118	56.08
CGAAGACGCCAGTAGAGAGAA	36	56.08
GCGGTTGGAGAATCGTCGTT	200	60.95
GATGCGTGCCAGCTTGTCT	72	59.98
GAGGATTGTGAACGCTATCGCAT	456	61.24
GAGGATTGTGAACGCTATCGCAT	456	61.24

CTCATCTCATTGGTCGTGCTCA	67	59.84
TGTATGACGCACCATGATGC	104	57.51
TTGAACCTGCCTGATTATTGG	594	56.35
GCGATACATCCTCCACAGTTGA	914	58.66
CCATATAAGCATCCACCTCGTGT	181	58.89
AACACAAGTGCATATCCTAACTTCAGA	705	58.44
GACCGTCATAATGTACTTCCGATA	289	56.02
CAGTTGACTCGGCTTACGGA	108	57.57
CCGCCACCACCACAAGAAGT	1231	61.83
ATCTGGACGAGTATTGTAACGGA	1359	56.48
ATGAAGGAGAACGCAGATAAAGG	260	56.29
AATTGGTTAGGAATGGTGGTCA	99	56.96
AGACACAGTGGCGGTCTGCTT	98	60.83
TGTTGGATTGGATATGCTTGTG	855	57.11
TAGACCACTCGGCCATCTCA	90	57.83
TGTTGGATTGGATATGCTTGTG	709	57.11
TCTTGTCCAGCATGTCGCTCA	26	61.48
CCGAGAGACGAGACAACCGA	65	59.95
GTGCATATGGATGTGAATATGAGTACA	236	57.99
AACTGGCATCAACGCATTACG	673	59.6
AACTGGCATCAACGCATTACG	250	59.6
CAGCAGCAGCAGCACAAACAG	1618	60.51
GGACGAAGAAGAGAGCGGAGT	161	58.69
GGACGAAGAAGAGAGCGGAGT	773	58.69
GGAGACCGCCACTTATTCAGA	1421	57.87
GGAGACCGCCACTTATTCAGA	1431	57.87
GGAGACCGCCACTTATTCAGA	1421	57.87
GGAGACCGCCACTTATTCAGA	1431	57.87
GGAGACCGCCACTTATTCAGA	1418	57.87
GGAGACCGCCACTTATTCAGA	1428	57.87
GGAGACCGCCACTTATTCAGA	1421	57.87
GGAGACCGCCACTTATTCAGA	1431	57.87
TTAGAGTAGATGGAGAGGTGGTTGT	706	56.33
TTAGAGTAGATGGAGAGGTGGTTGT	776	56.33
TTCACTGTTGGATGGAACGATT	627	58.03
ATATGGAATATCTTATGGTGACAGGAAC	354	57.93
TTGAATGTCGGACTIONACTGGTT	590	58.16
AAGTGAGGAGGAGGATGAAGC	269	56.15
ATGGCACGAATGATGAGAGTTG	334	58.66
CGCATAAGTCAATCAGCTACAAGT	47	56.57
AAGAAGCACAGCAGAAGCAAC	68	56.13
AGAATATAGCAGAAGTGATGATTCAACT	654	56.3
AGAATATAGCAGAAGTGATGATTCAACT	294	56.3
CCTCACAGCATGTACGAGCCA	1233	60.81

TAATGTGAAGTGTAACGGCGGAT	40	59.39
AACATGCAACTCTGCTTCGTT	47	56.26
CCTCACAGCATGTACGAGCCA	1240	60.81
TTGACATTGTTCACTAATATGGATG	149	56.64
CGAGTGTTGTCGTGTGGTCA	88	57.66
AATGACCGTAGTAATGTCCATCCTG	250	59.19
GAGAAGGCGAGCTTCTGCTC	98	58.11
CCGATAATCTTGGCTCTTATTCTGG	60	60.23
CCAATTCTGTGCGATTGCTCT	557	58.93
GACTGAAGGTTGTCTGTCCGTAC	526	56.49
ATGGACGAGTACGAGCGGTT	518	58.28
ATGGACGAGTACGAGCGGTT	737	58.28
ATGGACGAGTACGAGCGGTT	704	58.28
GGCGACAAGAGCAAGGAGAT	434	58.08
ATTGGCTGTTGCTTGTGCTG	4423	58.52
ATTGGCTGTTGCTTGTGCTG	4470	58.52
ATTGGCTGTTGCTTGTGCTG	4720	58.52
ATTGGCTGTTGCTTGTGCTG	2980	58.52
ATTGGCTGTTGCTTGTGCTG	2092	58.52
ATTGGCTGTTGCTTGTGCTG	4420	58.52
ATTGGCTGTTGCTTGTGCTG	3295	58.52
GAAGTAGAAGATGAGCATGAAGAAGG	38	57.9
GGCTCTCAGTGACCGAGATATGG	39	60.92
AAGTAAGCGGAATGGAAGAATG	2264	56.27
TGTGAGATATACAGTGAAGGTTGACG	403	58.32
ACCGCATTCAATTGGAGTTCTG	142	58.64
AAGGTGTGAGCAATGTGGAGA	840	56.83
TTGTCAAGGATCTCAACGAGTTC	330	57.08
CTGAACGTGCATTTCGTCATG	306	57.28
GGAATCGGTGTGGCACTACT	479	56.17
TTCTCCAATATGTTAATGACTATCCA	741	56.35
GGATTGTCGACTTGTGCCAT	288	57.04
CGAGTTGCGAGAAGAAGAGAAGA	2874	59.03
TAGTCCTACTGGCTATTGTAGTTCAGG	67	57.45
TGTTCTTGATGATGGCTATTGACC	310	58.99
CAGCAACGGAAGCAATCATC	160	57.91
GCAGCAAGGAGGAAGTGAGA	1007	56.79
AGATGATTACGAGGATGATGGAGA	1109	57.74
TTCCTGTCGGCTTACAATCG	328	57.44
GGCGCTCACAGATCTCTTCA	241	57.71
CAAGCAATTCTCCATCAACTTC	758	56.7
CTCACTCGCAGCCACAACAC	230	59.05
AAGCATATTCAGGTAGAGTATTCGG	355	56.1
TCTTCTGCTGATGTGCGATTTC	473	57.64

GAACACATCTTCGTCTTCTTCCAC	133	57.93
TTGGCGTTGGTAGAGATATTCG	435	57.9
GATCAATCTTGTCATCACTGAAGTCA	962	58.31
GATCAATCTTGTCATCACTGAAGTCA	1009	58.31
CGATTGCGATCATTGCGAGT	63	60.71
GAGGTCATAACTCAACAAGTCGCT	1912	57.67
CGAATATGCCGCCAACAAGA	23	60.54
GCTGATATTGCTTGCCACCT	147	56.54
GCGGCACAGAGTTGTGAAGA	1408	58.6
AGCTTGCTGCCATCGTCAAC	92	59.98
AGCTTGCTGCCATCGTCAAC	104	59.98
GACAACCGATTCCGAAGGCT	111	60.03
GGAGATCAGTAGGCATTCATTGC	565	58.72
CAGAGGAGGCTATGGAGTTCAC	102	56.65
CTGACATCTCCAGGAACATCGG	61	60.45
TTGGAGATTCCTGTAACAGTGCA	329	58.37
AACTGCTCAATCCGCTCGTT	388	58.54
TCACTTAACTGCACAGTGTCATG	63	58.82
CGCCTTGATGAATTGAGATGG	376	59.11
TTATGTTACTTACAATGCAGCAGCGA	769	60.89
TTCGTTACTTACAATGCTGCTGCT	771	59.15
TCATTGGTATGCCGAACGAA	72	58.57
AATTGCATTGGAAGAGGACTACA	321	56.73
ACTCGGACTATGCTGCTCTCG	635	58.32
CACCGATGTCCACAATGTCTTC	87	58.9
GCTACATCAGACCGTGCTACTTC	178	56.85
CAGTGCTGATGCTGAAGGACA	1041	58.61
CAGTGCTGATGCTGAAGGACA	1109	58.61
CAGTGCTGATGCTGAAGGACA	1041	58.61
CAGTGCTGATGCTGAAGGACA	1109	58.61
GCATTATCCTTCTTCTCCGACTCC	636	60.36
ATTATGTTATGTGTCAAGCCAGCAG	1393	58.34
GAATGCCGTTGCTGAAGTGA	194	58.45
GAATGCCGTTGCTGAAGTGA	34	58.45
GTTGGACTTGATGTTGACTACGAT	1404	56.01
AGTTGGAAGCGTTGATTCTCAG	224	57.24
CTCAACTTGTTCTACGAAGCGATT	561	57.87
GCGAAGCTACTGTTATTATTGATGATC	817	57.73
GTCGTGGAATGTATTGCTGGT	342	56.16
TTCGGTCTCAACGCACACTG	263	59.45
TTCGGTCTCAACGCACACTG	263	59.45
GGTCGTGTCTGGAATGAAGG	782	56.59
CTGTGGATGTGGTGGAGGAG	251	57.49
ATTGATGCCTATAATGAACGGATG	382	57.99

CAAGGACTGTGGAGAGGATACC	43	56.35
TCATCAGATTCTCCACTCAAGACA	489	57.53
TCATCAGATTCTCCACTCAAGACA	489	57.53
TCATCAGATTCTCCACTCAAGACA	510	57.53
TCATCAGATTCTCCACTCAAGACA	483	57.53
GGACAACATGATCGCCTTCC	24	58.93
AAGAGCAGACAGTCCGCCAA	214	59.57
GGAACCTATCCTCTAACCACAGA	430	56.07
GCTACAGATGCTGATGTTATTATTGAG	64	56.62
AATCACATGCACACGTAGCG	63	56.83
CCGTGCGATACAACAACCTCC	68	59.08
GGATAACACCATCGTCATGCTTG	141	60.2
CATCGGCAAGTAACAATAATCAGG	276	58.61
CATCGGCAAGTAACAATAATCAGG	276	58.61
TGATAATGGATATATGAATGAGTTGAGG	671	57.65
TAGAGTTGCTGATGAAGTTGGATG	1307	57.21
TTGAGTTGGTATTACACAGCAA	113	56.91
TTCAGTTGTTGGCAGGAACA	666	56.32
TTCAGTTGTTGGCAGGAACA	625	56.32
GCTCTGCTTGTCTGTGCTCTG	81	57.58
GCTGGAACCTCCTCTCAAGATC	214	58.02
TTGTTCTTCTTGTCTCTACCACTT	31	56.5
TTGTGACCACGGAATTACACG	38	58
GTGCGAATATGATATACGAAGGAA	982	56.21
GTGCGAATATGATATACGAAGGAA	643	56.21
TGTCGGAGAAGGAAGTGGTAA	108	56.02
TGACGGAGATGTTGACATTGGT	80	58.9
GGCCATACGATGATGTCCAT	169	56.73
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GGACAACTCACAGACTACGAGAAGA	970	57.78
GGACAACTCACAGACTACGAGAAGA	1024	57.78
GCATCAGTCAACATGAACAGTCTC	24	57.46
ATAGAGCCAGCATCAGTCAACA	60	56.21
CAAGAGCAACGATGAGATGAAG	34	56.34
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GAAGTCACAATGATTATTGAATTGGATA	352	57.67
CCGGACAATAACCAACTAGACG	37	58.73
CCTACAACAGTACAGAGCATATGCA	111	57.27
CAACGATTACTGTACGAAGCA	485	57.58
AAGTTCGCTCAATTATGTGGATC	77	56.13
CAGTTCGGAAGTCTGCTCAGC	52	57.35
GAGACAGTTATCCAAGATTCTTACCT	448	57.6
GAGACGAAGAGAAGGAACGAGA	527	56.5
TTGGTGCTACAAGAATGATGTG	209	58.62

TTGTGTAATAATTGTGGCCGTTG	40	58.46
TACAACGGATGATGCTTATGGA	174	56.77
TACAACGGATGATGCTTATGGA	174	56.77
TACAACGGATGATGCTTATGGA	174	56.77
CCGAAGAAGCCGTGAAGGATA	153	60.15
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GTACAATGAAGAACTCTACTATCAAGCC	735	56.35
GTACAATGAAGAACTCTACTATCAAGCC	735	56.35
ATCGCTTCTTCCGTGGTCTT	535	57.47
ATCGCTTCTTCCGTGGTCTT	470	57.47
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ATCGCTTCTTCCGTGGTCTT	459	57.47
ATCGCTTCTTCCGTGGTCTT	456	57.47
GCAGATGACGGTCTCGGTGA	23	60.79
GCAGATGACGGTCTCGGTGA	23	60.79
TTAATTGCTATTCTTGTGTCAGATCCG	153	60.6
CTGGAGAGTCGGAAGTTCTGGAT	262	59.71
GTGGTTGAACCGGATAAGGC	189	57.97
GCTTCCGAGAATGATGTTGAG	48	56.09
CAGACGACGATGAGCAGGAG	3003	58.14
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AAGCACTACACGTGGAAGGAA	86	56.11
CAGTTATGAGCAAGATTGACAAGCAG	879	60.27
CGACGAAGATGGAGATGAAGTAG	352	56.77
AAGTCTCTCAAGTTCAGTCCACGA	697	58.2
TAGTGGTTCGTGTCAATGTGGA	357	57.59
AAGACCACACGAGATTCCATTC	892	56.74
GAGAGCGAGGTGGCGAGACT	107	60.64
GAGAGCGAGGTGGCGAGACT	344	60.64
GAGAGCGAGGTGGCGAGACT	214	60.64
GAGAGCGAGGTGGCGAGACT	354	60.64
CCAACATGGAACAGAGTTACTTCG	195	58.72
GAGCGTGGCGAAGCATACATC	556	61.6
GAGCGTGGCGAAGCATACATC	491	61.6
AAGTACATCACTGTGTCGCTCAA	450	56.2
AATGTCAGAATCAGTGGATCATCA	147	57.15
ATGAAGTTGTTGGTGAATCAAGAATG	2249	59.32
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TGGTCAGCTTCACACAGCTTCTAAC	73	60.77
GTAACCTGAGCCGTCTTGTCTG	50	57.61
CGAATGCGAATGGTGAAGAG	58	57.91
AAGTTGCCACCACCAGTTGC	293	59.6

CACCAGTTGCTTCATATTATCAGAGA	417	57.65
AATCAGAAGGACGAGGATGAAG	43	56.14
TTCGGATTAGCGAGGAGTCTT	520	56.83
TCCGAGCAGATAATGATAGGTG	294	57.06
ATGACCGACGATGTGGACAC	20	57.79
TTCGGATTAGCGAGGAGTCTT	520	56.83
GGCGGATAATGGAATGACAG	565	56.57
GAGTAGTAGTCCTAGTCCATCCTCATCA	949	58.42
GAGTAGTAGTCCTAGTCCATCCTCATCA	924	58.42
GAGTAGTAGTCCTAGTCCATCCTCATCA	501	58.42
GTAAGATGTCAGATGAACGAATTCAACA	133	60.54
CATTCGTCTCGGAACTCCAG	1231	56.92
GTGAGCAGAAGAGCAGCAACT	79	56.16
GTGAGCAGAAGAGCAGCAACT	58	56.16
GTGAGCAGAAGAGCAGCAACT	43	56.16
GTGAGCAGAAGAGCAGCAACT	79	56.16
GTGAGCAGAAGAGCAGCAACT	58	56.16
CGAGATGATGAAGCGTGAAGG	2733	59.41
CGGTAATGGATGTTGATGGTC	471	56.34
GCCGCTAATATTCAACAGCAGTT	26	58.52
CATACGGAGGAGCAGCCACT	59	58.9
TAATTATGAAGATGCAATGGATGTG	571	56.86
AGATCCATCGAAGCATCACG	488	57.29
AGATCCATCGAAGCATCACG	488	57.29
AGATCCATCGAAGCATCACG	488	57.29
TTCATTCTCGGCGAAGTTGA	1256	58.03
TTCATTCTCGGCGAAGTTGA	1414	58.03
TTCATTCTCGGCGAAGTTGA	1310	58.03
TTCATTCTCGGCGAAGTTGA	1468	58.03
CCAGCAGAGTCGGATGATGA	1517	58.34
GCGAAGGTTCCAATCATTCTG	1203	58.25
AATGCCATCCTAATCAGCAGATAC	865	57.42
AATGCCATCCTAATCAGCAGATAC	908	57.42
ATCCTCCTGCCACATATTCGT	2977	57.1
CAACGGCTTGTCAATGTCCAG	127	60.11
CAACGGCTTGTCAATGTCCAG	566	60.11
AACGGAAGACTTGTGACGCT	2244	56.11
CAACGGCTTGTCAATGTCCAG	127	60.11
CAACGGCTTGTCAATGTCCAG	566	60.11
AACATCAGAGGAGCACAAGGA	471	56.03
CCATTGAGATGTTGTCTATTGAACG	287	58.6
ATGGCGTTCAGACAGGATTC	141	56.23
GCGACAGCGAGTGGTGATGA	651	61.95
GCGACAGCGAGTGGTGATGA	657	61.95

AACTGCGACAACCTTATGACG	877	56.53
TTCACATAGGTGATAGACGTGCTACAGA	37	61.13
CTCATCAACTACAACACGGCGAA	56	60.99
GCACTATTAAGGTCTCGGCACCA	210	61.25
GGCTTCAACTCCATCCAACA	383	57.17
GCACTATTAAGGTCTCGGCACCA	338	61.25
GCACTATTAAGGTCTCGGCACCA	210	61.25
TGGCTCTCACAGTCGGAACA	852	58.97
GAGAGAATCAAGTCGGAGCCAA	529	59.42
ACTGGAGTTGGCAAGACACTCA	574	58.45
CGCTTGGAAGTGAACATACGG	836	59.22
GACTAATTGAGGCAATGCGATG	618	58.33
GACTAATTGAGGCAATGCGATG	618	58.33
TCACACGATTGCTGGATACCG	886	60.47
CAGGATATGAAGAAGATGCTGGT	1353	56.16
CAGGATATGAAGAAGATGCTGGT	1353	56.16
CGCACTCGCTGGACTCATTG	792	61.49
CGCACTCGCTGGACTCATTG	768	61.49
CGCACTCGCTGGACTCATTG	1282	61.49
CGTGATGATTGCTCGTGCTC	1044	58.99
CAGGAAGTTGTGAAGCAGGTC	44	56.1
GAGAAGAGAGCCAGAACAAGGA	169	56.5
CTTCCAATCGGATGATTGAGG	254	58.05
CGTCTGACACCTGTAATGGATGG	307	60.23
CAAGGTCCGAACTCTGCCAT	563	58.73
GTTTCATCCTACCTTCCATTCCA	192	56.64
CGAGCGGCTTCCTAAGAGAG	196	58.05
TGTCAACAACAGCTATCAATGAGA	78	56.25
CTCGCCTTCTTCATTCTCCTT	132	56.42
AACATTCGTACATTGGCACCT	60	60.23
TGAACACGGCAGCGAGTACA	210	60.02
ATTCGGCTCTGCTCGTCGTA	402	59.57
ATTCGGCTCTGCTCGTCGTA	441	59.57
TCATAACCTATGTGACTTACTGCACGGT	463	61.92
GATGATGATGATGAGTGCGATGA	672	59.5
GGCGGACCTACATAGACGAA	180	56.39
GGCAGAAGCAGCAAGTCTCTT	693	57.57
AAGGATCGCCTGAAGTACTCC	265	56.15
TTGCTGTCTTGGTGACATTGAG	37	57.47
ACTATCGTTGGCTGCTGCTG	135	57.74
CTGGCGGTTAGATGTGGATT	293	56.24
CGACAATGTCCGATAACGCA	52	59.13
CGACAATGTCCGATAACGCA	85	59.13
AAGGTGCGGAAGGCTCATTG	621	61.07

CGACAATGTCCGATAACGCA	52	59.13
AACGATAAGACAACGAGAGAGCA	111	56.97
GCTAGTGATGTTATCTGGAATAACTGTT	348	56.57
AACGATAAGACAACGAGAGAGCA	111	56.97
TAACCGAATGTGCCTAGATGACAA	468	59.51
GTTGATGATTACGCTAAGGCTTATCTC	519	58.88
CGTCGGCTACACATCAGGCA	957	61.74
GTCTATGTAATTGTTGCCAGCCAGA	835	60.33
TTGTGATCAATCATGGACCATT	233	56.32
TTCACCTGCGGAGATCGTCA	104	61.3
GCTGTTGCTTCGCAGGATGA	1465	61.03
GCTGTTGCTTCGCAGGATGA	1465	61.03
ACTGGTTGTGGAGGTGTTGGA	408	58.9
TGAACCACAAGCCGATAAGC	241	57.44
CCGGTGGAATCATCCGAGAA	284	61.67
CGGTAGTTATGCGTGAGTGTGA	35	57.46
CATTATTCGTCTGGTTGCGTCA	584	59.59
CGTTGTGAAGAAGCCTATTGAGC	1566	59.06
TTGTCCAGATGAACCGTCAA	397	56.08
GCCAGGACACATTCAAGAG	518	56.83
AGTCCGATTGTGATACCGATG	82	56.09
CCACCGACGAGAAGAAGACA	237	57.45
CCACCGACGAGAAGAAGACA	113	57.45
TGACCACTCTCTCTCTCCTCTAT	565	56.43
GGAATATTACCACCGGTGAACATG	53	58.65
GCTGCGTCGTCTTGCTCTCA	329	61.38
GCTGCGTCGTCTTGCTCTCA	145	61.38
TGCGTCTCTTCGTCTCCGTA	66	58.2
TGGTAGCAGCTCGAGACGGA	60	60.64
GATGAAGCTGAATGGTGCTGGAC	71	61.81
TTCAGTCGGTCTCACAGCAG	230	56.08
TCGAGCCGTGCAAGAAGATG	272	61.02
TCCTCGCTGTTCCATGATCC	64	59.59
GTTGGATTCTCTGGAGCCGAT	2096	59.13
GAACTGTTGCGACTACGGCATG	107	61.51
CCATACTGATTGCATGAACGG	428	57.58
CCATACTGATTGCATGAACGG	607	57.58
CCATACTGATTGCATGAACGG	607	57.58
GACAATCAATGGAGCATCGAACTC	298	60.77
GACAATCAATGGAGCATCGAACTC	298	60.77
CGATAATGTTAATGGCTATGTGGA	716	56.88
AATTCGATTGGAATCTTGGT	332	56.3
ACCTTCGGAGTAGTCATTGTTGC	135	58.32
ACCTTCGGAGTAGTCATTGTTGC	135	58.32

CGGTTATGGTTGAACTTGAAGGAGA	298	61.4
TTGAAGATCTCATTGAAGTACATGGAA	418	59.09
TTGCAATCAACTCGTCAGTGTT	154	57.01
GACCGTCAACTTCTGGAGGA	129	56.3
AAGTTGATGTCTCATGCTGATGTG	481	57.87
GCTGTACGGTCTGCTGCTGT	2170	57.72
GCTGTACGGTCTGCTGCTGT	2179	57.72
AAGAGAGCAATCCGCAACTG	1829	56.77
ACCTTCTCAGCACCGTCAGC	384	59.04
GATGAGCCTGATAATGATACTGATGT	788	56.56
TCCTGCTCAGCCAGAACGAA	782	60.62
TCCTGCTCAGCCAGAACGAA	654	60.62
TCCTGCTCAGCCAGAACGAA	658	60.62
TTATTACGATTCTGACGACAATTCTGA	589	59.13
CGAGGTATGACCTCATTGCG	71	57.78
CGACCACTCGACGTTCAAGA	53	58.45
TTAGAACTGAGAACTGTTGGACAAGT	548	56.56
TTAGAACTGAGAACTGTTGGACAAGT	548	56.56
ATGATCGTGTACAATGATACCAGAA	418	56.33
ATGATCGTGTACAATGATACCAGAA	418	56.33
ATGATCGTGTACAATGATACCAGAA	380	56.33
ATGATCGTGTACAATGATACCAGAA	303	56.33
CATTCTCACGGTTATGTGGCT	308	59.84
CGGAGCCACTGATTCACGAT	1039	59.65
CGGAGCCACTGATTCACGAT	1049	59.65
CGGAGCCACTGATTCACGAT	1081	59.65
CGGAGCCACTGATTCACGAT	1091	59.65
CGGAGCCACTGATTCACGAT	1499	59.65
TGCTTGTTGAAGAAGGATGG	503	58.76
GGAAGTCCATTGGTATCAAGTGTT	966	57.16
ACGATTATTGTGTTGGTAGAAGAGG	51	56.67
TGTTGAGACCGATGAGAATGC	181	57.34
TGTTGAGACCGATGAGAATGC	340	57.34
AACTTCTGCTCCGATAACTGCTT	1264	57.47
GGACAAGCTGAGGCTGCTCA	353	60.25
AAGCAGATGCCGAAGAAGAAC	76	57.31
CATTCAATTATCCAGTATTGCCGTTA	1236	58.1
AAGATTGTTGTGGAACCTGAAGA	119	56.52
CATTCCAACCTCTGGTAGTGCTTC	250	56.69
GGTCAGAAGCATCCGAAGGC	347	60.68
CCACAGTTGCCTACAACATCG	143	57.76
ATTCTGCTGCCGTTGAAGTC	82	56.61
TAACATAACTGGATTACAACCTGGTCAA	861	57.04
TAACATAACTGGATTACAACCTGGTCAA	861	57.04

GAATTAGTTCCTTGTCTCGCATGT	195	57.56
TTGGCTCACAGAATCTACCTTGT	332	56.69
TTATGAGATAATGGATACATTAACGGA	1119	56.22
TACACGTCCGAATGTGATCCAG	496	59.44
CGATTCCTCTGATGATGACAGC	122	58.35
CAACACTATGAAGCCTACGGAATC	476	57.92
TTGTGGATCATACTATCGTGCTACT	1750	56.42
GTTGGAAGTATCATTAACAATATGCTCT	571	56.49
AATGGCTGAATGGTCGGTCT	611	58.06
GGTCGGTGTATTCTGCTTCG	615	56.89
ACCACATTGTCCGAGTTCCA	402	57.42
ACCACATTGTCCGAGTTCCA	948	57.42
CCATGGAAGCTGATCAGGAAT	91	57.67
TCCGAAGCGAAGATCACGAT	25	59.36
TTGGAATTCTGATCATGAGCATAG	622	57.05
GGAATAGGTGTAGCGAATCAAGC	314	57.99
CGATTCTCATCCATGTAGAAGTTG	243	56.61
ACACCAACCAATGGAACGAAG	105	58.41
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ATGGAGATCTGGCAGAATGC	880	56.32
ATGGAGATCTGGCAGAATGC	796	56.32
ATGGAGATCTGGCAGAATGC	880	56.32
ATGGAGATCTGGCAGAATGC	796	56.32
ATGGAGATCTGGCAGAATGC	880	56.32
ATGGAGATCTGGCAGAATGC	796	56.32
ATGGAGATCTGGCAGAATGC	880	56.32
ATGTATCCAGTATTGCGTCAGGTC	106	58.1
AATTGCCGTGCTCATGTTCT	505	56.89
CGAACATATCTGGATCTTGCG	1296	56.95
CCAACAACACCAAGTTCAAGG	122	56.7
CCAACAACACCAAGTTCAAGG	122	56.7
CCAACAACACCAAGTTCAAGG	122	56.7
CCAACAACACCAAGTTCAAGG	122	56.7
CCAACAACACCAAGTTCAAGG	122	56.7
CCAACAACACCAAGTTCAAGG	135	56.7
ACAATTGGCATAATTAATATTAATAGCG	847	56.56
TCCAACACCACACCACTGTCACT	164	61.27
ATGCTCGTGAGCGATCCGTT	72	61.64
ATGGAAGAGATGAGGAGGTCACAGA	2791	61.26
ATGGAAGAGATGAGGAGGTCACAGA	2800	61.26
ATGGAAGAGATGAGGAGGTCACAGA	3115	61.26
ATGGAAGAGATGAGGAGGTCACAGA	2647	61.26
CATCTACAATCTCATATTTCCACCA	519	59.17
TTGCAATGGCATGTTATGGA	391	57.04

TTGCAATGGCATGTTATGGA	506	57.04
AAGGAGAATCCGAAGAGAATTAAGATG	195	59.53
TGAATGATGATAGGTTGTTGTGTG	613	56.22
AGCCGACACTGATTACCAT	765	56.62
TTCGTGCTATCTCTACTGCGGT	349	59.08
GGCGATGTACACCATGAGGA	37	57.96
TTGCTTATCGGTATCAGGTGCT	398	57.54
GCGGACTTACTGTTCTGCGGAT	301	61.42
GCTTATCCAGTGCGTCTTCATC	296	57.58
GCTCTTCAACACCACCATCC	497	56.59
GGAGTGTAGGATTAAGAAGTGCTTATCG	241	59.91
TCGAATCGTCATCATTCCAAT	166	56.55
AGAGCATTCAAGTCGCCGTCA	215	61.78
ATAGTCAATCAGAACGAGAAGCAGA	2591	57.47
AGACTTGTCGACTGCACAGA	260	57.11
CATTGACTATTCCAGGCGTGA	1871	57.31
AACCACGGCGACAACCTATGC	404	60.85
CGTTCTTCTCGGCAACTTCCTC	195	61.16
CGATATGACGGAATTATATTATAACGAA	453	57.08
TAATCAGGCTAACTATCACTATGTGCTG	768	58.21
TTCTTACCAGGAGGAGGAGGCA	82	61.01
CCTCAGGACGATCTAGCATACTCA	879	58.55
CGTGGAGGTTGAGAATGGAA	112	57.17
CGATCAATTACGGAAGATGATGTAG	411	57.82
TGTTACTTCCGCTTCCTGGT	48	56.03
TTGTTACACGAATCTGGCATCC	287	58.56
ATGAGATGAGAGAACAGGCAGAAG	214	57.8
ATGAGATGAGAGAACAGGCAGAAG	214	57.8
CGCTGACACTCCTTATGAGACA	261	56.71
TCTACACTGATGTGCTATCAGCGT	247	57.73
GGCCATCTCCACTCTCGTAA	197	56.39
GTTGTCTGGAAGTAGCCAGGTGT	89	58.32
AAGCAGATTCAGAAGTTACAGAGTCTT	88	56.55
AAGCAGATTCAGAAGTTACAGAGTCTT	196	56.55
CATGAGAGTTGTACTGGATTGTCAA	666	57
AAGTGTGCGACTACTCGGAGA	376	56.29
CTTATGTGGTCCACGTTCTCTCA	26	57.86
CATCAGTTGGACCACGGACA	75	58.94
TGAGAATCATCGCATTGGAA	573	56.24
GGACGCTGTTCTTGATGCTC	128	57.07
GGACGCTGTTCTTGATGCTC	97	57.07
AATGGACAATCTGTTGATGGAGA	843	57.14
AATGGACAATCTGTTGATGGAGA	922	57.14
AATCATTCGAGAATCAACTGTCTG	91	57

TCACCTCCGAATCTGTCTCC	76	56.23
ACCTCCGAATCTGTCTCCGA	44	58.27
AACTTCTGATGAGCGACGAGGA	567	59.97
AACTTCTGATGAGCGACGAGGA	72	59.97
AAGCGTGCCAATATGGATGTG	142	59.43
TTATCGGACCATTACAAATTCTCA	814	59.32
AATCCAAGACCAGCTTCATTCG	291	59.2
TCATAATAACCACAGAAGAAGAGGCT	199	57.74
TATGACACGAGCACCAGGAGA	131	57.91
TTCGGAGCAACAGCATACGC	566	60.87
TATGACACGAGCACCAGGAGA	131	57.91
TATGACACGAGCACCAGGAGA	205	57.91
AAGCCGAGGAGAGATTGAAGA	831	56.84
GACATCTGGAGACTCGGAACG	71	58.33
CCTCCATCAGCAGGCTCAGA	77	60.06
GCTCCTTAGCGATGCGTCTA	26	56.99
GCACTTCTCGGACCTGTTGA	724	57.45
GCACTTCTCGGACCTGTTGA	724	57.45
TACAACTGAAGCAACCACGACA	395	57.95
CAGAGAGATACTGGAGTGTCTATTGG	1176	59.58
TTACGGCGAGTGTGTGAAGTC	735	57.49
TTACGGCGAGTGTGTGAAGTC	691	57.49
CCGCCATCTTCCTCTTCATCTC	895	60.99
AATCACCACCGACAACGCAT	1668	59.82
TGGAAGCCGAACAGTCAGTG	117	58.45
TGGAAGCCGAACAGTCAGTG	115	58.45
TCTGGAAGTTGGAATGACCGA	330	59.1
TCTGGAAGTTGGAATGACCGA	384	59.1
TCTGGAAGTTGGAATGACCGA	330	59.1
TCTGGAAGTTGGAATGACCGA	384	59.1
TCAACTGGAGCATTCAAGGC	2210	57.48
GTGAGGATCAGCATAACAATGGA	437	57.68
GTGAGGATCAGCATAACAATGGA	322	57.68
TTGATGTCGTTGAGGAAGAGG	1522	56.45
CGACAGCCGAGACAACAAGA	83	58.6
CCTTGTGTGTTGGTGCTTCG	981	58.77
GTGACATACCTCTCCACCAATTGC	31	60.57
TTGAAGTTCCGTGGAGCATATACATC	70	61.26
GCAGAGAGTTCAACTGTCACAATC	65	56.77
GCAGAGAGTTCAACTGTCACAATC	188	56.77
ATGGAATGGATGTCGGTGTC	1410	56.65
ATGACTGGAGGACTCACCGAGT	1533	58.68
ATGACTGGAGGACTCACCGAGT	1395	58.68
ATGACTGGAGGACTCACCGAGT	1395	58.68

GGATCAATTGCTGGTAACCTGA	91	57.67
ATGACTGGAGGACTCACCGAGT	1375	58.68
TTGATCCTTCGCATCCAATGG	312	61.63
TTGATCCTTCGCATCCAATGG	397	61.63
ATGGATTGGATTCAAGTACACACA	99	56.42
TATCCTACCAACCAGCAACTCA	257	56.04
GATCCGTGGAGTCCGAGTGG	798	61.4
CTGGCGGAGGAATCTTGACA	1246	59.77
TTCACAAGTCGATTGAAGCATT	1384	56.15
TTCACAAGTCGATTGAAGCATT	694	56.15
TTCACAAGTCGATTGAAGCATT	638	56.15
AGTAGATGTGACGATCAGATCCAGA	678	57.92
GCCTATGAATGCGTGTCTGTC	78	56.9
AATTGAGAACAGATTCAAGGACTACA	540	56.42
ATTGGTCACGATTCAAGACGA	130	56.72
TGTCGGATGTGTTTCGCCTTC	181	60.61
GCGGTTCTTACATCTTGATATTAGG	1194	56.42
ACGTTCCATCTCGAAGAATGAGTC	34	59.61
GACGTTGAGCCAGAAGGAG	50	58.61
CGAAGAGCTTATGCTTACCTATGAG	52	56.89
GCCAGAAGTTCATGTATTCTCA	321	57
GCCAGAAGTTCATGTATTCTCA	385	57
AGCAGTTCAGCATCAATGGAC	31	56.47
AGCAGTTCAGCATCAATGGAC	49	56.47
GGCTTCTGCCAGAACATCCA	89	59.77
TACTCATCGCCTGTGTTGCA	63	57.44
CCAAGAGGTGATATGATCAAGCT	932	56.16
CGAGGCAACACCAACGACAA	1375	61.61
CGAGGCAACACCAACGACAA	1102	61.61
TGTGCTGACTTGGCATGACAT	316	58.74
AGAGATGAGATGAAGGCCACTG	280	57.09
GGCTACCAAGACCTCCACTACTTG	67	59.22
CCTTGTTGATCGGTTAGACA	37	56.44
GTCCAATCGCTGCTATGTATGCT	95	59.28
TACTCCAACCTCCTCCTTACTGTCTT	83	57
CAAGCAGTAGTGCAAGAACGAG	58	56.64
AAGACAGTAAGGAGGAAGTTGGAGTA	69	57
TTGGATGCGTGAAGATTGCTG	175	60.72
TAACTTCCACTCTACTCAACAGCATT	165	56.63
TATTGATGTGGAAGGCCGATGA	784	57.64
TATTGATGTGGAAGGCCGATGA	791	57.64
TATTGATGTGGAAGGCCGATGA	605	57.64
TTGTTGCTCTCCTTGTCATCG	43	57.55
GTCAGGAATCGGAACACAATACACA	1524	60.93

GTCAGGAATCGGAACACAATACACA	1363	60.93
GATGTTGTTGTCATTGGATACTTCA	524	56.76
GATGTTGTTGTCATTGGATACTTCA	524	56.76
GACACCACCTCCGATGATGC	546	59.91
GACACCACCTCCGATGATGC	546	59.91
GAGTCTGCCGATGTTGTTGTC	511	56.83
GAGTCTGCCGATGTTGTTGTC	511	56.83
AACTTGAGGAGTTGAAGAATGAACA	53	57.23
AACTTGAGGAGTTGAAGAATGAACA	53	57.23
AGCAACAACAACCACAGCAAGG	669	61.05
AGCAACAACAACCACAGCAAGG	689	61.05
CGGCGGCTGATCTTGATACTC	560	60.67
CGGCGGCTGATCTTGATACTC	580	60.67
ATTGCTATCGGACCTCAACG	191	56.39
AACGACGCCACAGGAGATGT	67	59.17
CACGAAGCCGAATATGGTTC	245	56.78
TATGTCACTGTCCTTATCACTCGCT	65	58.05
GTTCTCAGAGTCAACAACGCTCA	28	58.25
GACACCTCTCTTCTCGATGCC	51	61.07
TATATTGAGGTGTAGACTATGTCGGAA	89	56.38
AAGCTGTGATCCGCACCACA	186	61.22
TTACATCCATACGCCACACACA	1042	58.43
ATTGTTGTGGATATGATTGCTGTT	547	56.31
TCGGTCATCTGAGAGGAATGC	304	58.82
TTCCATCATTACGGAATGAGAATC	50	58.02
CGGACTCCACTGAACTTCACA	129	57.37
CCCACTAGAACAGTTCGAAGCG	491	59.93
CCCACTAGAACAGTTCGAAGCG	98	59.93
CAATCAGGAAGGATGGTGAGAAC	1330	58.56
CAATCAGGAAGGATGGTGAGAAC	1330	58.56
CAATCAGGAAGGATGGTGAGAAC	1072	58.56
CAATCAGGAAGGATGGTGAGAAC	978	58.56
CAGACGATGGAGAGCAATGTAC	161	56.05
ATCATTCGACCTGGACTCATTCG	213	61.14
CGAACGATTCCATCAACGAT	597	57.08
ATGCACACACAATATACAGCATTG	623	56.39
ATGCACACACAATATACAGCATTG	623	56.39
TGATGATAGAGCACGACAGATTAGAAG	540	59.03
CAATGCTTCCGCAATATATCTTC	383	56.7
CGTGCGTATGCTGCAAGAAG	204	59.22
CAGTGTGTTGAAGAAGTGGAAGTAG	53	56.05
GTGAAGAGGCAACTATTCATAATCTTAG	777	56.4
TTCTCAAGTTCGCCATTACTCCAG	53	60.55
TACTATGACAAGCAGAATGACAAGACC	338	58.84

CAATCGGTAATGGAAGCATCTCA	245	59.92
TCACATGAAGAGGACTCGCA	53	56.45
CGCATACTACCAACTTGCCA	43	56.01
CGCATACTACCAACTTGCCA	43	56.01
AATCAGTGGACGCTGCTACG	92	57.59
TTCCGAATACGATTACATCCACA	242	58
TTCCGAATACGATTACATCCACA	432	58
TTCCGAATACGATTACATCCACA	263	58
TTCCGAATACGATTACATCCACA	453	58
AGTGTCTACTACGCATCATTAGCAAG	293	58.31
CGATAATGGATGTATGGAATATGC	500	56.25
TTGACGATCATGTTCCAGGA	1001	56
TTGACGATCATGTTCCAGGA	1124	56
GATCAAGCTGGACGATCCTCA	45	58.82
CTCGGTCACTTCCTACGCCACT	636	61.48
TGGCATCAGGTAGACGACGAA	69	60.22
TGAAGTGAAGCGTTGGTATGGA	2078	59.21
TCAGAATAAGGATCAGGCGACA	108	58.4
CCACTCCGTCTTCATTGTTGTC	1391	58.16
AGAGCCAGTCAAGATTCCATCAGAG	983	61.02
AGAGCCAGTCAAGATTCCATCAGAG	3395	61.02
GAAGGCGGCAATCACGAATC	166	61.42
AATACTCGAACACGCTTAACCAG	76	56.42
GGAGGAAGTAGTGATGATGGAGCA	552	60.43
ATGTGACGATGATTATGTGTGTAAGTTC	230	58.43
GCACCAATCCGAGACTGAAGG	75	60.58
TGACGAACGATACGACAGTGCT	2877	59.4
TGAAGGAGGATGATGGTGGA	774	57.43
AATATCTTGTATCTCACAGAATGGAATG	2196	57.06
CGAGGAGGTACTGCTGGTAGAC	349	56.74
CGAGGAGGTACTGCTGGTAGAC	286	56.74
GTCGGCTGCTGAAGCTGTGA	1828	61.24
GTCGGCTGCTGAAGCTGTGA	1889	61.24
GGAATGCCGATAGTTGTCTCTT	559	56.14
CTCATCACCTCTTCCACCACCA	1587	60.87
GGACCAGGCGACAGACAGTA	55	57.32
GGACCAGGCGACAGACAGTA	102	57.32
CGAAGGTGTCAATATGAATGTTGTTGT	371	61.1
GAAGAAGTGCGTCGTCCAAC	191	56.97
CCAAGCCAACACTATCGGAAC	53	58.18
AATTGCCGCCGCTTATGTTG	968	61.74
CCACGAAGGAAGACGGACTC	208	58.32
GAGTTCCAATGAGTGATGAGCA	1364	56.45
GAGTTCCAATGAGTGATGAGCA	1373	56.45

GAGTTCCAATGAGTGATGAGCA	1490	56.45
GAGTTCCAATGAGTGATGAGCA	1516	56.45
GAGTTCCAATGAGTGATGAGCA	1625	56.45
GAGTTCCAATGAGTGATGAGCA	1557	56.45
CAGGAGAACCAGAAGCGTATCAC	119	58.9
CAGGAGAACCAGAAGCGTATCAC	119	58.9
TATGAAGGAGCAGAAGGTTATCG	1185	56.42
TATGAAGGAGCAGAAGGTTATCG	1185	56.42
TATGAAGGAGCAGAAGGTTATCG	1165	56.42
TATGAAGGAGCAGAAGGTTATCG	1097	56.42
TATGAAGGAGCAGAAGGTTATCG	1085	56.42
AAGGATATGTTGCCGCTGGA	182	59.13
AGATTGTCGGATGATCTTGTTC	401	58.07
TCTACGAGAGAGCTGATAATGGAA	586	56.18
CGAGCACACCTCAAGATTCATC	498	58.4
TTATCGGTGGCTTGTGGTGA	361	58.57
TGAGGAAGCATTGTGGTGAA	562	56.25
TGAGGAAGCATTGTGGTGAA	561	56.25
TGAGGAAGCATTGTGGTGAA	726	56.25
TTATTCTTGAGTCATGGAGGCTTA	1120	56.02
TTATTCTTGAGTCATGGAGGCTTA	1227	56.02
AGGAGTTGTCAAGGAGGCTCA	333	57.58
TTGTTGGACTGGCTGCTGGT	627	60.26
CTAGAGGAGTCCGGTAATTGGTG	69	57.85
AGGCGAGAGCAAGAGATGTG	83	56.82
ATGAAGAAGGAATCGTTGTGAAG	1294	56.19
CACATCTCTTGCTCTCGCCTT	91	58.29
GCTCGGATTCTGATTCTGGAT	260	57.75
CCTGGTTCAGAGAGTTGGAATG	4049	57.39
TTGCGAGTGTGTATATGATAGTCTGA	1761	56.81
ACTTGTTCTTGACGAGGCTGAC	623	57.2
AGGCATTGTCTGGCGAGCAT	462	61.64
GGAGGTCCTCAATATCCAATACTCG	335	60.02
GGAGGTCCTCAATATCCAATACTCG	397	60.02
TCAGGAGCAGAGAAGGATAAGAAG	1410	57.16
TCAGGAGCAGAGAAGGATAAGAAG	1410	57.16
TCAGGAGCAGAGAAGGATAAGAAG	1342	57.16
AAGGATCTTGGAGTCCTATTGCT	204	56.32
CCTGTATAATCGCCGTAACCG	160	58.15
ATGAGTGGTTGGTAGTCGTGGT	36	57.05
TTGGCTAAGGATGGTGGAGA	382	56.8
GAAGTCCATCAGAGCCACGA	415	57.39
GAAGTCCATCAGAGCCACGA	480	57.39
ATTGACGACGACGATGATGA	524	56.03

ACTGAGAATGTGGATAACATGATGG	691	57.96
GCCAGACTCATCAGCAAGAAGC	927	60.11
CCATCGTTACACCATCGGCAT	660	61.44
CCATCGTTACACCATCGGCAT	1134	61.44
AAGGATAAGAAGACCGACTCGAA	273	57.26
ATTCCGAGACTTGCGAGATTG	75	58.01
CCGATTCATTGTGTGAAGACAGA	888	58.69
AAGAGTATTCGTCTAACATCCTGTCTT	3263	56.24
ATCCACCAGCACCAATACTCA	1795	56.6
GGAGTTGAGAGATTGCGCATT	816	56.96
AAGCCATTGCTGATGAGGATT	818	57.37
TTCTGGTGTGCGTTCTCGTT	966	57.95
GCGAGTGATATGCCTCTTGTC	47	56.12
TTGTGTTTCGTGAATCTGAACAGA	539	57
AATCGGATCTGGAGATTACTGATC	1143	56.49
TCATTGGTGGTGTGCTGCTGCT	671	61.22
TGACGCTGTCTATACATCTCTTCG	716	57.37
GCAGATTCAGTATTATTCATGGACA	583	56.14
GCAGATTCAGTATTATTCATGGACA	583	56.14
CGAAGGATTGCTTGAGATACTTC	591	56.03
TTACAGTCTATGTGGAGAAGCAACTG	442	57.81
TTACAGTCTATGTGGAGAAGCAACTG	442	57.81
AATGCGACACAACGTCCATC	505	58.02
AATGGCTGTTGCTTGCTGAA	585	58.11
AATGGCTGTTGCTTGCTGAA	657	58.11
AATGGCTGTTGCTTGCTGAA	546	58.11
TGCTATGGCACAACCTTGCTATC	94	56.74
CGATCATCAATACAACAATCAACG	237	58.06
AAGTGGAATTCTTAGTTATGTTGCG	924	56.89
TGAATGTCCGAGTCATAAGCAG	555	56.61
AATAATTCTGCTCTTCAATCTTCTGTTC	178	57.87
ATGGATACGGCTCAGATGCTT	2257	57.39
AATGACAGGCCTGGACGTTG	120	59.55
AATGACAGGCCTGGACGTTG	138	59.55
AATGACAGGCCTGGACGTTG	61	59.55
CTACGGATGGATTGGCTACG	509	56.82
CTTCACAACCAGATGCCAATG	163	57.68
CTTCACAACCAGATGCCAATG	180	57.68
CTTCACAACCAGATGCCAATG	91	57.68
TTCCGATGTGATCCTTGTAAGTTG	473	57.73
GCACAACGGCTTCTTCTCAA	138	57.69
AGTCTATGCTCAGAAGATTCAGAGAAC	697	56.85
AGTCTATGCTCAGAAGATTCAGAGAAC	663	56.85
GGAGTCTCCTCTCACAAATATTGTGTCAT	40	60.87

ATGAATCTCCGTTGAAGCCA	988	56.8
GAAGAACTCCAGCAACTACGCA	28	58.27
GAAGAACTCCAGCAACTACGCA	28	58.27
AGCATGCACCGGTACATCATC	172	59.42
GCCTGGCAACATTCACAGAA	945	58.3
GCCTGGCAACATTCACAGAA	940	58.3
CGGTCGGCACAATGATATGC	82	60.83
CTTGAGATTCACAGAAGAAGATGC	485	56.09
CGGTCGGCACAATGATATGC	123	60.83
GGATTATGGCGATGGTAGAGG	293	57.14
GCGATAGGTACCACGGTCGA	117	59.54
TGGTTGAAGAGCAGCAGTTG	261	56.22
TCGCAATCTACAACAAGTGAACA	86	57.13
TCGCAAGATTCACAGAAGCAG	733	57.85
TCATCTCGCAACATTCACAGA	920	56.43
TCCAATGTCTGCTGCTCTACG	74	57.73
CACCTATAATTGCGGCCACA	403	58.26
CCAAGTGGACATCGTCAAT	289	57.04
CTACACTGGTTATTGTGACAGCCGAT	343	61.36
AAGGCATTCGGTTATTACTGTTG	181	57.85
AGATGCTCTTCAGAACTCAGGACA	662	58.29
CGACGGACTGGAAGTCTTA	173	57.57
ATCTCAAGCCACTTACCAAGTTCATTG	460	61.68
GCAATCATTCTACATACATCATGACA	214	56.83
GCAATCATTCTACATACATCATGACA	211	56.83
AAGCCACCGATGGATGAACA	589	59.9
AAGCCACCGATGGATGAACA	603	59.9
AATGGTGATTATGCTCCAGGAA	145	57.18
AAGCCACCGATGGATGAACA	589	59.9
AAGCCACCGATGGATGAACA	603	59.9
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GATTACAGCAACGACGCTTACC	142	57.59
TGAACATCTTATTCGCCGGAA	358	59.14
CCGGATATTAAGGTAAACAACCTGA	328	58.47
AGTATTCAACCAACACGAGATGTCT	763	57.01
ATCCTTGCGTCACATAGAGC	731	57.9
AACCATCGTTATCTGACATGCCAA	127	61.35
ATCATTGAGGACATCATAAGCGA	35	57.33
TGTGTTGCTCAGGATTGTCTG	63	60.79
GGTGGAGCTGCTGTCCTTCA	1346	59.96
GGTGGAGCTGCTGTCCTTCA	1308	59.96
TTCTTCGTCTGCCATCCAAG	36	57.48
AGAAGCAATGGAGCGACACA	1383	58.05
AGAAGCAATGGAGCGACACA	1614	58.05

GCATTAATATGCTACTCACCGGAA	380	58.28
TCTATTCAAGACTGTACGGATTGC	315	56.35
ATCACCTGTCAGGTGGTACTGTAGA	31	57.78
TTCCAGACATGAAGCTGAAGC	503	56.75
TTCCAGACATGAAGCTGAAGC	131	56.75
CCATTGAATACTGAGGATAAGAGAACA	1755	57.95
CCATTGAATACTGAGGATAAGAGAACA	1692	57.95
CCATTGAATACTGAGGATAAGAGAACA	875	57.95
CCATTGAATACTGAGGATAAGAGAACA	955	57.95
CGAGAAGTGACGGCTGATGA	1157	58.55
CGAGAAGTGACGGCTGATGA	1174	58.55
TTGGTGGTTGATTACTGTAGCTGCTT	914	61.12
AGCAAGATAACTGGACCGAATG	1460	57.01
AGCAAGATAACTGGACCGAATG	1415	57.01
TCGTCAAGAAGAAGATGTTCCG	752	58.05
GAGACTAGTGCAAGGCTCAACC	448	56.86
GAAGAAGAGGATGATGCGACGA	1042	60.3
CACCAGCACCACCACCACTC	50	61.01
GAATATGGCAAGACTCTGGCTCA	2327	59.34
GATGGTGTCTGAATATCAACTTGGTG	245	60.43
CCACGCATCCACGTTGGATA	24	61.25
CCACGCATCCACGTTGGATA	24	61.25
CCACGCATCCACGTTGGATA	24	61.25
GTAGTGGTTGGAGCAGCGGTT	93	60.13
GCCGATAACGCCGAACAGTC	190	61.45
AACATACTTCTATGCCAGTATCTACGG	435	57.26
GAAGATGTCCGCCGCTGTCT	515	61.26
GAAGATGTCCGCCGCTGTCT	412	61.26
GAAGATGTCCGCCGCTGTCT	412	61.26
GGTGGCTCTCGTCATCTCAT	375	56.25
AATCTTCCTTCTGTGTGTTATCTGTCT	6530	56.88
GTGCAGAGCCTCACAGGAGAG	30	58.78
CCTTGCCATCTCGATCAGAA	42	57.42
TAAGAGTGTTTCATTCCTTCATCGAA	235	58.02
TGATGACTCATCAGGATATGACG	1179	56.25
TTAGTTATATCAGCACCAGTTGCATT	152	57.24
TCATTACGACCAATACTAATCCAG	325	58.14
TCAATTGGTGGTTATGAATCTTCC	401	57.94
TTGATTGTTGCGGTCTCCAC	251	58.14
GCTGAGGAAGAGGAGTTCTTGCTT	3590	60.45
GCTGAGGAAGAGGAGTTCTTGCTT	2705	60.45
ACTCTGCCTTGTTGTCATCTCCT	1007	58.02
TTGCTGATTCTGCTTATGTATCTAC	87	56.97
TGAATTCAACAAGTCCTCTTCTACA	149	56.01

TGAATTCAACAAGTCCTTCTTCTACA	104	56.01
TGGATTGGCTAGGAGGCATA	1065	56.88
AACAATTCTACAACCTTCACAGCATGC	254	59.61
GTCATTAAGTATCATGCACTGC	77	56.04
CTCGTTGTGATGCCACTTGC	523	58.88
CTCGTTGTGATGCCACTTGC	523	58.88
CTCGTTGTGATGCCACTTGC	523	58.88
GGATATGCCACATTCCGAGTACA	216	59.69
GGATATGCCACATTCCGAGTACA	277	59.69
TAAGTGAAGATGGTTGAGAATAGATAGC	161	56.73
ATACTCGTTGGTGGAAGAAGGA	1155	56.47
AAGTGGACAGAAGGAAGTGACG	85	57.06
GCAAGAAGATTGAGAGAATGATGG	72	58.03
TTGCGCTAATGTCGAGAATGTG	76	59.86
GGAGAATGAGACCAAGAGACACG	1009	58.84
AGAGAATGCTACCGATTCTGGAG	333	57.69
CGGAGTTAAGAGTACGAATCAATGTTAG	809	58.84
AAGAGATGCGTCGTGTTGAGG	181	58.94
AAGAGATGCGTCGTGTTGAGG	110	58.94
ATCTCCACTTCCACCACCATC	132	57.34
AGCAACAGAATCCTCAGGCAGT	357	58.99
AGCAACAGAATCCTCAGGCAGT	359	58.99
AGCAACAGAATCCTCAGGCAGT	266	58.99
CACGACAATGGTCGGAACCTC	83	57.58
GACTATTACTGGCAAGACGAGAGAT	58	56.16
GATGTGACGACAATTAGATCAACG	87	57.32
CCACATCACGAGAAGAGCAAC	943	56.99
GCAGCGTTGGAACAATGTCT	352	57.41
GCAGCGTTGGAACAATGTCT	285	57.41
GGAGAGGAGAGCAGCATCGT	573	58.17
GCTCCACCTCACAATCTTCG	251	56.91
ACAAGAGTTAGCTTCGGACCAC	29	56.3
ATAACTGTGATGTCGCTACGGA	35	56.06
GCTTGTTAGCGGTGGACGAC	478	59.33
GCTTGTTAGCGGTGGACGAC	430	59.33
TTAGTTGTCCTTATCAATGCACATC	84	56.2
CGAGCCGAAGAAGGAGAGTG	3879	58.76
ATTCGGACAACCTATTGACGGA	963	57.24
ATTCGGACAACCTATTGACGGA	1000	57.24
GAGATAGCGGTGCCAGAAGG	15635	58.49
GAGATAGCGGTGCCAGAAGG	15635	58.49
CGAGCCGAAGAAGGAGAGTG	3879	58.76
CCTAACATCACTCTTCTCAACAACCG	55	61.13
CGAGTATTCTGGCGTTGGTT	1138	56.46

CGAGTATTCTGGCGTTGGTT	954	56.46
AAGTATCCACTTCGAAGCAAGTTGTTT	393	61.06
CTGATATGGCAATTATGGCTGA	1231	56.44
AAGATGTGTTGAGACCGATGTATG	791	56.81
AAGATGTGTTGAGACCGATGTATG	791	56.81
AAGATGTGTTGAGACCGATGTATG	800	56.81
CAAGAAGAAGACTGAGAACAAGAGAG	484	56.17
CAAGAAGAAGACTGAGAACAAGAGAG	491	56.17
CAAGAAGAAGACTGAGAACAAGAGAG	564	56.17
CAAGAAGAAGACTGAGAACAAGAGAG	498	56.17
TTGAACGAATCGCGAGATCA	156	58.94
AATCTTCGTCGGCACCATCT	135	58.2
ATTGGATGGCGGAGAGGTAG	22	57.68
CAAGCAACAATACAGGAATAATCAAC	4192	57.1
CAAGCAACAATACAGGAATAATCAAC	2143	57.1
CAAGCAACAATACAGGAATAATCAAC	1303	57.1
CAAGCAACAATACAGGAATAATCAAC	4333	57.1
CAAGCAACAATACAGGAATAATCAAC	3607	57.1
CAAGCAACAATACAGGAATAATCAAC	4264	57.1
CAAGCAACAATACAGGAATAATCAAC	1393	57.1
CAAGCAACAATACAGGAATAATCAAC	1224	57.1
CAAGCAACAATACAGGAATAATCAAC	4324	57.1
CAAGCAACAATACAGGAATAATCAAC	4396	57.1
CAAGCAACAATACAGGAATAATCAAC	2203	57.1
CAAGCAACAATACAGGAATAATCAAC	4252	57.1
GTTGGTTGCCACACCATCCA	82	61.18
ATGAAGCGTGTGAATAGATTATGC	55	56.28
CGGAATGCGATGTGAATGGT	550	60.3
CGGAATGCGATGTGAATGGT	550	60.3
CGGAATGCGATGTGAATGGT	550	60.3
CGGAATGCGATGTGAATGGT	550	60.3
CGGAATGCGATGTGAATGGT	550	60.3
TTCTCGCATGTGATTATGATGC	497	57.35
TTCAGAGAAGAAGGTCATGATATACTG	398	56.15
CCAGATTGCCGTTGACACTT	876	57.26
CATCGCGGAGTCGAAGTTAACC	288	61.73
AGAAGTATGAGAACAATGCCAGAAG	1522	56.94
TGACCAAGTCACGGAATCAAC	525	57.09
GTATTCTACCAAGCAAGATATGTTTCG	344	56.49
GCGTGGCAATGGACTATATTCC	126	59.31
GCGTGGCAATGGACTATATTCC	126	59.31
GCTTGTAGCTCTTGATTATATTCCG	78	56.67
CAGTTGAGAACAGAAGCAGATGAG	2324	57.06
GGCATCTTGTGACTGACTATGTGA	523	57.87

ATGTACGCAGGAGATCATACAGGTG	2189	60.25
TTCACTTCACAACCTGCTAACATTCAAG	806	59.75
TGGAGGACAATGTGTGGATACC	490	58.23
TGGAGGACAATGTGTGGATACC	298	58.23
CCGTGAAGTTATGAAGAAGAGACTGAAG	849	60.86
ATCTCGGACTGCCTGTGGTA	104	56.79
CGTAAGGAGGAGCCACCACA	110	59.69
CGACGATTATGCCGATTAATGAAG	174	60.57
CGACGATTATGCCGATTAATGAAG	455	60.57
CGTAAGGAGGAGCCACCACA	41	59.69
TCTGAATGGAATGGCTTGATG	173	57.22
TCTGAATGGAATGGCTTGATG	361	57.22
TGTTGGAATGGAAGGAGGAA	679	56.62
CGTCTGGACAATAGCCACACT	413	56.42
ATGATAGAAGATATGAAGTGACTGGTGA	196	57.52
ATGCTGGTGCCTGTTGGAGT	911	59.17
ATGCTGGTGCCTGTTGGAGT	725	59.17
TGCTCTTCAATCTCTCAACTTCAATC	278	59.08
GATGGAGACGAAGAGATGTGACC	257	58.66
CACGCCGAAGATTGACGAGA	148	60.88
CACGCCGAAGATTGACGAGA	148	60.88
CACGCCGAAGATTGACGAGA	148	60.88
CACGCCGAAGATTGACGAGA	259	60.88
CACGCCGAAGATTGACGAGA	259	60.88
CACGCCGAAGATTGACGAGA	259	60.88
AACAGAATCAATGGCAACCGA	911	59.02
AACCTCTGGTCATTATTATATTCTGCA	665	57.5
TTGGCAGACACTGACTTCGC	703	58.6
GCCAGTGTAATTATAGCCAATAAGC	265	56.54
GGCAGAGCATCGTTGTGGTT	687	59.7
ATGAGGAAGGCGATGCAGAT	383	58.3
TTCTGATTCCTGTGCTCCTACA	63	56.18
TGGAATGGTGAAGATTACTTATTGC	222	57.41
CTCAGTGATGTAAGTTATTCAGTGGTT	3574	56.03
TTACATTCACTGGCAGACACTAACAG	727	58.49
TTCTTCTCGTATTGCTAGATGCTTC	65	57.23
ATACACGCAAGGCTAACGAAGAG	153	58.65
TCTGCGTGAGGATCGAGATAC	408	56.56
CAGGATATGATCTCAGTGGACTTCTTCA	395	61.81
TCACGCGTCGCTGACTCACT	200	61.73
GACACCTCCAGTTGCTTGCT	649	56.56
CCAGTGGACAGCTACGAGATG	107	57.02
CCAGTGGACAGCTACGAGATG	357	57.02
TATCCATTCCATCCTGTTCCA	466	56.4

TATCCATTCCATCCTGTTCCA	514	56.4
AGCACTTGACACCACCGATT	822	56.69
AGCACTTGACACCACCGATT	95	56.69
AGCACTTGACACCACCGATT	313	56.69
AGCACTTGACACCACCGATT	864	56.69
GATCACCTCCATTCTCAAGTACCG	393	59.84
AGCACTTGACACCACCGATT	95	56.69
TGGTGGAGAGATCTGGACGA	101	57.73
AACAGAGTGGAGAAGTCTTGGAAT	180	56.31
CCAACCTCCTCTAAGGATTATTCTTC	253	57.97
CAAGAAGACGATGGCTGGTG	1317	57.89
ATGTCCTCATTCCATGCTCAG	355	56.25
GCAATACATCACAAGAGGCTTCAATC	554	61.07
TCGTATCCAAGTTGTAGTACAGTGTCG	763	59.55
AATCGCCTTGAATCCAGCAA	326	59.24
AACACTCTTCAAGCAATGTCCGA	119	59.75
TTCTCTGTTGCTCAGATCTACAATG	110	56.57
TTCCACATCTACACCGACATCA	113	57.54
TGAAGCACAGGAAGAGTTGGT	188	56.1
CGAGATGAGAATGAAGGAGAGC	423	56.86
GTGGCTGAGAATGACTTGGC	920	56.91
GTGGCTGAGAATGACTTGGC	688	56.91
ATCAGTCCAGGCGACGAAGA	103	59.39
CGATCAAGCAGAGGTTCCGT	810	58.88
GCTACCGTACTCAGTGGATACCTAC	752	56.35
CGCTAGTCGTGGAATTGTGAG	160	57.12
TCTCTTGTAGCGGTGGATGTG	480	57.43
TCTCTTGTAGCGGTGGATGTG	405	57.43
TCTCTTGTAGCGGTGGATGTG	437	57.43
CCTCAGGATGATGCCTTCAAC	44	58.19
ACTATTCCAAGTACCACCATCTC	137	56.43
CCTCAGGATGATGCCTTCAAC	44	58.19
TCGTATGCTGGATGTGAATGG	1229	58.04
CCAAGATATGAGCTACCAACGAA	907	57.12
CTTGTTCTGTCTGGATCTGC	526	59.7
GGCGACCACTTCTAACTTGATAG	186	59.25
GCAGATATTGGTCTATACTCAGAGTACC	205	56.2
CTCTGAAGCATCTCTATTCGGAA	76	56.56
GCAGATATTGGTCTATACTCAGAGTACC	310	56.2
CAAGATAGCTCCTCAAGCTTCTCA	719	58.12
GTTACTGCAACAACATATATTCTGTCTG	31	57.18
AAGAGAGAAGAAGCGAGGATGAGA	152	58.91
GCATGAATACCATGCCACCA	76	58.8
CCGACATTAATTGTCAGTGATGA	58	56.29

TCGGATGATTCGGATCTCTC	71	56.22
GCAAGCACAAGAAGCAACTCC	252	58.72
TCGTGGTGGTGACTGGTTCG	824	61.53
TGGTTGGTTGCCTAGTTGTGT	21	56.73
ATAGCCAATCCAGCCGAAGA	73	58.35
ATAGCCAATCCAGCCGAAGA	92	58.35
AACGGAGAAGGAGGACGGAGA	436	61.04
TGATCCGACACTCAACTCTCC	874	56.31
AAGGAATAGCCAAGACTTCACAGC	824	58.98
ATTCATCATACGCTTCAACCACT	127	56.47
CAACAACGCTTATTGCTTCAGAT	1172	57.3
CAACAACGCTTATTGCTTCAGAT	1172	57.3
CGGCTATTGAACCACTCATTGC	905	60.44
AATTCACCTAGCAACCGGACAA	718	57.43
GCCAGTGATGCTTGAGGTTG	238	57.89
TTATGTGAACAGTGTCTGAAGGATC	297	57.48
GGATTATCAAGAGCCTGACAGATG	319	57.92
GGATTATCAAGAGCCTGACAGATG	319	57.92
AACGATTGACGACGACGGACT	774	60.5
GCACTGTTGTGCTCTAATGTG	463	56.05
AACGATTGACGACGACGGACT	622	60.5
ATGCTGCTACTTCCGACAACA	1148	57.12
GCCGCTACTACGCAAGAGGA	134	59.21
GATGGAGCATATCTGTAGGAAGGT	78	56.58
TCTTGCGATGCAGACTCTTGA	180	58.34
CAATTCTTGCACTTCACTCTTCTACC	140	57.28
ATCATATTGTGGTGCCTCTCG	48	56.25
ACCACCAAGTTATGAAGAAGCC	527	56.06
CGTGTTCAATCGGAGCCTAA	886	57.44
TTCATTCACCTATTGGAGTTGTCATC	303	56.05
GCGATTATGCTCCATAGCTTCA	108	58.12
GCGATTATGCTCCATAGCTTCA	108	58.12
GATTGGTATGGAAGATGGAAGATTAGC	541	60.32
ATGAGAAGCAGAAGACTGTAACAACCA	349	60.5
TGCTGTCATCATTCTCTGTGTCC	1730	58.8
TGCTGTCATCATTCTCTGTGTCC	1736	58.8
TGCTGTCATCATTCTCTGTGTCC	1616	58.8
TGCTGTCATCATTCTCTGTGTCC	1616	58.8
GAGTCGAGCAACGTCACCAA	52	58.45
AATCACAAGTGATATGTCCGAAGA	177	56.46
AACACTCCTCTTCTAGCACATGC	1199	56.45
TAATACAGAACAGCCGAATCCAG	132	57.12
ATTATGCTGCCTGCCGTGAT	187	59.15
CAGGAAGTATGGAAGATGAGTGG	163	56.49

CAGGAAGTATGGAAGATGAGTGG	163	56.49
CAGGAAGTATGGAAGATGAGTGG	228	56.49
CAGGAAGTATGGAAGATGAGTGG	163	56.49
CAGGAAGTATGGAAGATGAGTGG	163	56.49
TTCTTCATCCGCTGCATCTATC	150	58.04
AATCCATCCAGAAGCGACCT	82	57.27
GGCAACAGCAAGGCGAGAAG	78	61.89
GAGTTCAGTTCATAGTGGAACGATCA	623	59.55
TAGTGTTGAAGAGGCTGTTATGAGG	540	57.75
AATCGTCTTCTCTCCAGTCTTGTC	527	56.85
AATCGTCTTCTCTCCAGTCTTGTC	623	56.85
AATCGTCTTCTCTCCAGTCTTGTC	86	56.85
AATCGTCTTCTCTCCAGTCTTGTC	74	56.85
AATCGTCTTCTCTCCAGTCTTGTC	623	56.85
TCTCAGGAACCATCAACATCATC	4862	57.58
CAGATCAATTAGCAAGAAGAAGAGG	692	56.75
CCGATGGACTTATTATGCTTCTTG	1366	57.94
CCGATGGACTTATTATGCTTCTTG	1617	57.94
GAAGAGAATGACAGTTGTTGCTGGATA	1794	60.78
TGGCACCAGAGAGACTGTGTT	287	56.95
TCCAGCGTTGATTGTTCCAT	401	57.6
AATAGTCCTGCGAAGATCTAAGGTC	84	57.36
GCTTGACGGTTAATGTGAATATCAG	1173	57.87
ATCCATTACATCCAGCACATCC	461	57.35
ATCCATTACATCCAGCACATCC	475	57.35
CCTTGTTGATTAGCCAGCAGCA	315	61.2
CCTTGTTGATTAGCCAGCAGCA	152	61.2
AGTGATCCATACAGCACCAGCAT	85	59.5
TGGTTCTATCAGCTGTCGCA	355	56.61
CGTCTTCGCTGATGGATTCTG	124	60.31
TGCACGAATGGCTGATCGAG	86	61.84
TAGTTGTGTAGTGCTCATAATTCTCCAT	70	57.65
ATGCTCCTACACTCACGCCAA	2020	59.34
CTGAGCAACTGAGCGATTCC	74	57.23
TGCTCAGAGAATGAGAATTCAGAAGA	713	59.63
TCCTTGGAGATTATTGTATCGTTG	1399	56.13
GACAAGATGCCAATGCGGAA	36	60.55
GACAAGATGCCAATGCGGAA	147	60.55
CGTTGGCTCAGGAAGTGGAT	404	58.73
CGTTGGCTCAGGAAGTGGAT	386	58.73
ATCTCATGGATGGACTTCTGTCTT	756	56.91
AGATGACTGTGTTCTTCTCGCA	162	56.27
GCTCACAACTTCAACTCCAA	203	56.51
CGACCATCTGTCCATCTTATGG	42	58

ATCATTCTCATTCTGCTGGACA	93	60.45
CCATTGGACATGGAACAACCTC	99	57.88
CTTCACAGCCACCTACCACAA	419	57.34
TTGGAACAACCTCAGTCTAGTTCACC	190	57.58
TTGCATATGTGAATTCAACCAGA	843	56.82
TTGTTTCGTTCCGTTTCATCATG	840	58.07
GCCTGCTCACACCTGCTCAA	919	61.1
GCCTGCTCACACCTGCTCAA	1092	61.1
GCCTGCTCACACCTGCTCAA	919	61.1
GCCTGCTCACACCTGCTCAA	1092	61.1
GCCTGCTCACACCTGCTCAA	798	61.1
GCCTGCTCACACCTGCTCAA	896	61.1
ATTGGACGAAGACGACGAAG	39	56.46
ATTGGACGAAGACGACGAAG	87	56.46
AAGAGCGGATTGTTGACCAC	859	56.3
AAGAGCGGATTGTTGACCAC	859	56.3
AAGAGCGGATTGTTGACCAC	859	56.3
CTGCTATCGACAACCTACTTACAACCTCA	44	58.34
AAGCCGTAGCGTTGGAAGAC	189	58.08
AAGAAGAGTTGCATCTCTATTGGC	1257	57
AAGAAGAGTTGCATCTCTATTGGC	1353	57
AAGAAGAGTTGCATCTCTATTGGC	1257	57
AAGAAGAGTTGCATCTCTATTGGC	1353	57
TTGGCGATGAGTGTGAACAG	407	56.82
GATAGTCTTCAAGAATGTGCATCAAC	230	57.16
CACAAGCATGTTATGAAGAGTGTCT	248	56.37
AATAAGAAGGTCGGAGGAGAGTTG	2821	58.05
AATAAGAAGGTCGGAGGAGAGTTG	2671	58.05
CTCACCTCACCTCACCAGTCG	390	59.32
TCAGAAGCAAGCCGAATACG	938	57.74
CGTCTTCTGTGATCTGGCTCA	135	57.62
TACTTGCGACACGACCAGA	57	56.52
ATTGGAAGAGGAGCCGAAGA	962	57.54
ATTGGAAGAGGAGCCGAAGA	742	57.54
ATTGGAAGAGGAGCCGAAGA	876	57.54
AGCAGTCCGATTCTGAATTGG	512	58.73
CTCGGTGGCTTGGCTGCTAC	38	61.78
CATCGCCGTTGTCTTCAGGA	49	60.74
AAGGATCGTCTTGCTTCGTTG	269	58.06
GAGGCGTCAAGTGGAGAGAG	44	56.2
GAATGATATGGATTCTTCTAATGCTG	335	56.44
ACTGGAGATGTGATGACTATGGC	644	56.78
TGCCGCAAGTCACACCAACT	103	61.25
AATACTGGTCTCCTCTTGTGCTCA	549	58.09

AATACTGGTCTCCTCTTGCTCA	518	58.09
GTGACAACACTTGGTTCCGTT	270	56.13
AAGCGACAATTGAACTACCGA	430	56.17
TCAACACAATGGCGTGGAGA	37	59.66
CGACACACACGAACGAACAC	335	57.15
GGACTGATTCAAGTTCCTACGAA	367	56.19
ATCAACGAGGAGGATCTCATATGTGAA	92	62
AAGCGGAAGTTGAACTCAGAGG	857	58.64
GGACTATCATTGTGTTCAGCCA	877	56.3
GGACTATCATTGTGTTCAGCCA	713	56.3
GGACTATCATTGTGTTCAGCCA	855	56.3
GGACTATCATTGTGTTCAGCCA	713	56.3
GGACTATCATTGTGTTCAGCCA	877	56.3
GGACTATCATTGTGTTCAGCCA	877	56.3
GGACTATCATTGTGTTCAGCCA	713	56.3
GGACTATCATTGTGTTCAGCCA	877	56.3
GGACTATCATTGTGTTCAGCCA	713	56.3
GGACTATCATTGTGTTCAGCCA	738	56.3
GGACTATCATTGTGTTCAGCCA	738	56.3
GGACTATCATTGTGTTCAGCCA	738	56.3
GGACTATCATTGTGTTCAGCCA	738	56.3
GGACTATCATTGTGTTCAGCCA	792	56.3
GGACTATCATTGTGTTCAGCCA	792	56.3
GGACTATCATTGTGTTCAGCCA	792	56.3
GGACTATCATTGTGTTCAGCCA	792	56.3
CGACGAGAAGGAAGATGTGAC	39	56.03
CGCAGGACCTCCGATGTCTC	99	61.68
GGACAGTATTGAGGAAGCCATT	1916	56
CATCTCAATCGCTTCCATCC	62	56.73
TCAATGATTATGAGCACCGTTGT	49	58.12
ACGACTCGCTGGAGTCAATG	129	57.48
AAGTAATTCTTCTCGTCAATGTTGC	225	56.9
GTTACAGCGAGACTGATTGAG	926	56.27
CGTCACCAAGTTCAAGATAATGTC	2691	56.52
CAAGACAAGATGTGTATGGAAGGA	573	56.93
CAAGACAAGATGTGTATGGAAGGA	384	56.93
AGAGGTCTACATGATAGGTGTATGCTG	329	57.98
CTATATGTATCACGGAAGTTATGAACCA	226	57.76
CTACCACTACCAACCGCCTCCA	196	60.86
GTTAATGAGTAGGAACAGTTAAGTGGCA	63	59.14
ATGATCGCCACATTCTGAGTTC	71	57.74
TGCTCGGTTGCCTACACAGT	2832	57.98
TGCTCGGTTGCCTACACAGT	845	57.98
TGCTCGGTTGCCTACACAGT	439	57.98

CGAACAACGAGCAACAGGAT	24	57.41
TGACAACAAGTGTGGAAGAGGA	1194	56.89
TGACAACAAGTGTGGAAGAGGA	1018	56.89
TGACAACAAGTGTGGAAGAGGA	1439	56.89
AGGAGTCATTGCTATTACATCAGTCA	1127	57.19
TGTAGTAACTGTGCTGATTCAATTGC	906	57.24
AGCAATGAGCTAGACGCTTCCT	1122	58.45
GATGGTGCCGAAGGAGGAAT	507	59.86
TCTCAACACAACAGATGACGAAC	558	56.45
TTCGGATCCAATTCAAGCAA	136	57.75
GGCGGTGTGTTCAATTCTATG	1240	56.82
GGCGGTGTGTTCAATTCTATG	1167	56.82
CGATGAAGTTGTCTTGGTTGG	1046	56.79
TTCTCATCTCCATACAACATTCAAC	757	56.05
TTCTCATCTCCATACAACATTCAAC	551	56.05
GCTCTGATGTCGGATTGTTCG	756	59.28
GCTCTGATGTCGGATTGTTCG	697	59.28
GCTCTGATGTCGGATTGTTCG	756	59.28
GCTCTGATGTCGGATTGTTCG	697	59.28
GCCACTCCGCACACTAGAAGG	99	60.76
TGCCGACTACACCTACTCCAG	1565	56.58
CCGACTACACCTACTCCAGTTCCA	1494	60.37
CCACCTCACCAGAGAATATCACC	316	58.45
CTATGCTCTTAGTTCTTACTGCTGTCG	1325	58.21
CTATGCTCTTAGTTCTTACTGCTGTCG	1228	58.21
GCGTTGTTAGCCGTTGTTTCG	353	60.25
AAGATGCTTGGAGCTGAGTGG	395	58.15
AACTCTCTTGTGGCTCGCTCA	289	58.82
CCAATGTGTCATGGCACCAC	73	59.23
ATTCATATAATGACGACTACGATGGA	165	56.89
TATCACCATGCGACTAGATATGTTC	249	56.16
CTGATGAGAGTTGGAGTTCACTACA	971	56.38
GAATCAGCAACAACCTCAAGAATG	333	56.77
CCACCGTCAAGCTGAATTGG	388	60.06
GCAACAAGCCGATCACGTAC	392	57.84
ATTGGAAGCGACGAGGATTG	179	58.73
AACTTCCTAATCACTACCTCATCAGAC	80	56.47
TATGAGACGGTCTATAACAAGTCACG	380	57.6
TGCAAGCATCCGTTCCCTTAC	810	57.44
CCGGAGTATCTTGACCAGA	1146	57.35
TGCAAGCATCCGTTCCCTTAC	810	57.44
GAAGTTGCTGAAGTTGAGAAGGTC	929	57.4
CACCAGTTGTTCTCAGCCGAT	22	58.8
AAGGAGAGTGTTATTCAGATGTGGA	218	57.07

CTGCCACGACGACACCTACC	1582	60.14
CTGCCACGACGACACCTACC	2148	60.14
CTGCCACGACGACACCTACC	1409	60.14
CTGCCACGACGACACCTACC	1526	60.14
CTGCCACGACGACACCTACC	1464	60.14
CTGCCACGACGACACCTACC	1430	60.14
GAGTCATCCATGTAACCTATATGATCCA	489	57.64
CGGAATGGATGATCGGTGAC	70	59.71
TACTGGTCGACTTACTTGCTTG	122	57.28
TTGTGAATCTGAGAAGTTAGCGAA	338	57.05
TTCCATCGTTATACAATAACAATATCTGC	104	57.77
GCACAGAGCTTCTCAGATTCTG	104	56.5
GCACAGAGCTTCTCAGATTCTG	103	56.5
GATCTACTATGGAATGAATGTTAATGCG	1222	59.26
TTGAATGATATTAATAAGGCAATGAGG	179	57.81
TTGTCTCTGAGCAATGGCAA	768	56.58
GATAGTCACAACCTCCGAGAATATCGA	305	59.87
GAAGTGTAACACCGTGGTTGGA	721	58.47
GGCGGAAGTTACTACCACTATGC	520	57.94
GGCGGAAGTTACTACCACTATGC	600	57.94
AATCTGTGGCCGTCTTGAG	487	58.73
TTCTGCGTGCTGAATCTCAA	451	56.74
CCAAGCTGCTGCCACTAAGG	253	59.6
CCAACCAGCACCGATAGCAA	2900	60.59
CCAACCAGCACCGATAGCAA	2904	60.59
CCAACCAGCACCGATAGCAA	2904	60.59
CCAACCAGCACCGATAGCAA	732	60.59
AGTTGCTCTGCCTACCGCTT	1144	57.84
TTGATTGTGTCAGGCGTCAT	146	56.11
TGAAGCGAGAGTATGGCGAT	519	57.14
CGATCCAATTCTCCATCGCA	219	60.51
TTGGCTTGTGACTGTGGAGA	442	56.35
CATCGGAATTGAGTCGCAGA	295	58.39
AATGCCTGTTGGCTGTGGAG	57	59.69
TTGGATACATTGAGACAACAAGGTC	750	58.11
AAGGTAGCGATGATTCCACGAC	1599	59.09
AAGGTAGCGATGATTCCACGAC	2242	59.09
AAGGTAGCGATGATTCCACGAC	1512	59.09
AAGGTAGCGATGATTCCACGAC	2212	59.09
AAGGTAGCGATGATTCCACGAC	1599	59.09
AAGGTAGCGATGATTCCACGAC	2242	59.09
AAGGTAGCGATGATTCCACGAC	1512	59.09
CGATAATTCGACGAAGCTGAG	81	56.41
TGGTGTTATCACGGCACAAG	375	56.65

CTCATCACGACTCGCCAGAG	34	58.14
ATGGAAGACTGTAAGACTGGATGG	888	57.35
GTTAGTAATTGTCTTGATGGTAATGACG	287	57.48
AACCAGTACTTGTTGTTACGGATATTCC	745	59.83
TTGATTGATGCTCCACTGATTCTC	739	59.2
CCGAATTCTCATCGACATGC	425	57.7
GTTGGTGGCGTTCTTGGTGT	1006	59.45
ATTGTTCAAGCAGCCTTCCTATC	188	56.29
AATCTTGGTGTGTTAATTGGATACTTC	565	56.97
TTGTCTACTGCAACTATGTTCTGTCA	312	56.94
ATCGGCAATGGATGACATTATCAC	96	60.72
GGTGTAAATGGCTCACGCAAT	518	57.17
GAGTCACTGTCAAGTCTTGGTGGA	876	59.28
AAGCGAGTCTATTCGCGCATA	730	58.75
TTGTGATCGGAATTGTTGGAA	76	57.52
GTCTATTCGCAAGCTGCTCAA	276	57.04
TTCTTCTTCATTGCTTCGCTTC	1510	57.52
AACCTTATTCCATTCCATCGG	916	56.56
TGAAGTGGTTACCGCAGCCA	1102	61.16
AAGAGAGTGGTGCTGATGACG	1694	56.58
GGTCGTTACAGAGCACGCCAT	482	61.01
CGACACGCTTCCAATTCATC	177	57.41
AATCACCAACAACAAGAACGACT	35	56.46
AATTGAATGTAGTCTTGTTATGATGTCA	2005	56.29
GGTGCCAGAGGATTATGAAGAG	240	56.55
TCCTGAAGATGAACGTAGCGA	295	57.18
CCTAGCACAGTCAGCGTTCC	157	57.16
CCTAGCACAGTCAGCGTTCC	184	57.16
GCACGCACACACACTCATACATC	51	60.08
AAGAAGTTAATGCTGCAGTTGCT	226	56.31
CATTCTTCGGCATAGTCGGA	334	57.38
CCGATGAAGACGAACCAACA	446	58.14
CCGATGAAGACGAACCAACA	458	58.14
CCGATGAAGACGAACCAACA	503	58.14
CCGATGAAGACGAACCAACA	612	58.14
CCGATGAAGACGAACCAACA	492	58.14
GCTGATAATTGTGATGAGGAGTGC	58	58.77
GTATTCAGATCATACACGTACACAACC	72	56.84
CGGACTCAACGAATCGCAGA	395	60.88
CGGACTCAACGAATCGCAGA	452	60.88
TGTGATGGATGTGATGAAGAATACAC	945	58.79
GCGAGAAGCATCTCTCAAGAAC	51	57.06
TTGAAGTCGTCGCCATCGTT	351	60.21
CCTGACCACTGCTTGCGACT	522	60.02

GCACTGATAGCACAATGGACAC	1323	56.83
GCGATGGAAGAAGTTGAAGC	1391	56.23
GGAATACACAGACGACGCAAG	1349	56.97
TTATCAGCATCAGTTGGCACA	1122	56.42
AGGATTACACGACGCTTCTGA	626	56.19
GATTACCGACGTATTCCGCACA	499	60.67
AGGAGGAGGAACGAAGGATG	231	56.85
CCGGAGGATAAGAAGCACGT	93	57.88
GCGATGACATATCAATGCCTGT	59	58.54
GCGATGACATATCAATGCCTGT	108	58.54
CAGCGGTGATGAAGTTGAAGC	524	59.46
GACATGGACAATTCATGCGTT	1907	57
CATCTTGTCGGTCCATCGTT	323	57.04
GCTCTTATGACTGAAGAACGACTTG	268	57.52
AACAGTTATTGTGTTGGCAATGACTTG	698	61.23
TACTATGTGAACAAGAACTGGTTAGCA	1033	57.38
CTGAACGCAGAGCTGACGAA	1328	58.9
GCTCTACAACCTCGTATCCGACATTC	199	59.22
GCTCTACAACCTCGTATCCGACATTC	199	59.22
GGAATTCAGGATGATGGAAGTATG	324	57.54
AATGCCACTGAATGTGTCAAGA	41	56.8
AATCGTATTCTGGAGATGGTGTTT	466	57.24
TTCTCAGTGCTGTACTCGGACTAG	217	56.68
CTTGCAAGGAGTTGACGGACA	170	58.45
TACCAACATCAACTCCAACCTACCA	87	57.24
TTAATGACGCTGAGGCATCG	630	58.47
GGTGGATGCTTCTGATAGTGACG	491	59.61
CTGATGATGACACCGACTTGG	337	57.59
AAGATCGAGATGGTAGACGAGATACTC	414	58.49
TGAGGCGGAGATTATTCACG	224	57.38
TCGCTCAAGAAGCCAAGAGG	242	59.28
TCACATTATGACACACATTCAGCAT	757	58.06
TCACATTATGACACACATTCAGCAT	757	58.06
CCACTGTTGAGTCAGTTGAGCA	428	57.6
CCACTGTTGAGTCAGTTGAGCA	443	57.6
GAAGACTCGATGGCAGAAGGATT	134	59.69
AGAGCAGCGACACAGAAGAAGT	279	57.11
AATCTGGAACATGGATCACATGA	380	57.84
GCAAGTAGCGTGTCTAGATTATCG	984	59.37
TTCTACTTACTGATTGGCGTCTTG	1829	56.55
ATGTGCTCTATGCCGCTGAA	2721	58.08
ATGTGCTCTATGCCGCTGAA	2811	58.08
GGCGAACACAGACCAAGAAG	427	56.98
CGCTAACATTGTCACCAAGATTCTC	113	60

TTATAACGCGGAGATTGAGAGC	3699	57.32
GCCTTCGGAGCCTACACCTT	87	59.31
ACGGAGCCATATCTGCGTCT	34	58.37
GAACCTGAGGCAAGCAATGTACG	94	59.78
CCACTTCAACACAACGACGGA	100	60.54
CTCCAAGCCAGTTCGCAGTT	1723	59.07
CAGTTGTTGCGTCGACATCA	24	57.85
GCAACACAACCAGCAGCAAG	791	59.08
GCAACACAACCAGCAGCAAG	794	59.08
ATGCCTTGACTCGGTGGATT	1171	58.06
ATGCCTTGACTCGGTGGATT	1171	58.06
CGTCGGAATCATCGTCAACA	240	59.08
CGTCGGAATCATCGTCAACA	476	59.08
GACCGCTTGTTGTTCTCGTG	1732	57.95
GCCGTAGCAGAAGATGGTGT	257	56.49
TCAGTTACACTATCTCATGAAGATGCGA	731	61.2
TTGCTCGTGTTCTGATTGAGTT	444	56.24
AACCTCTGCTCTGAAGAATCTGA	1091	56.1
AACCTCTGCTCTGAAGAATCTGA	1091	56.1
AACCTCTGCTCTGAAGAATCTGA	1091	56.1
GCAAGGAGACGTGGACTATCTTCT	60	58.95
AATGCTCCGAATGCTTGTGT	5266	56.89
AATGCTCCGAATGCTTGTGT	5218	56.89
GCTCATGCTCTTCCGTTGGC	150	61.76
ATGATGAACGATTGCCGACT	297	56.67
TCCTCATACCAGTACCATGCTTCG	115	61.14
GAGTGTGCTCCGAGAGTTGC	189	57.19
CCATCCGTGAATATCCATCG	1267	57.3
CCATCCGTGAATATCCATCG	1305	57.3
GGATTCAATGTGGATGGAGTG	1421	56.34
GATATTCCGCAATGAGCACCA	1369	59.51
CATATGTTCAATGCGTTCATGG	280	57.52
CTTGGAAGAGGAATTGACG	1324	57.02
AGATTGGATCACGTCGTTGTGC	430	60.88
GTCCAACAACCACAGCAACA	664	56.56
CAGCAGAACCAGCAACAGAA	928	56.22
CGGATACTGTAATAGTGACCAAGTTG	238	57.09
GGTGCTGTCCTGATTCTGATGT	226	57.72
GTCGGATCAGCAAGACAGTCA	758	57.46
TACAACGGAGGTGAACGGAA	109	57.66
CACTACTATGATTACTGCTGGAGGAT	164	56.05
GTCCTAGTGTGCCTTCCAATGAC	130	58.64
ATTACACTGGTGGAAGAGGACACTG	1313	59.46
CTGATAGATATTGACGAGAGGTTGG	928	57.13

AACAAGCAATCTTAGTGATTCTTCGGA	258	60.61
CGTTGAATCAGAATACATGCTCA	223	56.58
TTGTGGCTCAGTCGTTGCTA	619	60.52
GCGGCATTGAGAAGAAGCAG	342	59.68
AGATGTGCGATAATGAAGACTGG	180	57.02
CTCTGAACGCGGAGCCTAAG	425	58.82
GCCGAGAAGTGGAGATGAGA	295	56.56
ATGGATACATCATTGAGGATCAAGAGA	244	60.03
GCGTGGTTGAGAGTGGTAGTG	37	56.93
AAGAGAGATTGAGTGAGGTAGAGGCA	50	59.9
TGCCAATCTTGATAAGGAGTACG	265	57.12
TGCCAATCTTGATAAGGAGTACG	293	57.12
TGCCAATCTTGATAAGGAGTACG	265	57.12
TGCCAATCTTGATAAGGAGTACG	293	57.12
TAACCGCTCTCACCTTCGTCT	59	57.69
CGTCTGAACCGTCTGTAAGCC	124	58.46
ATGAGTCAATGAGCCGAGCA	67	57.99
AACATGTCGTTGCTCTTCG	80	57.57
TTCAATTGAATTCAGGATTACGAA	51	56.59
TTGACACCTCGGTCGGAGTC	40	59.66
ACTGAATCGTCGAACCGCAT	80	59.15
TTCTGTGTTCTTCTGGATTCTTATGC	650	58.89
AACGTCTTCACCGCTCCAGT	98	58.4
CAAGCAACTGAGTGACGGAA	650	56.06
CAAGCAACTGAGTGACGGAA	578	56.06
CGACAGTTGGTGGAAGGATT	185	56.15
CGACAGTTGGTGGAAGGATT	185	56.15
ATTATGGCGTTCTCCGTGGT	245	58
ATTATGGCGTTCTCCGTGGT	245	58
TTCTGTTCAATAGAGATGTGGTCAA	75	56.65
AAGTGACATGACCAGTCGCA	85	61.26
TTCCACGGCTACATACGCATC	29	59.57
TTACTCCTCGTTGTTACACTCTGTCG	95	59.75
TCATCGGCTCAACAGACAACA	154	58.87
GCAGTCATCGGCTCAACAGA	153	58.55
GCCCACTACTATGTCCGACGA	28	58.73
GCCCACTACTATGTCCGACGA	89	58.73
ACTTCCGTGAGCGTCGTTCC	3414	61.15
GCCCACTACTATGTCCGACGA	28	58.73
GCCCACTACTATGTCCGACGA	89	58.73
GATTCCTAGATGGCGTCGTAGA	2523	57.1
GTCATCATGGAAGGCTTGAACA	748	58.63
CCACAGGAGAGTGAGAGCTAG	533	56.91
AGTGAACATTGCTGGCAGTGA	63	57.96

CCATTCACCGCAGGAGGATT	952	60.78
GAACAGGAACACCGTCAAGG	126	56.66
CCGCAAGAACACATTCTACTCA	1311	56.67
CCGCAAGAACACATTCTACTCA	1436	56.67
TTGAGTAGCCACCATAGACAGAGC	444	58.6
TTGAGTAGCCACCATAGACAGAGC	324	58.6
TTGAGTAGCCACCATAGACAGAGC	561	58.6
CTGATGATTGTAACAGAATATCGGAA	935	57.42
CTGATGGAGATGCTGCTGGAC	721	59.4
TATTCCAGTTACCGCCACGA	272	57.71
GAAGGTTCAGTACGAATCAATGGCT	664	60.64
TTGTCGCTGTGTTGATACCG	190	56.81
TTGTCGCTGTGTTGATACCG	180	56.81
TTCGGAAGCTGATGAAGAGTCA	115	58.66
GTGGATAACATTGTGACATTCTACG	1297	56.39
TGTGCTCGTTATCCATATTCTCT	41	56.53
GCACCAACGAGAATTGACAAG	979	56.94
AAGGATTGGTAGTCCGAGACG	52	56.9
TGCGGTGAACACTCCTGCTA	65	59.03
ACGCATCAACAGTATCCGCAA	150	60.1
GCAAGGAACGGATAACTATGTGGT	1086	59.3
ATTCTCCATACAGCATTCCAGTTC	70	57.38
ATTCTCCATACAGCATTCCAGTTC	70	57.38
ATTCTCCATACAGCATTCCAGTTC	70	57.38
ATTGAGTTGGATCTTGATGGCGAT	51	61.75
TACTACCTCCACCGAACTGCTT	159	56.7
TACTACCTCCACCGAACTGCTT	148	56.7
AACCAACAAGATCATATTCACAGTG	600	56.01
TGAGGCGTTCAGATCGATTG	548	58.39
AGCTACGTGAGAAGCGACCA	58	57.32
CAACAACAACGACGCTCCAC	136	58.78
CAACAACAACGACGCTCCAC	136	58.78
CGGTCGTCTTCGGTGTCTTC	949	59.28
ATTAGCGGAATCGTCGTTCTC	387	57.08
GTTGAGAGGAATGAGTTCGATGATAG	187	58.4
ATTAGAAGAAGAAGTGCTCCGTCA	1230	57.45
GAAGGAGAAGTGACCGAGGAG	135	56.65
CGTTGCTGACTTACTTATTCTTCG	106	56.31
AAGTCGGTGTTCTGTAGCAAGC	981	58.14
TCTGGCAATAGATTAAGGTAATCGGAA	75	61.11
TCTCGGCGTTGATTGTAATTGC	501	60.9
GTTGAGCAGAAGCCTCTTATTGG	1466	58.22
GTTGAGCAGAAGCCTCTTATTGG	1466	58.22
CATCATTCATCGGAGCACCA	1010	59.04

CATCATTCATCGGAGCACCA	549	59.04
CATCATTCATCGGAGCACCA	963	59.04
AAGGCATTGCAGCATGTTACTG	124	58.9
GGTTGACAAGCAGTGGACAGC	212	59.35
CTTCTCTAACACTGGATGTTTCATATTCG	863	59.5
CTCACTGACAGAACCAACGTCTAC	96	56.72
ATGCTGCTGCTGCTTCACCA	208	61.64
ATGGAGATCTGAACATGGAGGA	648	57.12
AATGGACATAGAGAACTTGATGAGCA	77	59.2
ACATCCAGAGTCTTCAGTCAATCG	48	58.4
GAAGTATCCACATCAAGCATCCAG	2164	58.64
GAAGTATCCACATCAAGCATCCAG	2164	58.64
TGCCATCACACCAACTATCAAG	97	57.23
ACGCTTGTCGCTCTTATTGC	425	56.9
TTGAAGGATGACATTGTAACGAA	821	56
TTGAAGGATGACATTGTAACGAA	766	56
ATCTTCTTCTCCATTATGGTCCAATC	792	58.83
CCGTGCTGTCGCTGTTCTTC	106	60.54
CCGTGCTGTCGCTGTTCTTC	46	60.54
CCGTGCTGTCGCTGTTCTTC	59	60.54
GGAATGAATGTCCAATGTACGG	442	57.78
GCCAGACATCGGAACTTCAG	97	56.91
GCCAGACATCGGAACTTCAG	91	56.91
GGAGACGGATGAGAAGAGGAC	191	56.42
TCCGTATCAAGCCATCAACTG	175	57.31
AATATGTTACAGTTGCATGTTTCGACTTG	294	60.47
TATTCCGTTGATGATTCTCGTTG	670	57.75
TATTCCGTTGATGATTCTCGTTG	581	57.75
GCAGATATGAAGACGACGACGA	170	58.94
GCAGATATGAAGACGACGACGA	115	58.94
TTGTGCTCGCTTCATCCGTA	76	59.01
TTGTGCTCGCTTCATCCGTA	86	59.01
TATGAAGTTCAAGATATCGTTCGC	245	56.4
TATGAAGTTCAAGATATCGTTCGC	245	56.4
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ATGTTGATGTGCCTCACGAAG	243	57.27
ATCGTCATATTACCATCTTCTCTCCA	54	58.18
CATCTTGGAACCTACCGGCACA	80	59.57
CATCTTGGAACCTACCGGCACA	137	59.57
TTGATCGAGAGCCAATCCAA	94	57.82
ACGATGGAGAAGGTTATGAAGG	949	56
GCTACGACGCAGTCACAAGA	683	56.25
GGAGTGTTGCGAACTACCAGA	78	56.54
TGTTGCACATACATACACGCTGT	37	57.79

GA CTGTTC CGCC AACA ACTATTGTAC	137	60.91
GA CTGTTC CGCC AACA ACTATTGTAC	172	60.91
TTCTTAGGAGGTTATGGTTACGGA	1705	57.07
GCAGCGGAGAGTCAGTTGTTT	336	58.68
AACTCAGCACAATCAAGGAATCG	603	59.25
ACGGATGAAGTGGAGAGCAA	568	56.91
TATTCTCGTTGTCGTCTACATCTACTG	1376	57
TATTCTCGTTGTCGTCTACATCTACTG	1390	57
CATCGCCTACGGACTTGACA	674	58.32
CATCGCCTACGGACTTGACA	969	58.32
CATCGCCTACGGACTTGACA	690	58.32
TTCTCTACCGCCGCTGACAA	688	60.48
ATTAGAGACTTGTTCATTATCCGA	190	56.3
CAATACTTGCTGCCGACACA	432	56.97
TGAGTCCAACAGACAATCCAATG	111	58.55
TTCGTCCTTCTTGCTTCTCTCG	37	59.72
TTCGTCCTTCTTGCTTCTCTCG	37	59.72
TTCGTCCTTCTTGCTTCTCTCG	88	59.72
AGTTGCTGGAGGCGATGGAG	530	61.25
CTAAGAGCACGAGTTCCGACGA	535	60.5
CTAAGAGCACGAGTTCCGACGA	1033	60.5
ACTGGCGGCGTTAAGGACAA	1535	61.46
ACTGGCGGCGTTAAGGACAA	1565	61.46
ACTGGCGGCGTTAAGGACAA	1649	61.46
TCGTCATGTCAGCCAAGTACAATG	464	60.88
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CAAGTAATCAGAGCAATTCGGCAT	1422	60.41
TTCGTTGATAGGTCGCTGGA	565	57.91
ATCTCTGTCAATGGAGTGGAGTACA	196	57.84
CTGAGAATAACAGTATGTGGTGGACT	537	56.64
CTGAGAATAACAGTATGTGGTGGACT	537	56.64
GCCTGTTATGATGAGCAGAAGC	301	57.72
CGATCCGAAGAGCTTGCCAT	406	61.18
GGTGTCAAGGATAATGAGGCTGT	450	58.14
GGTGTCAAGGATAATGAGGCTGT	483	58.14
GGTGTCAAGGATAATGAGGCTGT	487	58.14
TTCCTTGCTGCCTACTCTGC	204	56.92
GGTGTCAAGGATAATGAGGCTGT	450	58.14
GGTGTCAAGGATAATGAGGCTGT	483	58.14
GGTGTCAAGGATAATGAGGCTGT	487	58.14
GTCATCTGCTGCACCACCAG	142	58.84
GTCATCTGCTGCACCACCAG	136	58.84
GTCATCTGCTGCACCACCAG	139	58.84
GCAATGTCCGACACAGCAAG	311	58.88

GCAAGTCATCACGAATGTTGGAGT	2186	61.21
GCTCTCGCTTGGAAC	1004	58.62
ATGTTACGAAGGCGCTGAG	57	59.98
ATGTTACGAAGGCGCTGAG	134	59.98
GTCGTGAAGAGAAGGCACTTGTTG	476	61.12
GATGCGGATCTGACCAAGAAG	1123	58.33
TATGAACGGACACTTGATGCTT	2687	56.03
TATGAACGGACACTTGATGCTT	2687	56.03
TTCCGCATCCTCAAGTCAA	249	60.15
TTGAGCACGCATTCCACTAGC	39	59.99
GTTCTCACCATCTGCCGACA	1207	61.95
GTTCTCACCATCTGCCGACA	1262	61.95
TTATGACAGCCGCAGGTATTCG	92	60.91
GATGCGTCGGAAGTTGAAGAG	1464	58.53
CCACCGCCACCAAGACCTTA	176	61.73
CCGTCCACAAGTTATGAGATGC	1204	58.19
CCAAGCTGTCATGATGCTCA	78	56.92
GAATCGTGCCAAGACCATCG	58	60.04
CCATTGCGGTTACGGTAGTCA	583	59.46
GGACCAGGATTGATGAAGCA	200	57.1
CGTGAATCAGTGGTCTCAAGTG	1727	56.92
GGTGCCAGGAAGAATATACAGTG	475	56.48
GGTGCCAGGAAGAATATACAGTG	451	56.48
TTGCGGATTCTTCGTTGAAC	411	57.41
GAATCAGGACAAGGACGAACC	98	57.16
CGTCTTCGTTGCTAATAATCGTCA	114	59.31
CGTCTTCGTTGCTAATAATCGTCA	114	59.31
CGTCTTCGTTGCTAATAATCGTCA	185	59.31
TTACAGCCAACACTAATGGATGC	521	61.98
GTAATCAAGGAGCAGCAGCAG	528	56.5
AAGCAGGAGGAGACGCAGAA	464	58.76
GACACCACCTGCACCTCCAC	666	59.99
AGAGACCGAAGAGACCGCGTA	131	59.98
GCTGATTGAGACACGCTGCT	64	57.79
GCTGATTGAGACACGCTGCT	235	57.79
GCTGATTGAGACACGCTGCT	64	57.79
GCTGATTGAGACACGCTGCT	235	57.79
GACACCTACTCATTACCAGATACCAC	1522	56.07
GACACCTACTCATTACCAGATACCAC	99	56.07
AGCTTCGGACAACACTGTTGT	104	56.04
TCCTCCTCCTCCTGCTT	66	58.96
ATCAGTCTGCGTCTGTGTTCTG	42	57.55
CGAGCAGTCTAACGTCTCTCACT	149	56.7
AGCAGCAGCAGTAGCAGCAC	89	58.18

TTATCCTCTACCTGCTTGTCATTATCTC	35	58.46
CAATATTCCACTGCTATAGAAGAACG	89	56.61
CGAAGAAGGAGGCAGCTACTACA	76	58.84
AAGGAGAGGAATACTTCTCGGACA	370	58.46
TTCATTGTCTACCTACTCGTCCTCA	31	58.03
ACCAGAGAAGGTCCAACCGA	45	58.17
TTCACACGAGAGTAGAAGAACGTT	496	56.11
ATGGTGGTCTGAACACTAGTTGG	203	56.76
TTGTGGATGAAGAGATATACTACTGA	99	56.44
AAGAATTGGAGAGTGAATATGTGGT	344	56.11
AATGGAATCCGTTGAACAGTTG	605	57.58
GCTCGTTCAGAATGGTGCTT	651	56.61
GCAGGAATAGATACCATCTCGTTC	823	57.06
TCGGATACAATTCGACACATCA	669	57.56
ATCCTGTCCTATGATTAGCTTGA	728	57.06
GTTGAAGGAGAAGCGTGTGG	286	56.98
ATACGTTTCATGAGCGCTGTGA	186	58
AACTGAGAACCGAATTGTACAGATTG	408	58.7
AACAAGTGCTCGATACGTGTCCT	281	58.83
TCGTCGGTCTCGCTTCACTG	1277	61.09
ATGATATTGAACATCGTCATGACATTC	582	59.06
TATGTAAGAGTGAAGGTGGCGAAT	351	57.92
AGGAGACCAGATTGAGACTAATGTACT	355	56.14
CGCTGCCAAGAAGATTGATGA	344	59.92
CGCTGCCAAGAAGATTGATGA	391	59.92
CGCTGCCAAGAAGATTGATGA	131	59.92
CTGTAGTGCGTATCCAGATTATCG	74	56.76
TTAGAGAGATTCCAAGTTGCTCAA	108	56.22
ACGCACTTCCACATCCAGCA	146	61.22
ATAGAATGCTTATTGGTATGGTAGTCG	959	57.17
GACCGCCTTGCAATTACCTTG	112	59.17
AGACCACCAAGGCTAGTGATGA	1547	57.41
ATACGGAAGACGATTGAGAGACA	943	56.63
GCTCTTGGAGATTTCGGCTACT	1053	56.45
GAATAAGTGATTATTACTCGTCGTTGA	509	56.13
CTTGACCAGAAGTGTATGAATCCA	1024	56.93
TCCGCAGAACTCAACCTCAA	332	58.02
ATATCTATGAGGATGTTGGAATTGC	773	56.47
TTCCTCTCGGTACTATGCCTGGT	499	59.97
CCTTATCAGCAGTACATTCCTTACC	216	56.38
CCTGGTTCTTGTTCTGGTTGA	176	56.36
AGGTATACGTCGCCGTGGTG	99	59.47
TGGAGAGCACAAGGATAGAGGAT	664	57.98
TTCGCTCCTTCTTCACTGCT	165	56.49

CGCAGTTGGAATGAGTGAGTC	55	56.99
ATGATTGCACATTGATTCCTGA	80	56.63
TTGTCATTGTCTTCTCCTCGTC	198	57.08
AAGCACACAACCTCCACTACCG	162	56.48
GCCACATTAGCGAGCAGACA	70	58.62
GTGTTGGCTCTCCATCTCTCC	96	57.37
CTCTTCGGAAGTTGGCAACACAG	218	61.94
CCGCACCTCACGACACTAAG	163	57.98
TTGTTGAATGGTCGTGAATGG	705	57.92
GACTGGATATTCACCTCTCTATGACACC	375	57.44
AATTGCTGTCAATGGATTGGTTA	148	57.2
AAGATGTGGTGGATACAGTTGTGATTC	2318	60.35
AAGATGTGGTGGATACAGTTGTGATTC	1974	60.35
AAGAAGTTGAGAAGTCACTGTCACTG	417	57.05
CCGCCACAGAAGTTAGCACT	228	56.71
GGTGGCACTGATCAATTACATCT	139	56.74
AGTGATGCCTGGATTAGTGGAA	258	57.29
TATCGTATCTTCCAATGCTTAGTGTT	822	56.49
CTATGACGCTTGGCACAGTTG	146	58.05
TTCGATAGCATGTGACCGGAGAT	352	61.61
TTGGTTGCAGAACTGATGTCTT	718	56.09
ATCGGAGTCGGCAATGTTCT	497	58.2
GGTGTCTGAAGCCGCAGTTG	67	60.4
AACCAATTCATTCTCGCTGCT	24	57.57
TGGAGAGGAGGACTCGCAGA	526	59.64
GGAATGGAACAACAACAACTGG	2271	57.93
TTACGAGGCAGAATATTATCGACTC	615	56.91
TTACGAGGCAGAATATTATCGACTC	700	56.91
GCATCACATAATACGGCGGAA	604	59.41
CGGAACATGGACTGAAGGAC	619	56.59
CAGGAACCATTGCTCAAGTGC	728	59.32
CAGGAACCATTGCTCAAGTGC	728	59.32
CAGGAACCATTGCTCAAGTGC	491	59.32
CAGGAACCATTGCTCAAGTGC	678	59.32
CAGGAACCATTGCTCAAGTGC	761	59.32
AAGACTCTGACTACGATGACGAGAAG	312	58.36
TTCTGTTATTCCAATCGTGCTCT	51	56.73
TTGGCGATGAAGTCGTTGTG	143	59.28
GGATGAGAGCACGAGGCGAT	756	61.24
GGATGAGAGCACGAGGCGAT	811	61.24
GGATGAGAGCACGAGGCGAT	723	61.24
TCGCCTTCGCCATTATTACTG	46	58.83
GACCGTGCCACATATAACCG	89	57.44
GACCGTGCCACATATAACCG	50	57.44

AGAGCGGTTGAATACTGGCGAT	645	60.9
ACGTTATGTGTAATCATGAAGGTGA	161	56.39
CAATATTGTGCGACTACGTGGATCC	158	58.44
CTGGAGAATATTGTTGGTTGCTT	255	56.2
CTCACACACGAGCAATGTTGTC	228	57.88
CTCACACACGAGCAATGTTGTC	216	57.88
GTCAGGCGACACTTCACGAT	276	57.32
ATACTCTCCACTGCCGCTGA	40	57.1
CTGGAATGTTCTACGCGGTGA	94	59.71
ACGATGACTGATGGATGGTGT	994	56.31
ACGATGACTGATGGATGGTGT	129	56.31
GACGAACAACCTGGAACGAACA	718	57.3
TGCTATTACACTGAGGATTGCG	166	56.74
AACCGACGTTTCGTTGTTCTC	1132	56.37
AACCGACGTTTCGTTGTTCTC	1157	56.37
AACCGACGTTTCGTTGTTCTC	280	56.37
AACTTCCAACACGACCATGTG	74	57.02
CCTTCTGCTGATGACGTCACAAG	61	60.79
TTGGTAGAACAATGTGAGATGGAA	87	57.29
AATGATGGCGTTGATGATGG	1138	57.82
AATGATGGCGTTGATGATGG	989	57.82
ATTGGAACAGATCGTGGCAA	1130	57.6
TTGGATCATATGACAGCAACTAGTGA	542	58.74
GAAGACGACCGACTAGAGCATACATAC	721	59.62
CACCGCATTCTACGAACCTG	189	57.84
CTATTCAATGTGACAGATTCAGTGG	374	56.54
GGAGAAGTTCACGAGCGGTA	43	56.62
TGTCGATCAGGAACACATTGG	777	58
TGTCGATCAGGAACACATTGG	754	58
GTGGCATCGTTCACTGCTGAC	834	60.29
CTCGGCTCAACTGATTCATTG	477	57.03
GCCGTCTCCTTCTCCTGTCT	133	57.11
GCTCTGTTCTGGATATGTACGCAA	304	59.3
AAGGTGTCAGGAGCAAGGAA	226	56.02
TTCTCATTAACACTGATTGTTCCG	483	57.02
GTGTGCTGTGACTACGCCATT	777	57.36
GGAGAGCAAGTGCGAGCAACTAC	685	61.35
CGTTGCTTGAGGTATTGGAGA	469	56.59
ACTGGCAGAGTTGGATGTCAC	810	56.25
CAAGTTCTCCACCGTCTCTAAGC	86	58.21
GAGTACCTGCTGCTGAATATGATAGTG	856	58.54
GTACCTGCTGCTGAATATGATAGTG	856	56.01
GGTCCAGTTCGACAGGCTCT	191	57.92
ACATCGCTGAGTTCCTCTGGTG	131	58.07

AATACTTCTGCGGCGCCAGT	104	60.72
AAGGAGTCGTTCACTATGAAGGAA	168	57.19
GAGACTCCGCGGAAGCTCAG	85	61.14
CTATCGGTTATGTTGGCGGAA	166	58.57
TCAACCAGAAGCCACAGACC	207	57.29
CATCTCGGAATTGACGATAAGAAC	293	57.85
GCGTTGTCTGAGGTGCTTGG	788	60.4
ATTCACACAGTTGGCAGCGA	2819	58.88
TTCTGTCATCATTGAGCTTCTGG	484	58.06
CTTCCAAGTCTACTCTCACCATGATC	81	58.4
GACTCCAGAACAGGCGTGTACT	249	57.08
CAGTCCAGTCAGCCGTGAGA	30	58.55
TTACGCAAGAACAGACTCACTATTACC	472	58.17
TTACGCAAGAACAGACTCACTATTACC	485	58.17
TGATCAACATCCTGCATTCATG	186	58.03
ACCATGAAGCCATCGGTTGT	276	58.86
TACCACATCTACTCCATTGAGCCTT	1858	59.09
CCACATCTACTCCATTGAGCCT	1857	56.92
CCACATCTACTCCATTGAGCCT	1857	56.92
CCACATCTACTCCATTGAGCCT	1857	56.92
TACCACATCTACTCCATTGAGCCTT	1858	59.09
TACCACATCTACTCCATTGAGCCTT	1900	59.09
GTAGGCACCGACCACGACAT	354	59.43
GTAGGCACCGACCACGACAT	201	59.43
TGGAATGTCGATGTGTGTTCTC	576	57.1
ATGGATGTTGATGATGAGCACTATG	1371	58.89
ATGGATGTTGATGATGAGCACTATG	1365	58.89
GTGGAACGCTCAGTAGATACAGGT	54	57.56
CCTCTTCCTCCTGTTCTCCTCCT	74	60.17
GCGTATTCTCAACAAGTACAGTCAA	104	56.48
ATGTGTCTCCATATACACCAAGTCG	291	58.03
GGCGAGTTCAATCATAAGTGTCC	107	58.63
ACACGATGGTGTGATGAGAA	917	57.59
ACACGATGGTGTGATGAGAA	739	57.59
ACACGATGGTGTGATGAGAA	790	57.59
TACCGCCGTATAACCAACCAAC	64	59.61
TACCGCCGTATAACCAACCAAC	64	59.61
AACAGAAGTGTTCTACAAGTATTGTCA	708	57.66
CAAGAGCATGATCTATCGCAAC	1673	56.26
CCAACAGCATTACTCACCATCC	1949	58.05
ATGTATTGTCACAATGCCAGCA	303	57.64
ATTCTCCGACTGGCTATATCACC	701	57.34
AACGCACACACATACACACGCT	53	60.12
CCAAGTGGTTGACGACTGTTT	767	56.74

CCAAGTGGTTGACGACTGTTT	777	56.74
TCATCATTCAATTGTGAATGGTGA	55	57.4
ATACTTGAGCATGGAATCAGTCC	1287	56.01
CTTCTGAACGACGGTTGAGC	78	57.13
CAGCAGACGATGGCTATTGAG	825	57.21
GCAAGATGAAGATGGTGAACAGA	817	57.92
GATCTCGAATTGGCGACCGA	161	61.95
CATCAAGTATTGGCTCGACTACC	333	56.62
TTCGTCGTCTTCCATACATCG	1854	57.31
TTCGTCGTCTTCCATACATCG	2152	57.31
TTCGTCGTCTTCCATACATCG	1863	57.31
TTCGTCGTCTTCCATACATCG	2161	57.31
TTCGTCGTCTTCCATACATCG	1854	57.31
TTCGTCGTCTTCCATACATCG	2152	57.31
TTCGTCGTCTTCCATACATCG	2150	57.31
CTGTCTCAACTTCTTCATCTACG	78	56.05
GAACACAGAGTGCTCCTGTGG	211	56.95
CTGATACTTCAGACATTCTCCAAGAAG	186	57.84
GAATGAGGATGTTGAAGGACCA	1705	57.57
AGGAAGCAGTCAAGATGAATCG	125	57.18
TTGTGCAGTAATGAGCGAGGA	548	58.12
ATTCAAGCCTCCAACCTCTCTCA	253	56.77
GGTGTGTTGGTACTATTCGAGTGG	1333	59.69
GGTGTGTTGGTACTATTCGAGTGG	1333	59.69
AACCGATGGACAGAGACGCT	717	58.35
AACCGATGGACAGAGACGCT	716	58.35
CACACGATTCAAGAGAGACTTAGACC	74	57.31
TGACAGTGTTAAGGCTTCAGTGAG	48	57.37
TTCTTATAGTGATCAATGTTCTGCTT	512	56.99
CATCATGGTTCAAGTAAGAGTAAGAGTT	1267	56.63
CTGCGACAACGAAGACTGCTG	449	60.72
GAGAATGAGAGTGAGAATACCAACG	91	57.2
GGACTTCTTGTTGGCGTTACAG	70	57.55
GGACTTCTTGTTGGCGTTACAG	70	57.55
TGCGAGTCAATTCCTACAGAACA	596	58.5
CCACTGTATCAACCACCGCTA	552	57.24
TGGCAGAGAACAGAGTGAAGC	55	56.86
CGCAGAGAAGAGCCGAGGAA	229	61.62
CTTCTGAACAACGATTGAGCGATT	208	60.56
GCAATCGTCAGCGTATGAGAGA	146	59.08
GGCTGTCATTCAACATTCAAGAGAG	636	58.89
CTTCTCTCTCCTACCGTGCTGT	31	57.86
TTCCTTCAATCAACCATCCTGGA	109	61.44
GCCTACTGGTACGATACTTCTGC	454	56

AACTTCACAACGTCTACGAGATCA	340	56.76
AGGAGGAATCTTAGTGGCGTTG	921	58.4
AGGAGGAATCTTAGTGGCGTTG	921	58.4
ACGACGGACAAGTTATGGTTATGG	1332	59.99
ACGACGGACAAGTTATGGTTATGG	378	59.99
CGAACACCTACAGTATCCACGA	134	56.4
TTGAATCACTGATGTTGGCGAA	860	60.06
TTAGATGACTATTGTGTACTTCTTGGC	264	56.2
TTCTGGAAGGTGAAGCCGTT	68	58.37
CAGATGACAGCGGAGAAGGA	952	57.55
CAGATGACAGCGGAGAAGGA	952	57.55
AGGTTGAATCAGACGGCGAT	168	58.2
TGGCAGGAATCTACGGAAGTC	843	57.87
TGGCAGGAATCTACGGAAGTC	747	57.87
TGGCAGGAATCTACGGAAGTC	843	57.87
TGGCAGGAATCTACGGAAGTC	747	57.87
ATGGCTCAAGGTGGTTAGTGG	45	57.66
ACATCACACATTCCAGTAGACGAC	303	56.77
TGTCCAGATGAACAACCAAGATG	916	58.55
TGTCCAGATGAACAACCAAGATG	820	58.55
GCAACCAATCCACACCGACA	312	61.32
TGTCCAGATGAACAACCAAGATG	1005	58.55
TGTCCAGATGAACAACCAAGATG	907	58.55
GACAACCTCAAGGCGCTACA	75	57.57
GACAACCTCAAGGCGCTACA	33	57.57
CAACTTCAGGTTCTTCTCAATCAAG	481	57.36
GGATCTTACTCAAGCGGCAA	128	56.66
CCGAATGACGATTGCAGTAGC	334	59.32
AACTATGCGGCACAATTCGA	758	57.85
AACAGTTGGAGCTATAAGAACAGTTG	310	56.27
TGGTTAGACTGTTCATAGGAGCATT	1001	57.18
GGAGTATGTCAGACATCGTTCATGG	613	60.58
ATATTGGTAGGAGTGAAGTCATTGC	512	56.61
AGGAATATGCTCAATGTCTACAAGGA	320	58.34
GTCACGCTCCATCTCTGCAC	469	57.98
CCGGTTCTTATGATCTCTCACG	480	57.44
AGTTCTACAAGTTGTACTACAAGATCGG	61	56.7
GCACACGACCAATACAACAAGA	801	57.28
TGTCCACTACGTCATGTGGTTCG	34	61.69
AACCACAATGATGCCACAAC	830	56.5
GCAACAACACAGATCACTGTATTCTG	687	59.58
GAATATGGATACGGTGGTGGCT	206	58.71
TGTTCTGCGTTCAAGTCCA	137	58.85
AGCGTTGACATCTGCCACCA	78	61.22

AGCGTTGACATCTGCCACCA	78	61.22
ATAGCGATGCCACTCTCAAGC	1488	58.18
CGCTGAAGAACGAGAGGAGA	1410	56.95
CGCTGAAGAACGAGAGGAGA	1720	56.95
CGCTGAAGAACGAGAGGAGA	1310	56.95
CGCTGAAGAACGAGAGGAGA	1293	56.95
CGCTGAAGAACGAGAGGAGA	1720	56.95
CGCTGAAGAACGAGAGGAGA	1310	56.95
CGCTGAAGAACGAGAGGAGA	1293	56.95
CGCTGAAGAACGAGAGGAGA	1720	56.95
CGCTGAAGAACGAGAGGAGA	1310	56.95
CGCTGAAGAACGAGAGGAGA	1293	56.95
CGCTGAAGAACGAGAGGAGA	1720	56.95
CGCTCATGTTAATCTCTCCGTGT	99	59.27
ATGGTGGTGACTCGTTGGAT	874	56.29
ATGGTGGTGACTCGTTGGAT	863	56.29
ATGGTGGTGACTCGTTGGAT	637	56.29
TCGCTGTGCTGATTCTATTCTTC	408	57.42
AAGTGAAGGAGGTGGCTTGGAC	854	60.46
AAGTGAAGGAGGTGGCTTGGAC	865	60.46
CGACAAGGCCAAGATAGTGC	1273	57.2
CGACAAGGCCAAGATAGTGC	1273	57.2
TGCTCCAGAAGACACGACTACA	682	57.22
CCAGGTGTTGAGAGTGAGAC	541	56.71
CGCTGACGTGGACAATAGTG	93	56.39
AAGAACATCGGAGAGAAGGCGTT	1856	61.34
GATGATTATTGCCGCCAAGTTC	597	59.42
AAGAACATCGGAGAGAAGGCGTT	1933	61.34
TATCGGATAATGAGTACGCAGACG	519	59.17
AACTTCAGAAGAGACTTCACATCACTC	43	57.46
AGTCTCTCACGGAAGTGTGGAC	338	58.39
AGTCTCTCACGGAAGTGTGGAC	190	58.39
GATATGGTGGTGGTGGTGGG	712	57.49
GATATGGTGGTGGTGGTGGG	915	57.49
GATATGGTGGTGGTGGTGGG	263	57.49
GGAAGATGCTACGAGTGAGAAGA	62	56.51
TTGGAGAACATGCACTGACG	96	56.82
AATGGATGAGCGAAGATGAGG	74	57.82
GTCGCAATTGGTGCAATGTG	281	59.55
GCCACCAGTGCATCTTCGTG	213	61.22
ATCACTCCGTTCCATTGCTCA	297	59.13
TGATCTACTGGACTCCAATCAATTGG	36	61.28
GCTAACGAACAGATTGATTATGAGTC	4274	56.49
GAAGAGCACGCCTAGTGAGAA	813	56.07

TTGTGATTCTCCGTATGAACCAG	214	57.73
TTCACAAGTAGTGAGTATTACGACCACA	517	59.13
TGCCTGCAATGTTCTGTTG	145	59.28
TGCCTGCAATGTTCTGTTG	123	59.28
TGCCTGCAATGTTCTGTTG	145	59.28
ATCTTCGCTTCACCACTGTCC	486	57.85
GGATCTTGAGGCAGAACGATT	1253	56.96
GGATCTTGAGGCAGAACGATT	1253	56.96
TTCTGAATTCCACAATGCTCATAG	523	57.1
CGTTGATAAGCAGTGTAATTCTCCA	339	58.44
TGTTCTGCTCAGAGGCTCGT	738	61.04
GGTAATAAGAATGCCGTCGTTGAAG	973	60.92
GGTAATAAGAATGCCGTCGTTGAAG	989	60.92
CCTGCGGAAGTTCTCCTTCT	1241	57.21
CCTGCGGAAGTTCTCCTTCT	1176	57.21
CCTGCGGAAGTTCTCCTTCT	829	57.21
AACTCAGCCAGCCAGAACAAC	115	58.05
AAGTTCGATGTGCTCCAACAG	494	56.54
AAGTTCGATGTGCTCCAACAG	494	56.54
CAGCAGTTATTAGTTGGAGATGATTC	188	56.49
TTCACGGTTACACAGGCTCAG	329	57.49
TTCACGGTTACACAGGCTCAG	343	57.49
AATACGAACTGTTGGCTGGTG	48	56.38
CAATTCAGTGACCAAGAAGTTGATGA	462	60.35
GAGGAAGAAGACGATGATGCTG	1097	57.62
GAGGAAGAAGACGATGATGCTG	991	57.62
CCAGTCAAGGAATTAATGGATAAGG	265	58.1
CCAGTCAAGGAATTAATGGATAAGG	256	58.1
CCAGTCAAGGAATTAATGGATAAGG	108	58.1
CCAGTCAAGGAATTAATGGATAAGG	116	58.1
CCAGTCAAGGAATTAATGGATAAGG	117	58.1
CCAGTCAAGGAATTAATGGATAAGG	108	58.1
CCAGTCAAGGAATTAATGGATAAGG	116	58.1
CCAGTCAAGGAATTAATGGATAAGG	116	58.1
CCAGTCAAGGAATTAATGGATAAGG	108	58.1
CCAGTCAAGGAATTAATGGATAAGG	116	58.1
CCAGTCAAGGAATTAATGGATAAGG	117	58.1
CCACACGTTGTTGGACAATG	194	56.86
GCACCAGACAAGCATACGGT	570	57.29
GCTGCCAGAGGAAGGTGTAAC	755	57.54
ATGGATGGTACAAGACAGAATATCGGA	150	61.74
GGACTGAATCCAATGGTCAATC	1639	56.91
GCTATCGCAGTTGTTGCAGTTG	178	59.54
AGCTATGAATTCTTCTGGAACCTCA	1929	56.61
ATGGATATGGTGGTCTTGTAGTGTT	548	56.67

CATTGCCTCATTCTTGATATCTTCG	753	59.93
CTTGGTTGCTCGATGTTATGAAC	786	57.44
AACAATAGGAATCAGGTGGCGAA	1462	60.62
ATTGATGCTCGCCGTGACTC	165	59.81
TGGATTATCATTACTACAAGAGTACGGT	163	56.78
AACTACGACTTCAGCAACATCAGC	73	58.64
CTGTTGAAGCTACTCTCTATGTTCTGC	69	58.14
TGGTCAAGCAACTGGTCTCA	1216	56.35
TGGTCAAGCAACTGGTCTCA	1651	56.35
TGGTCAAGCAACTGGTCTCA	1651	56.35
TGGTCAAGCAACTGGTCTCA	1216	56.35
AACCACAAGATGCTGATGAATG	218	56.3
AACCACAAGATGCTGATGAATG	218	56.3
GCAGTTGTGAGGATACCAGAGAC	51	56.57
GCAGTTGTGAGGATACCAGAGAC	51	56.57
CCACAACATGACTCGACGAC	26	56.04
AATGGCAACTTGTCACACTTCA	508	56.86
TGTGGAGCAAGATAGCAGTTACGA	402	59.91
TGTGGAGCAAGATAGCAGTTACGA	286	59.91
TCCAGCGAGAATCAAGGTTATGC	927	61.34
TCCAGCGAGAATCAAGGTTATGC	1000	61.34
TCCAGCGAGAATCAAGGTTATGC	823	61.34
CAATACTCCATCAACTGCCTCA	1627	56.46
CAATACTCCATCAACTGCCTCA	1471	56.46
GCCGCAATTCTCAAGTATATCACTAC	288	58.41
TGATGGTATCAACAGTTGTGTAGAGA	1298	56.61
TGATGGTATCAACAGTTGTGTAGAGA	1312	56.61
GTTCTCCACACTCCACATTGC	889	56.68
TGGAGGATGGCGAGGATGTTAC	4354	61.99
AACAAGAAGAAGACGGATGCG	982	58.06
TTCAATGGTCCGAAGCAATG	2834	58.15
GTCTGAGGCTCGTCGAGATGC	101	61.03
CATGTCTACCTGGCATCGAATGAC	164	61.52
ATTGTTGCATGTCTATCTGGACCTA	425	57.81
GGAATACGGACGGATACCTGT	51	56.53
GTTGAGAGCCATCGGAGGAA	322	58.81
GGCAATGGAACAATACACAGAGA	306	57.73
GGCAATGGAACAATACACAGAGA	306	57.73
GGCAATGGAACAATACACAGAGA	306	57.73
CTGGATATGCTACTGGCGGAT	238	57.79
CGGCTTGTGGAATGGATTATCTG	802	61.43
CGGCTTGTGGAATGGATTATCTG	792	61.43
TTCACGACTTCTTGATGGTAGTTC	1099	56.27
TTCAATTCGATATCACCGTGTTTC	88	57.61

GCAGTCACGTGGTTGCAGTC	33	58.9
GATAAGAAGGTGTTGGATATTGGATG	137	57.99
GATGATTATGTGAATCGGCTTGC	489	59.43
CCTCGTTGAGTTACACGTATTAGGA	63	57.59
AACGGACAATCACCAACCAGT	310	57.88
AATGGAAGATCATGGACGTGTTG	77	59.7
TCAATTATACAGTGAAGTTATGGTTCTG	434	56.08
TTATCATCAACGACATTACGCACAG	146	59.9
ACCGATGCCTGTGTCAAGAG	634	57.32
ACAACAACCGTCATCCACAGA	4059	57.5
CCGCCATCAGGACAACCTT	2101	58.73
ACAACAACCGTCATCCACAGA	1340	57.5
ACAACAACCGTCATCCACAGA	1340	57.5
AACCAATGCTTCTTCACATCCA	81	58.17
GATGTGAACAACATGGCTCAAC	116	56.64
GCAATAACAAGGAGTAGATGAAGAACC	37	58.75
CTGATTCATTGGCATGAAGCATT	242	59.92
CGTCCTACTCATCTTGTTGTCA	55	57.86
GATTGTTTCGTGGACATCAAGTTG	896	58.09
GATTGTTTCGTGGACATCAAGTTG	1220	58.09
TTCAGAGCAAGATGCGGTCA	103	59.11
TGCTGCCGTCAATGAGGTCT	434	60.37
TGCTGCCGTCAATGAGGTCT	342	60.37
TCAACGACTACATCCAACAAGC	540	56.52
TCAACGACTACATCCAACAAGC	540	56.52
GTTGACATTGTTGAACAGATGGAGA	27	59.03
GTTGACATTGTTGAACAGATGGAGA	57	59.03
GTTGACATTGTTGAACAGATGGAGA	27	59.03
GTTGACATTGTTGAACAGATGGAGA	57	59.03
ACAATCGGAGATGTAACGTACCTT	166	56.2
TTGGTGGTGAAGCATACAGAGTT	1416	57.42
GAACATTCCTGTGACTGATCGTGA	1313	59.99
GAACATTCCTGTGACTGATCGTGA	1338	59.99
GAACATTCCTGTGACTGATCGTGA	1338	59.99
GCCTTCTCCAGTTCACTATGTTG	1399	56.69
GCCTTCTCCAGTTCACTATGTTG	1399	56.69
CTGCTCTCGGACAACATTACG	178	57.12
AGTTGGATAACAGGCTTGAATC	233	57.36
AGTTGGATAACAGGCTTGAATC	244	57.36
AGTTGGATAACAGGCTTGAATC	73	57.36
AGTTGGATAACAGGCTTGAATC	243	57.36
CGAGTGAAGACGCCGAGGAG	418	61.95
CGAGTGAAGACGCCGAGGAG	418	61.95
GTGGATTCTACGGAACGTGTTGATG	401	58.55

GTGGATTCTACGGAAGTGTGATG	473	58.55
GTGGATTCTACGGAAGTGTGATG	401	58.55
GTGGATTCTACGGAAGTGTGATG	378	58.55
GTGGATTCTACGGAAGTGTGATG	473	58.55
CCAGGACAGGAAGGAGCAGA	42	58.96
GCCGAATATCATAGACGATAATGC	95	57.8
TGAACAACCGAGAGAGTCTCAATG	323	59.39
GGTTATATTGTGCTTATTGACACTGGA	1092	58.53
CTATGAATAATAATAATGGACAACGCTT	650	56.53
GGTTATATTGTGCTTATTGACACTGGA	915	58.53
GCACCGAGATACAGTAGCAGCA	895	59.14
CAATGTGTAGCGCACTCCAG	88	56.55
GCACCGAGATACAGTAGCAGCA	965	59.14
GCACCGAGATACAGTAGCAGCA	1040	59.14
GCACCGAGATACAGTAGCAGCA	1001	59.14
AACTCAGTCATACGTCAACGAAGA	287	56.76
ATCGTGGAGCGGTATTCTGGA	248	60.41
AATCCTGTGGACACTGTGAATG	1132	56.08
AATCCTGTGGACACTGTGAATG	109	56.08
AAGAGGAAGTGATAGTGAGAGAGGAA	298	57.09
AAGAGGAAGTGATAGTGAGAGAGGAA	148	57.09
GACTTGCTGGTTGACAACCTCGTT	847	59.31
AAGAAGAAGAATTGCCGAACC	287	56.24
TGTCAATGTTCCGCTATGCTT	551	57.01
CGATTATCTCTCTGGCAAGTTATTGG	495	60.27
GTCTACTGCTGGTCGTTCTGTG	35	56.22
GCAGGTGTTGGAATCAGTGGT	230	58.51
TCGAAGGCAGCTGAGGAGTT	130	58.76
AAGAGATGGCGGAATATTGGAA	782	58.57
CGTCAGTTGTGGCTCAGGAT	494	57.32
ACTGGAGTAGTGTACTGCTTCGC	412	56.54
CGTCAGTTGTGGCTCAGGAT	494	57.32
ACTGGAGTAGTGTACTGCTTCGC	412	56.54
ACCGTCAGTTGTGGCTCAGG	492	59.73
TCACAGAAGACACCACAGACGCT	29	60.86
ATCACATCAAGACATGCCGAT	59	56.53
TGGAGATGAGGAGAGCTCAGAGA	337	59.3
ACCTCTCATTCGTTATCACCTCTTC	39	57.94
CGCACATCGTCCATCATCTTG	167	61.01
GTCCCACTCAACAGCATTCC	1521	56.67
GTCCCACTCAACAGCATTCC	1571	56.67
GTCCCACTCAACAGCATTCC	1545	56.67
GTCCCACTCAACAGCATTCC	1595	56.67
AACACTTGCTTCGTATTCTTCCTAA	1849	56.66

AACACTTGCTTCGTATTCTTCCTAA	1899	56.66
CACATCAACATCTACATCCTCATCA	181	57.62
CCAACAGATTCCGTGGCAGA	609	60.6
CCAACAGATTCCGTGGCAGA	609	60.6
CCAACAGATTCCGTGGCAGA	846	60.6
CCAACAGATTCCGTGGCAGA	846	60.6
TTACCGCTCTTCATTGTGCCA	707	60.21
TTACCGCTCTTCATTGTGCCA	707	60.21
CCTCTCTCTCCATGGCTCACC	93	59.78
GGAATGAACAAGTCAATAGATGAGATG	1281	58.21
AACGTGGTGCAAGCCGTTCT	66	61.55
CATCCTGTGGTGCTGCGTATC	123	60.11
CATCCTGTGGTGCTGCGTATC	123	60.11
CATCCTGTGGTGCTGCGTATC	122	60.11
CATCCTGTGGTGCTGCGTATC	137	60.11
CATCCTGTGGTGCTGCGTATC	123	60.11
CATCCTGTGGTGCTGCGTATC	144	60.11
CGCAATTCACGCTAGAACTCA	524	57.8
TGGAGTTCTTCTTCTCATTGGTC	919	56.19
TGGAGTTCTTCTTCTCATTGGTC	919	56.19
AGATTGGATGGCGACTGGAA	189	59.08
AGCAGTTCATCCATCCTCTTCA	834	57.47
TCGTGTTCTTCGTGTGAGGCT	1034	59.48
TTGTACACCTAACCGATATTCCA	100	59.26
TTACCGCCACGAGATAGCAG	488	57.62
TCAGTATGGTTGATTGTGCTAGTTGG	607	60.25
CGCTCAGGATAGACTCATTGC	304	56.28
CGCTCAGGATAGACTCATTGC	304	56.28
CGCTCAGGATAGACTCATTGC	304	56.28
TTGCCATCCTCACCTTCTCTG	151	58.87
GACAGTATCAATCTACGGTATCCACA	723	57.29
TATAATGACCGTTGTACCGATT	934	57.09
TTATCTGCCGCTCGCTATGAG	402	59.2
GGCAGCACTGTTGACCATTG	424	57.74
GCAATTCCTGTTGGCAGCAG	364	60.35
GTGATGTGCGGTCTTGGACT	173	57.16
AATGGATGATAGTTCTGGCACAA	219	57.25
GCTCACTTATGTCTCCGCTTG	693	56.35
GCTCACTTATGTCTCCGCTTG	698	56.35
AAGTTCAATATGATCGAGGACACTACT	702	56.82
GGTGCTGTTCGTGTATTATTGCG	391	60.36
TGTCTGAACAAGACTATTAGGAATGG	911	56.79
TTCTTCCAAGCACCTCACCT	544	56.02
TTCTTCCAGCCTTCATTGTCA	793	57

TTACGTGGATCGTGGTCAAGA	282	57.68
CTCTCAGATGAAGCCATGTGC	157	57.08
GCTGTTGATTCAATTCTGCCAGTAC	1306	58.82
CGGTTGCTCATCGAGCTCTA	50	57.81
TCTGAATAACGGAGGCGACGA	137	61.55
AAGTTGCTCAACGTGTTGCTCA	96	59.55
TAGAATTGGATCTTATGGAATTGCTATG	330	58.94
CGATGATGTTCCATGCTCAA	223	56.64
GTGGTGGACAGCAGCAGAAC	168	57.88
GTGGTGGACAGCAGCAGAAC	168	57.88
TCCAATGCTTCTTCGTCAGG	192	57.48
GAAGTCTGCTGCTGCTGCTG	1053	58.66
GAAGTCTGCTGCTGCTGCTG	1059	58.66
CACAACTTCCAATGATTGTAGGC	113	57.31
GCAACCGCTGTTAGTTGTGAG	891	57.18
AACGAGACAGTGTGCGGAAG	1321	57.54
AACGAGACAGTGTGCGGAAG	1237	57.54
AACGAGACAGTGTGCGGAAG	1298	57.54
AACGAGACAGTGTGCGGAAG	582	57.54
TGTCATCTTCCAACCAGGCT	3556	56.75
TGTCATCTTCCAACCAGGCT	3567	56.75
CGGATATGCTGCCTTGACTT	86	56.54
CGGATATGCTGCCTTGACTT	86	56.54
TTCTGCCACACTTACAGTATCCAA	79	57.51
AATCTTCGAACTATGCATTCCAC	238	56.13
GCTGATAGGATTATGCTTGTTGCC	1422	59.95
GGCTCTCCGTATCCTGGAAT	1219	56.76
ATGACGATGACTGTTCCGATG	769	57.05
GATGCTCTCAATGCTCCAAGTC	698	57.62
TCAACTTGCGATTCCAGTGA	1456	56.41
TCAACTTGCGATTCCAGTGA	1563	56.41
AACTTGGCTCCGTCTTCACTC	39	57.13
TCAACTTGCGATTCCAGTGA	1495	56.41
AGAGACGGAGAAGATGAGGAAGA	826	57.34
CGAGTAGCAGTGAGAACGAAGC	922	58.04
CGAGTAGCAGTGAGAACGAAGC	920	58.04
CGAGTAGCAGTGAGAACGAAGC	734	58.04
CGAGTAGCAGTGAGAACGAAGC	760	58.04
CGTACACCGCTATATCAAGTGAAC	1000	56.68
CGGAATGGACTGATGGACAC	1440	57.36
GACTAAGTTCGGATACAAGAATGCG	1740	59.23
AAGTTGGCAGGTGGTGGACA	142	59.97
TTGATGACGCCGTGACTGTG	87	60.28
AATGGTGGATTATGTGTTCAACTATC	211	56.33

CCGCTGACAAGGATTGTGATG	426	60.08
GATCCAGGCAGTCTCTACTCGA	172	57.23
GCGTATAGACTACTTCTGCTCTACACCA	148	59.48
ACAAGAAGCAGAAGGAGAGCAA	36	57.12
ACAAGAAGCAGAAGGAGAGCAA	38	57.12
CGACGATTCATGACGGTGAT	51	57.96
TCAACAGCAGCAACAGCAACA	5694	60.19
TCAACAGCAGCAACAGCAACA	1202	60.19
CGAGGACCAGAGATGAGGATG	1192	58.28
CGAGGACCAGAGATGAGGATG	1192	58.28
TGCTCCTCGACTATCTCTTGCT	98	57.09
TGCACCGAATACGTGCTGAA	218	59.84
GGTCTGGATGAGCGTATTCTGA	314	57.88
AACACCGAATGAAGAAGAGTCAGG	200	59.64
CTCCGACAGCGAATAATCCG	174	59.26
GTATCCAAGAATCACCGCAGA	740	56.37
GTATCCAAGAATCACCGCAGA	743	56.37
TCTGAATGAACAAGCGGCTCTC	668	60.46
CAGTGATTCCGACAGTGATAGC	574	56.05
CAGTGATTCCGACAGTGATAGC	574	56.05
CGTCATGCCTGGTCTAGTCAC	488	56.86
TGGATTCGTCAGCACTTCGG	28	60.74
CAAGGATCATTGCGTCATCG	404	58.67
CAAGGATCATTGCGTCATCG	404	58.67
AATTGTGTGGAAGTGAAGTATCAGTT	568	56.24
AATTGTGTGGAAGTGAAGTATCAGTT	568	56.24
ATGAATATGACATTGCCAGTCG	858	56.23
ATAGCGTGATGCGTCAAGTG	3783	56.02
ATGCCAACAACAACCTCCAC	563	56.94
ATGCCAACAACAACCTCCAC	563	56.94
ATAGCGTGATGCGTCAAGTG	3660	56.02
TTGAGCAGCAGAAGATTGACAT	910	56.33
CACCGTTGAGGACCGTATTATTACTATG	99	60.89
ATCGAAGTGAGTTGCCGCCTT	56	61.92
GGCACTACACCTCCATCATCC	93	57.92
GTGGTCACTTGAGAACATGAAGAAC	85	57.86
GTCCACTCTCTGCCTCTCTGTC	445	56.76
GTGGAGCTGGCTGGAGGAAT	277	60.17
GTGGAGCTGGCTGGAGGAAT	268	60.17
CTATCCAACAAGCAGAAGAACGA	295	57.33
GGAAGAACCATCATCGCCAA	392	59.46
GGAAGAACCATCATCGCCAA	434	59.46
TCGGAAGCCGCTTATAATATGC	213	59.22
TGAAGAGAACTGCTCCATCTGG	71	58.13

GTCTCATATATCTGCTCAATTCCTCTC	2742	57
TTCTATCTAGCCAGCTCTCCGA	169	57.13
ATTACGAGAAGTTGGAGCAGTTG	499	56.43
AGGATGATGGACTGTTGGATGA	1061	57.91
AAGGATGATGGACTGTTGGATG	1060	57.45
CCACTCTGCGGACTCATTGC	491	60.37
TTCGCTCAATTGAACACGGT	41	57.81
TGGCAACTTCACAACAGAGC	1578	56.05
TATGCGAGAAGCACGGCTCA	520	61.54
CTCGTCTTCAGCAATCGGTCA	255	59.96
CTCGTCTTCAGCAATCGGTCA	230	59.96
GAATCTGGAGTTGTTGGAGGAA	1115	56.86
GAATCTGGAGTTGTTGGAGGAA	1108	56.86
GAATCTGGAGTTGTTGGAGGAA	1082	56.86
GGAACCAACGCCTTCACTGA	175	59.67
GGAACCAACGCCTTCACTGA	245	59.67
GGAACCAACGCCTTCACTGA	175	59.67
ATCTGGCTCGTATTCACTTGTC	690	56.22
CGGAAGAGCGACAAGCATCA	269	61.02
CTTATAGAATAGCGAATCTAGCGAGAA	928	57.13
CATACAGTATGTCCGACATGAGCT	646	56.98
TGCCACTAGCAATTGATCCA	107	56.34
CGCAATACGATACGAATACGAA	75	56.64
CCTGGTCGCCTGTACTCAGC	97	59.45
CCGTGAAGAAGCTCCAGTCA	34	57.61
GCACAATCACAGGTGTCTGTG	6029	57.08
CTCCGAGTTGCCAATTGAACT	119	57.92
CTCCGAGTTGCCAATTGAACT	45	57.92
TTATCCAAGGCAATCACATTACG	328	57.71
GACGACATTGGAAGCACCGA	2293	60.61
AGTGGACGGTCAACCATCAG	169	57
CGGAGGCTGTGGTGACTGAT	75	59.69
CTCAGCGTGTGAACCGACAT	344	58.32
GCAACCTTAACAAGATTCGCA	222	56.7
AAGCCTATGAGATTAGACACACCAA	121	57.18
CCACCGTCTCAAGTAGGCAA	128	57.41
TTATTATGGTGCCAGAATGCTCA	345	58.26
GCTTCCTTATCGCCTACGCTA	961	57.47
ACTGATTCTCCAATCGTTCACG	137	57.79
ACTGATTCTCCAATCGTTCACG	137	57.79
GGCATTCCAGTGAACATAGCA	738	57.3
TTCGGTCATTGTGTCCTTAATAGTTG	583	59.35
AATTGCCGCCACCTTCTCAC	865	60.95
GGCTTGTGGTTATGATTGTGAA	251	56.27

TTATTGCTGCTGCGACAGCT	133	58.43
TTATTGCTGCTGCGACAGCT	133	58.43
CATCGTTGCTGTTGCTACCG	91	58.94
GAGCTGGTATCGTGCCATAATACATG	185	61.59
CATCGTTGCTGTTGCTACCG	55	58.94
CATCGTTGCTGTTGCTACCG	44	58.94
CGCAACGATAAGTATGACCTCTC	48	56.76
TCAACACCAGAGACTTACACAGCA	48	58.57
GTCCTTCCTAACGACAGGCAGA	55	59.35
CCGCATGTCGTGACTAATGTC	46	57.7
CGGAAGGAAGTGACGAAGAAG	145	57.66
ATATGATTCAATTAAGAATGACATGCAA	48	58.11
TGACACACTCACTGAGGAGGAA	194	56.94
AGACTCCTGGTTGGACTGTCG	124	57.84
TTCCAAGCACTCACCGTGAG	76	58.45
TCCACACGACCGAATACATCC	1141	59.25
TCCACACGACCGAATACATCC	1142	59.25
TCCACACGACCGAATACATCC	1319	59.25
TTCTTCTACTTATTCAGGACTCACTTCA	98	57.2
TGGAGGAGATGTGGCAGGAG	1497	59.77
AATAGTTGGATCGGCTGGAAT	747	56.32
CTGTAAGGATGAATCTGGTGGTTC	245	57.71
GTACCAATGGAAGGAGGCAA	149	56.21
GTACCAATGGAAGGAGGCAA	148	56.21
AACGGTGTAATACGGACGCA	206	57.64
GACATCTACACAGAGCCTGGACA	342	57.93
GACATCTACACAGAGCCTGGACA	255	57.93
GGTGAACAATTGTGCGGCAA	200	61.41
GGTGAACAATTGTGCGGCAA	286	61.41
GCGTCAAGTACTGCGGCTCT	209	59.24
GCTGGAAGCAAGCCATTGATC	52	60.67
AGATCAATATGAGTCTGTAGATTGGAGA	1125	56.88
AGATCAATATGAGTCTGTAGATTGGAGA	777	56.88
AGATCAATATGAGTCTGTAGATTGGAGA	453	56.88
CGACGATAATAACAGACAATCTACCACA	3311	60.44
GGAGCAAGTTAATCTGTATTGGTCA	749	57.51
GGAGCAAGTTAATCTGTATTGGTCA	658	57.51
AATGAAGACGTGGTGAACCTATTGTG	185	58.18
GTGGTGAATTATAGTGCGGCAA	202	58.63
ATTATTGGATACCGAGCGATGA	911	57.24
TATGGTCAAGAACAATGCGAGT	1431	56.03
AACCGAATGATGGCTTGGAT	1430	57.92
TGGTTCATTGCTCATTGCC	352	58.3
TGGTTCATTGCTCATTGCC	363	58.3

GACTTCTACTCGTCTCTCTCGGAA	64	57.13
CCTGTGGTGTCTGTGAATGGA	398	58.94
AACGATACGGTGGTGAATACG	2951	56.17
AGGATACGTCTATGAGTTGGCAACT	414	58.35
AGGATACGTCTATGAGTTGGCAACT	414	58.35
GCAACCATCTCACAAGTTCCAT	686	57.65
GCAACCATCTCACAAGTTCCAT	686	57.65
CATCGCCACTCTTGTCTTCTATC	1031	56.77
TATGCTACAGGAACAAGTGCTCTC	57	56.58
GGATTCTGGTTGCTGTTGGA	234	57.17
AATAAGGAGCTGAACACAAGTAGGA	1468	56.57
CGAGAACATGTGAATCAGTCGGA	409	60.98
CCACCTCCTTCTTGTATGCG	840	56.9
AATCAACACTATCAATCATGATGACA	276	56.31
AATCAACACTATCAATCATGATGACA	276	56.31
GGAGCGACTTGGAATCTTGA	695	56.52
CAATAATTCTACAAGGATTGATGCC	40	56.98
CGAGCCAGGATTGAGAATACAAC	49	58.76
GGCGCTCTCTGGATTCACT	371	58.08
GGAACGAAGACGCCAAGACT	346	57.99
CTGCCTATGAGCCAGGAAGA	241	56.71
CTCCACCGAAGCATCGATAC	35	56.83
GCTCGACTCCACCGTCATCA	344	60.79
AAGAGGAAGTCAATGGAGAATCG	111	57.53
TTCCTGTTGGTCGCCATCAC	94	60.47
TTGTTGCAGACGACAACGATG	1104	59.33
TTCAATGGCTGCGTCTGCTC	78	61.03
GTCAGCAATCTTCCACTTCCA	499	56.44
AACAAGAGCAGTATCGGAACCA	5244	57.49
CGGATGTTGAGCACCACGAA	377	61.59
CGGATGTTGAGCACCACGAA	370	61.59
AACTGAACACCTTGCTGCGTCT	68	58.96
TCAAGAGAAGCGAATCAAGAAGA	430	57.14
TCAAGAGAAGCGAATCAAGAAGA	345	57.14
AGCACACACAGAGGTTAGAGAGACG	66	59.99
GCCAACAAGAGCTTCGACATG	108	59.46
ATCAACTTATCAGCAGCAGCATT	1442	56.89
ATCAACTTATCAGCAGCAGCATT	1519	56.89
ATCAACTTATCAGCAGCAGCATT	1400	56.89
ATCAACTTATCAGCAGCAGCATT	1321	56.89
ATCAACTTATCAGCAGCAGCATT	1519	56.89
CCGAAGTTGGTCCAGATCGA	586	59.62
TTGACACACTCATTGGAGGAGCT	111	59.75
TTGCAGATCCTCCAGTCATGT	727	56.77

CACACCTCCACACTATGACGCT	525	58.74
CACACCTCCACACTATGACGCT	464	58.74
TAAGAATGAGCACGAGCCAGT	215	56.35
GATTACATTCCACCAGAGATTCAGA	651	57.36
ATGATGATAATAGTGCGGTTCCA	1197	57.17
TGGCGTCACACATAACAATCG	208	57.57
TTGCACAGAAGTCACTGGACAG	210	57.6
GTCTGGCTGGCTGTGTGTGT	32	58.32
CAGCAGATACACCTGACGATTG	3961	56.99
ATCATCATCCACATCAGCAGCA	1067	60.07
ATCATCATCCACATCAGCAGCA	1142	60.07
ACGACAAGACTACCACGAGGCA	994	60.67
GATGCCGAACCAAGGACAAC	1466	58.98
TATCCGAACATTCCAAGCGT	422	56.78
TATCCGAACATTCCAAGCGT	173	56.78
AATCAGTTACGAGAAGAAGAGGCA	770	57.45
AATCAGTTACGAGAAGAAGAGGCA	770	57.45
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TTCTTCGACATTCAACATCTGCT	174	57.62
TTCTTCGACATTCAACATCTGCT	270	57.62
TGCAACAAGCTAGCCGTGTC	609	58.67
CTGCGTTGGCTTACTTGCTT	79	56.97
GGACAGTTAGGACGCAGTAGTCG	1012	58.96
CCTGGACGAGTGCGACAAGA	590	60.95
CCTGGACGAGTGCGACAAGA	590	60.95
GCACTGACTACCACAGAACCATC	1025	57.33
AACCACTTATCTTGGAGTAGATTCG	727	56.02
AATGATAAGAGAAGGAAGGAGAGAGA	1841	56.35
CTACGGATATTGTTGTGTATCTCGGA	1701	59.33
AGAGCCACCACACTGTTCCA	124	57.72
GCATCGTCATCCTGTCCTTC	72	56.68
GCATCGTCATCCTGTCCTTC	27	56.68
AACTGCCGAGCATTACGAA	1113	60.35
AACTGCCGAGCATTACGAA	1113	60.35
TGATGATGATGAGAGTGATGAGG	1308	56.25
GAGTATTGTTCCACTTATGAGAGACGA	569	58.06
TTACAACAGTTAATCCGCAAGTAGC	635	57.77
AGTCGAAGGCACGGAGTATG	424	56.49
ATGATAATGGAGCAGAAGAGAATGTC	1176	57.96
TATCTTCGTCTCACCTCACTCGGA	474	61.06
TGGCATTGAAGAAGAGACACAT	1975	56.02
CTGTAGCCGTTGTTGGTATTGC	701	58.32
GTCACCTCGGAGTTGGTCAATATGTAAC	674	61.06
TTCTACAACCTGAAGCAAGACTCCA	500	58.31

TTCTACAACCTTGAAGCAAGACTCCA	446	58.31
TTCTACAACCTTGAAGCAAGACTCCA	500	58.31
TTCTACAACCTTGAAGCAAGACTCCA	446	58.31
CATACTCCGTATATTCTTCTCACTTCA	652	57.34
GAAGGAGGAATGTTATCTGGTGTT	880	56.47
TTATTAATCACTCGTGCCAACT	2091	56.58
GAAGGAGGAATGTTATCTGGTGTT	880	56.47
TTACTATGTTGCCGAAGACGATC	156	57.11
GATACCAACAACAACCACAGCA	82	57.14
CAGTTCAGTCTTGCTGCGGAT	115	59.08
CGACGGCTATCAGAAGATGTC	1210	56.13
GACGAATCCTAGTTCAAGCACAT	369	56.22
GACGAATCCTAGTTCAAGCACAT	366	56.22
CGATAA CACTACGCACACGCT	45	57.62
CGATAA CACTACGCACACGCT	47	57.62
GAGAGCGGTGGCAAGAGGTG	260	61.83
TTCCACTTACAGTGTTATGTGTTCTCA	595	57.95
TCTCACTGTTGCTGATGTTCCA	196	57.95
TCTCACTGTTGCTGATGTTCCA	322	57.95
TCTCACTGTTGCTGATGTTCCA	293	57.95
AATCGTCCAATGCCACAATG	87	57.88
TTGATGATGATGGAGAGTATGAGTG	329	56.88
TTCGTATCAATGGTGGAGTGC	1092	57.15
GCGTCGTCAAGGACCAGATG	124	60.23
AAGCGATGTCGGCTCACTGA	28	60.51
TTATTCTTGCTAGTCTGGCAAGCGTA	89	61.37
GCTAACAATCTGGAAGTCACGGT	95	58.32
GAAC TACCGTCAGTGCTCCAA	2439	56.54
AATTCGTGTAGTTCTGGAGGAGTT	636	56.32
CATCCTGCTCCGATTACTGC	9746	56.98
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CATCCTGCTCCGATTACTGC	9752	56.98
CATCCTGCTCCGATTACTGC	9752	56.98
CATCCTGCTCCGATTACTGC	9758	56.98
CATCCTGCTCCGATTACTGC	9758	56.98
CATCCTGCTCCGATTACTGC	9752	56.98
CATCCTGCTCCGATTACTGC	9752	56.98
AAGCGAATTGTGCACGGTGA	104	61.17
AGAAGTTACCACAGCACAGCCA	175	58.52
TATGAATGTGATGTTGATGGATGC	1480	58.31
GAGATTGTCAAGATTCCAGATTCTG	151	57.9
GCTGACTGCATCACACACATG	198	57.26
GGTGGAACGACTGGTGGATA	112	56.88
GATGATGAATGCCTCTCCGA	78	57.2

GGACACCAGTGATAATGATACTTCGT	274	58.44
GGACACCAGTGATAATGATACTTCGT	240	58.44
GGACACCAGTGATAATGATACTTCGT	131	58.44
GGACACCAGTGATAATGATACTTCGT	129	58.44
GGACACCAGTGATAATGATACTTCGT	131	58.44
GGACACCAGTGATAATGATACTTCGT	131	58.44
GGACACCAGTGATAATGATACTTCGT	175	58.44
TTAGACAATGAGAATCTGGTGACACT	1377	57.13
TTAGAATGAGTTCCGACGATGAG	99	57.14
CTTCAGGCAGCACTTCTCACT	1296	56.01
TGAGGACACTGGTAGTACTGCTGATTG	142	61.64
GAAGCCAAGACGGTCATCTG	144	56.91
TGTGAACATTGTTATGGTGAATAGTACA	3158	57.68
GAGGTCGCCAAGTCCAAGGT	221	60.07
GAGGTCGCCAAGTCCAAGGT	299	60.07
TTGAATGTTATGAAGATGAGACAGATG	283	57.51
TTGAATGTTATGAAGATGAGACAGATG	439	57.51
TTCAAGATTAGGATGTTCCGGAGA	871	56.65
GCTCCACCTTCGCCATTCTG	51	61.61
ATCAGAGAAGTCAAGCGAGTGG	2122	57.29
AAGTGGAGAACAACAATCAACAATC	175	57.33
TAATGATGTTCTGTTCCGAACAGTTCA	234	61.74
TGCGTCGTTCTTCTATGCG	64	60.86
AACATACTCACGAATCCACCGA	1654	58.05
AACATACTCACGAATCCACCGA	1496	58.05
AACATACTCACGAATCCACCGA	1636	58.05
TAGATGGAATAGCGGACGATGAAG	2012	60.38
TAGATGGAATAGCGGACGATGAAG	1868	60.38
TAGATGGAATAGCGGACGATGAAG	1958	60.38
TAGATGGAATAGCGGACGATGAAG	1814	60.38
TCATACAATCCGAATCAATCATACTG	1684	58.04
AGAGACGCTGGTGGATTCA TTG	1818	60.08
ATGATCTACTCGTCACTGACACGT	24	56.53
AGAGACGCTGGTGGATTCA TTG	1823	60.08
AGAGACGCTGGTGGATTCA TTG	1782	60.08
AGAGACGCTGGTGGATTCA TTG	1792	60.08
GTCGCCGCAGATAAGGATAC	74	56.05
GTCGCCGCAGATAAGGATAC	93	56.05
GTCGCCGCAGATAAGGATAC	83	56.05
GTCGCCGCAGATAAGGATAC	21	56.05
GTCGCCGCAGATAAGGATAC	49	56.05
ATGTGTTGTCGCTTGGTCTGTT	804	58.24
TTCTGCGTTGTTATGGTTGCT	135	57.07
TTCTGCGTTGTTATGGTTGCT	135	57.07

CGGCTTACGATTCTTGTTCTATC	29	56.04
GCAGGAAGTTGAAGAAGACGAT	662	56.35
GCAGGAAGTTGAAGAAGACGAT	665	56.35
ATCGGCGTGTACTCGGTCCTT	62	61.69
TTACAAGTGGCGGAAGAGTTAGAC	1349	57.74
AAGTGCCACCAGTTGCTCCA	980	60.26
AAGACAATGAGACACCTGTGAAGA	1171	56.62
TACCTGCTGATGATGTCAACGC	484	59.73
TACCTGCTGATGATGTCAACGC	482	59.73
CTTGAGATACTGGATACAGCAGGAAC	298	58.46
GCTCGGTCTGTAGATTGTAGGC	28	56.78
TGACGATTCTATGGAAGCAACTC	433	57.14
TTGCTGACAATGATTGCCTGA	119	58.86
AAGAAGGACACTTCAATTGTCGA	1025	56.66
CACTGCTCCTGACTCCGAAT	749	56.5
GTTGTCGTTGTTACTTGCGTGA	219	57.49
GTTGTCGTTGTTACTTGCGTGA	248	57.49
AGCAACAAGGATGGATCACG	610	57.2
TGACGTTCGTGGAAGTGGAG	1963	58.29
AAGGAAGAGTACACGGTGCGT	39	57.48
CGCCTGGAAGTCGGAGTCAC	647	61.7
CTCCTCATCCAGAAGCACATCC	360	59.66
GGAGAGCATAATGGCTCAGC	478	56.19
GGTTATCCATCAGAACAGAGGTG	527	56.34
GGTTATCCATCAGAACAGAGGTG	488	56.34
TGTGGAAGATGAGGAGGATGAG	687	57.79
TTCAATACAAGGCTCTAACTCAACA	280	56.16
CCGACTCTTGAGAAGGAGCA	110	56.79
TTCATTGACTGTTAATCAGAACCATG	1183	58.18
CAATGGATGGTATGAATGGAAGT	166	56.5
CAATGGATGGTATGAATGGAAGT	166	56.5
AAGATTCACCAAGAGTTCGAACTAG	82	56.2
GGAAGGAGCCATGTTCTGTG	247	56.75
AAGAAGTGATGGATGTTGATGACCT	268	58.92
CAGCATCATGTGGTTCAGCA	465	57.79
CAGCATCATGTGGTTCAGCA	896	57.79
CAGCATCATGTGGTTCAGCA	119	57.79
TTGTTGCAATTGTGTGCTCTTG	624	58.48
CGGAAGTACCTGAACACGAAGAATG	595	61.9
CCAGATGAAGGAGTTGAAGATGT	454	56.07
TATGGTCACGAATAATCTGTTCACCT	523	57.01
TATGGTCACGAATAATCTGTTCACCT	882	57.01
TTACGCAGGACCATATCAAGC	688	56.52
CGATGGAGAAGAAGATGACTGTC	71	56.63

CGTATGTCATCTCCTGTTATTCCG	436	58.57
ATGCCGTCAGTAAGAAGTATTGAAGA	84	58.5
TATGTGTGTCTGATGGATGGAAC	1154	56
CTAAGAGCATGTAATGAACAAGCG	1839	57.05
CTAAGAGCATGTAATGAACAAGCG	1811	57.05
GAAGTTATACTTGATGCTGGTCACA	238	56.28
GATTAATGAGAACACGATCAAGAACTC	410	57.61
AACTATGTGCCGAACCTCCTCA	276	58.9
TAACGGTGTTCTTGCGAGA	3305	57.96
GACATGATGCTCAGGAATTAACTCA	199	58.33
GCATCAACCACTACCAATCAGA	149	56.3
CTTCTTGAGGATGATAATACTGATGCT	74	57.33
GCATCAACCACTACCAATCAGA	149	56.3
CTGGCAGAGCACAGAAGACA	139	56.25
TTGATGATGAACTCGCTTGTTGT	1251	56.95
TTGATGATGAACTCGCTTGTTGT	1251	56.95
TTGATGATGAACTCGCTTGTTGT	1251	56.95
TTGATGATGAACTCGCTTGTTGT	1251	56.95
AGGTGGCTACGACGGAGAAC	463	57.87
AGGTGGCTACGACGGAGAAC	549	57.87
TGCTGATTCAATTAACATGTATTCACA	173	57.19
GTTGGTGCTGGATTCATATTGTC	72	57.11
CACTTCCACCATCAGAGCCA	495	58.24
AAGAAGACGATCAGCAGCAACA	50	58.73
AAGAAGACGATCAGCAGCAACA	50	58.73
GGTGCCACGAACTTCTCCGT	873	61.02
CCAATCAAGACTACGAAGGAGCA	198	59.37
CCAATCAAGACTACGAAGGAGCA	152	59.37
CGTATCTGTGCTCCTTGCTCTT	137	57.4
GGACGAGACTGCTGTTGACG	2224	58.03
GGACGAGACTGCTGTTGACG	1378	58.03
GGACGAGACTGCTGTTGACG	1105	58.03
CGTGTGGAAGAGAGGTCATTG	1403	56.84
TGAAGATGACGAATTATCCTCTGA	301	56.66
AATCGCTCAGCAGATCCTTATCG	212	60.63
TCAGAGTATGGAGACGCCGAA	372	59.41
AACAATGTCCTTCGAAGATCTTG	40	56.19
AATCGCTCAGCAGATCCTTATCG	399	60.63
AATCGCTCAGCAGATCCTTATCG	178	60.63
GTGATGCCAGGTACACTGACG	71	57.68
TTGTGATGCCAGGTACACTGA	45	56.2
ACTTCAGATTCAGAGTATGGAGACG	92	56.85
ATTCCATTGCGATGAGGCTT	88	58.21
CAACATTGGCGTATCAAGGAA	490	57.25

AATTCACGGTCCACGCTCAA	1561	60.07
AATTCACGGTCCACGCTCAA	1506	60.07
TCTGACAACTAGGACTAACGAGGA	359	56.05
GAGAGCAGTGAGCCAAGAACA	600	56.86
AATGATGCTACAGATATTGCCTGGA	376	59.84
GTTGAGGCACACACACTCTGAA	83	57.44
AACTGGACGACGGAGACAAC	82	56.24
AACTACTGGCTTGTTATTGTATCAG	400	56.09
AACTACTGGCTTGTTATTGTATCAG	437	56.09
TATGGATGCGGAGGAGATTG	296	57.17
TTCATTGTAGTGTCAGTGCTCATAC	218	56.35
TCAACGGAGCCTGTAAGAAGA	489	56.32
AATTGCTGCTCTCGCTGAGA	241	57.54
ACCAGAACTTGACAATTGCTGA	237	56.09
GCTGTTGACGGACTCTACTCG	1079	56.29
GTTGACGAGTATCTCCACAATTCATC	580	60.1
GAACAGGCAACTCCACAAGG	981	56.82
CGAGAGTTACCAAGCTGAATACGG	37	60.12
GAGTAGGCAGAATGATCGCACA	1011	58.94
GAGTAGGCAGAATGATCGCACA	1059	58.94
GAGTAGGCAGAATGATCGCACA	99	58.94
GAAGGACTATCAGTTGTCGTGGAT	34	57.35
GTAGGTGAATTGAAGAGTATGCTTGT	176	56.08
CTACACAATGGATTGAGAAGTCTTACAG	540	57.73
CTTCAACATAGTCACTCGCCAGT	869	57.19
CTTCAACATAGTCACTCGCCAGT	791	57.19
TTGCTAATCGTGCTTGCTCA	1031	56.88
TTGCTAATCGTGCTTGCTCA	1025	56.88
CGACATTATGGAACAGTGGCA	230	58.1
ATGTCGTTGACTAATTCAGGTTCA	24	56.52
CAACAATGGAAGTTCACATCAAGT	356	56.84
ATGCTCGCTTGGCTGGCTTA	1539	61.82
AAGTTCGATGACGTGATAGACTGG	33	58.34
GCAACTTGATCAGCAGTGTGAA	59	57.62
CGATGAAGCGAGTTACACGGT	79	58.85
CGTGGAGATATTGGAGCAAGC	401	58.41
TTGAATGATGAAGTTGGAGAGTCG	309	59.24
TCATACGGCTACGCTGTTGC	1298	58.55
AACGGATTCAATCAGCCATCT	3018	57.22
TCCGATACCGACAGCGAACA	104	61.13
TGATTGAGGTTATTGAGGATGCC	276	58.93
TGTAATGCTCATCAAGAAGTTGCTAA	299	58.27
GAGTCTTCAGTTCCGTGTATTGG	476	56.54
GAGTCTTCAGTTCCGTGTATTGG	607	56.54

GAGTCTTCAGTTCCGTGTATTGG	476	56.54
GAGTCTTCAGTTCCGTGTATTGG	607	56.54
CCAAGGCAACATGAACAACA	190	56.61
AGCCATATCAGATCCTTACATTCCTG	112	59.73
GAAGTTCGGTTATTCCATCAGC	577	56.51
AATGGTGATGGAATCGGAATC	34	57.25
AATTCCATGTTACATCACAATCTTGTT	555	60.8
CTAATGATCTCCACGGATAATGTTAC	747	56.18
GCCATTCTTCCACAACCTCTTCCT	424	59.6
GCCATTCTTCCACAACCTCTTCCT	424	59.6
ATTCACATTGTCCGAGAACTTGTC	337	58.18
ATTCACATTGTCCGAGAACTTGTC	314	58.18
CATTCGGAGAGGATGGATTCC	820	59.31
GGCTGCTCTCAACCAATCACC	645	60.59
CATTCGGAGAGGATGGATTCC	644	59.31
CTGGTATCCGAAGTTATGATATGTTT	336	56.18
AAGAAGCGGATGGCAGTGTC	932	58.88
GCGTGAGAATCCGTCTATTCAGGT	300	61.57
CGTGAGAATCCGTCTATTCAGGT	293	58.28
TTCCATCTCATCCACACTCTAGTCTT	84	58.4
CCATCATAACGTCATCAGGACA	28	57.02
GCACCATTGCACATACACACA	61	57.49
GGCACAGAAGTGGATGGATGG	164	61.23
AAGAGCCGACTCTTCCTCTTCT	88	56.68
TTGAGCAGTCGAGCAATGCC	99	61.03
GCGTGCGTGTACATGTCAGTT	198	58.32
GTGTTCTATCAGCACTTGGACATG	589	57.43
CTGGAATCAGTTGGAACACGCA	649	61.89
CTGGAATCAGTTGGAACACGCA	649	61.89
CGGAGCAAGTGAGCAGTGAA	27	58.75
CGGAGCAAGTGAGCAGTGAA	27	58.75
GGAGATACGATCACAACAACAATG	27	57.18
TATGATTATGAAGGAGATGAGGACGA	209	59.03
TATGATTATGAAGGAGATGAGGACGA	326	59.03
TATGATTATGAAGGAGATGAGGACGA	326	59.03
GGAGATACGATCACAACAACAATG	654	57.18
CCTCTTCCGATGGTATTCCTTG	130	58.57
TATGATTATGAAGGAGATGAGGACGA	209	59.03
CTGGAATCAGTTGGAACACGCA	649	61.89
CTGGAATCAGTTGGAACACGCA	649	61.89
TATGATTATGAAGGAGATGAGGACGA	209	59.03
CCTCCAGATACAGAACAACAAACAGA	1844	56.88
GTTTCATTGGCATTAAACAAGCAG	1172	56.16
TTCTAATTCAGGAGATCTGATGCTTC	65	58.18

TGGTCTCGCACGGATTGATG	907	61.57
TGCTTATCCAGGACAACCAGGA	829	60.43
AGCCGAGAACGAGTCAGAGA	278	56.37
GCAAGCACATCCAACACACC	403	58.58
GCAAGCACATCCAACACACC	462	58.58
GCAAGCACATCCAACACACC	345	58.58
GCAAGCACATCCAACACACC	235	58.58
GCAAGCACATCCAACACACC	341	58.58
GCAAGCACATCCAACACACC	519	58.58
GCAAGCACATCCAACACACC	223	58.58
GATCCATCCTGTTGCTCACAC	92	56.6
TGGAGCAAGAGCATGAGAAGA	835	57.37
GGCTTCTGGATGTCGTCTTACTAC	706	57.21
GGCTTCTGGATGTCGTCTTACTAC	314	57.21
TCATCTACTGATAGTGAGAGAGCAAGA	2200	56.86
CCATACTGTTTCGTCCGTCTCTC	338	57.41
GAAGATTGGATTGAGCAAGTCAC	275	56.59
TTCGTGTCTACAACATGAGATTCTG	98	57.14
ACCAAGTGGACAAGCGGAGAA	364	59.28
ACCAAGTGGACAAGCGGAGAA	428	59.28
ACGGCTTCTCTCTGTGTTGTTG	57	58.12
AACTGACACTGGAGGCGGAA	54	59.28
TCTTCTCATTGCGAGTCCGT	36	57.07
AACTCTTGCAACTTATTGTTGAACTTAG	39	56.88
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CGAATTGATTATTACGAGAATAACTGTT	716	56.58
CGAATTGATTATTACGAGAATAACTGTT	631	56.58
CGAATTGATTATTACGAGAATAACTGTT	716	56.58
CGAATTGATTATTACGAGAATAACTGTT	631	56.58
CGAATTGATTATTACGAGAATAACTGTT	716	56.58
CGGCTGGAATTGGAAGGATT	50	59.85
GTTCGGCTGGAATTGGAAGG	47	60.38
CAGTGTATGGAAGAATGTGTGAAGA	538	57
GATGGATGAGGTGTCTTCTTGTG	386	58.62
CCGGACGGCATACTAGACC	922	60.29
GATACGCTCCTTATGCACCTG	1074	56.13
CCAGGAGGATGCTCAATGTG	117	57.68
CGCTGGATGGACTACTCCTCAA	192	60.21
TGACTCCACCTGAAGAACCTG	119	56.39
CAATCAGAAGTATCTTGTGAAGTTCC	85	56.42
CTTACCTTAGCCTCAGCTTCATATCCA	90	61.09
GTTATCAACAGGTGGATGACACA	401	56.07
TCATTGTGATTCTGGCAGTTCC	743	58.63
AGAACCATACGGTCTTCTCCA	106	56.47

ATCCGTTGGTTGGTCTATTGG	449	57.4
ACATTGGAAGAAGTGCCTCTGGAT	115	61.12
AATGGAACAAGACCAAGAGGACA	419	58.61
GCTTCGTCGACTGCTCAATC	357	57.22
TGGCAGAGAAGATTGATGAGACA	456	58.53
AAGCAATGTGTGGAGGTGAATG	416	58.56
TACAGGTGGTGATAAGAAGAAGA	397	56.56
CTGTACTGTTTCATGATCTTATAGACGGT	530	57.22
AACTGACCACTCTGCTAATGTTGA	305	56.76
GTTGGCATGGTTCGAGAAGT	516	56.3
TTGTGTGCCTTAGCCTGTCTG	379	58.52
TGGCTCATAATATACATCTTCTCCG	345	58.67
TGACGAGTACCTGCTGCTAAGTG	160	58.35
AACCTAGAAGTTCTGTATCTCTGCGA	57	57.97
CGGATCTGTTTCACAGAGTGCT	646	56.58
GACGCTCGTGTTCTCTCCAGA	661	59.96
GACGCTCGTGTTCTCTCCAGA	674	59.96
TGAACTGCTGTTCTCGAAGGT	56	56.26
GACGCTCGTGTTCTCTCCAGA	610	59.96
AACACGAGAAGATGATGGAGACG	138	59.23
CGATTATTGAGCAGCGGACT	294	56.69
CTGAGCAATGTCCTGTTCCG	254	57.89
CTGAGCAATGTCCTGTTCCG	331	57.89
CTGAGCAATGTCCTGTTCCG	306	57.89
GATCATCTCGCAGTACATGCCAT	871	59.95
GAAGTCCGTCGGAAGAGCTC	341	57.66
AATGGAGATAACCGTCAGTTCAAG	303	57.43
TTAACTGTTGAGCAAGCAAGTCA	248	56.59
AAGTATGTTCTAGCCTTGAGGAATG	310	56.15
GCCAGGACGAGTGTAACGAT	260	56.33
TCTCTTGAGTGCAATTCGAGATG	76	58.2
CGATCTACATTGATTGGAAGATACG	187	57.82
CGGTTGAAGATAGTGTGAGACATTG	99	58.74
CTTGATTGAGTTCGCACACTTGT	937	58.05
CTTGATTGAGTTCGCACACTTGT	943	58.05
AACATCTCCAACCTCCATCAACAGG	219	60.21
AACATCTCCAACCTCCATCAACAGG	481	60.21
CCGACTACCGATGGTGTAGAGTA	68	56.97
CATCAGAATCTACGGCAGCAAT	856	57.97
TTGGACGAATAGTGGAGAATGG	535	57.67
GAGACTCACTGCACTGATGTCTG	62	56.22
TATCAGCACTTCGTCATTACCAGA	1083	57.59
TATCAGCACTTCGTCATTACCAGA	1083	57.59
CTTAACTTAATATTCAATAAGGCTTGGC	55	57.49

ATATTCATCAACCTGTGTGAGGATGG	96	61.08
ATGACAGCTTCTTCTTCCTCGTT	156	57.36
GGAGCATTCTGGTCATCACAA	621	57.18
AACTGTTTCGGCGTAATGGTC	51	56.3
GAGGAGGCATCGGATGTGTA	188	57.13
AGAGAACTAGTATTGCTGCTCCTGAG	678	57.77
AGAGAACTAGTATTGCTGCTCCTGAG	832	57.77
TGGCTACTGAAGAGGCACCTCC	79	59.48
AGGTCTCGTTCTGCCTCTGC	2160	58.22
GTCGCAAGTCATTGTTGTAGGAG	70	57.56
CGTGATGACGACAGTGGAAG	432	56.22
CGTGATGACGACAGTGGAAG	419	56.22
TGGATCATGAGGATATTCACAAGA	1569	57.18
TGGCAGTGGACAACCTTCAATG	325	58.21
GTCACGATAGAACGATACTTGGC	446	56.61
TCTGAAGATCAACAAGAATCGGT	463	56.6
TCTGAAGATCAACAAGAATCGGT	463	56.6
AACACCATCGCCTTATTCCA	812	56.63
CCGTATCCAAGATATGTCCGA	216	56.16
CTTGCCAATGACATATGGAAGTG	167	58.12
GCCAAGAAGTTGTATATTACTAACGAGA	1202	56.77
AGACTCGTTCCAAGACTGATGC	2176	57.14
AGACTCGTTCCAAGACTGATGC	2187	57.14
GACCAAGAGCATCACATTCATCG	219	60.45
ATTCAGTGTCTCCAACAACGG	2101	56.23
ATTCAGTGTCTCCAACAACGG	2227	56.23
AGATGTCTTGAATAATAGTGACGATGA	176	56.37
TTCCTTATCCAACCTCTTATCATCC	221	57.71
ATTCAGTGTCTCCAACAACGG	2011	56.23
AGGAATCTGTTGAGTGGTTGTGC	1256	59.14
AGGAATCTGTTGAGTGGTTGTGC	1256	59.14
ATTCAGTGTCTCCAACAACGG	1873	56.23
TTGAATAATAGTGACGATGAAGAGGA	182	57.19
AACACCTCGTCGTCCTCCTC	21	57.77
GTTGAACGAGAATGATGATGAGTTGG	69	61.78
CTGACAGTGTCGGAATTGCCA	52	60.65
CCACTTCTTGTATATATGACAAGCATT	51	56.03
CAACTACACCAGCCGATACACTT	416	57.03
ATCCTTACCTTCCACCAATCCA	38	58.31
TTATTAGACAACAGCAACATCCA	928	58.29
GATACTCCACGGCTCCACTG	131	56.79
TCATCATCCACACCATCCAA	653	56.62
CACAATACTTCTCACGACGCTCT	1150	57.33
CACAATACTTCTCACGACGCTCT	1195	57.33

TTGGATGATGATGATTGTTGTCG	607	59.27
ACGAAGAGTGGAGGTTATGCG	242	57.95
TGGCGACTACAACAAGGAAGAAG	228	59.41
TGGCGACTACAACAAGGAAGAAG	228	59.41
ATTGATGAACCGAGAATAGGACA	349	56.39
CTATACAACCTTGATGTCTGCTAGATTCC	1067	57.03
ATTCCAACAGTACCTACCAGACATTC	620	57.7
GCGTAATGGCTACCGGCTTAG	674	59.73
GTAATGATGATGTGATATTGTGGCA	29	57.47
TTATCAGTTCTGCTACAACAATGCTT	160	57.44
CCTCAGTGTGCGATGCGCATT	70	60.77
AGTTACAGGCGATTGATGTGAC	225	59.14
TTGGAGTCTTCTACGCATTCATC	964	57.14
TTGGAGTCTTCTACGCATTCATC	970	57.14
TTGGAGTCTTCTACGCATTCATC	956	57.14
ACCTCCGCCAGCTTATCCAT	193	59.52
GCATCACACGCCAACATCAAC	2200	60.93
GCATCACACGCCAACATCAAC	2282	60.93
ATTACCACGACTACTATGACAACCAC	902	56.5
GGAAGCACGACGAAGCTCATAG	139	59.99
ACCACAACTGTAGCTCCAACAACAAC	452	61.44
GAAGAAGTCATACAAGAAGGAAGGA	242	56.19
GAAGAAGTCATACAAGAAGGAAGGA	242	56.19
CTGCGTGTCAACCATCAGGAAG	1387	60.27
GCAGTTATCATGGAACAAGTGACC	540	58.56
GGTAGAAGATCCAGCCAGTCG	2732	57.49
GATGTCGTCCGGTGGATCAC	161	59.76
ATTGTCACTCACGCCAAGGAG	145	58.8
GCCAGCTTCACATCTAATTGC	493	56.25
GCCAGCTTCACATCTAATTGC	646	56.25
ATTGTCACTCACGCCAAGGAG	145	58.8
TCAACGAGCAACAACCTCCAAC	62	61.01
GCCTGCTCACAATGTGCTCA	325	59.57
CAAGGCGGCAATTCTCAAGT	220	58.91
GCAGTCGCCAACTATAACTATCCA	404	58.41
GTCAAGCCGTCGTCGTCTGT	196	59.88
CGCCGCTTATTCACATTACTCC	62	59.6
TTGAAGGATGGTTCAACATCC	269	56.03
CCACAACAACATCATACATATCATCA	659	57.4
ATGATGAACTACTCAGTTGTTCTGCTA	102	56.64
GACAGCGAAGAAGAAGGAGGCA	387	61.8
GACAGCGAAGAAGAAGGAGGCA	407	61.8
CAACTCCAACGACTCCAACG	870	57.79
CGTCCACAACAACAACCACA	852	57.42

CGTCCACAACAACAACCACA	852	57.42
CGTCCACAACAACAACCACA	852	57.42
CGTCCACAACAACAACCACA	852	57.42
TGTTATTGTTCTCTCCATCTACATTCTC	439	57.25
ACCTACAACCTTCTACTTCAACTCCTACA	927	56.37
GCCTTCTCCACCACTTCCAC	769	58.17
GCCTTCTCCACCACTTCCAC	769	58.17
TTATGGAAGTCACCTTATCAATACGG	1048	58.48
TCTGAAGTTGTATCTGTTGATGGAC	840	56.14
TCTGAAGTTGTATCTGTTGATGGAC	839	56.14
AATGAAGAAGCGTGAGTTGA	122	56.16
CTACAAGGATGGACGCCGAT	57	58.61
AAGAACAACGACATTGCCACA	260	57.73
AAGAACAACGACATTGCCACA	392	57.73
AAGAACAACGACATTGCCACA	351	57.73
CAGTGGTATTAGGTAAGGATTGGAA	112	56.59
ATCAATATCAGTAGGACGACACACC	83	57.2
GTTCCAACAACCGTACTGTCTTA	1940	56.86
GGCCGACAGATCAACGAGTT	366	58.74
CTTGGTCTTGGTTCCTGGCA	530	59.66
CATATTCTCTGCTTGATGTATTAGTTCA	188	56.27
TTACAAGTGAATACAATGAGCCAAGC	717	59.58
CTATCAGGCTTATGTATATTAGAAGGA	318	56.68
ATGACACTATGGCGGAGGAA	630	56.67
TATTATGAGTTGCAACGGCAGGAA	519	61.52
GGAAGAGTGATTGATGTGTGTTGG	162	58.48
AGAACCGCCTCAGAGAGATGGA	77	61.18
TTATTATGATCGTGTCGGAGTATAGG	912	56.66
CAGATGATCGTATAACTATTGACGGATT	962	58.87
CAGGTTACGCTGAAGAATAGAATCTC	1686	57.86
AAGATGTAGTTGTGCGGTGAA	395	56.1
AACTACGCCAGGAACACCATC	1308	57.66
TGACAACAACCTACGCCAGGA	1300	56.35
CGTACCGCTGATCAAGCAGAC	639	59.48
CAGTTCAGGATGCGGTTAAGGTT	933	60.32
AACTCCATTGTTACAAGACATGCC	233	58.13
CCATGCACCAGAGAACGGTT	164	59.55
AATGCGGTGAAGGTTAAGAAGG	898	58.31
TGTCAATTACGACGGTCCAA	756	56.09
TTGATGTGATATATGTGCACAAGAAC	515	56.89
TTACACTTCTCCAGCAATTCAGTT	233	56.02
TGTTCACTGTCTACTCAAGGTCGGA	919	61
ACAGTCAACAAGATGATCGGTCA	1455	58.17
ACTCGTATGACAAGAAGCAATGG	283	57.08

ACTCGTATGACAAGAAGCAATGG	305	57.08
CGGTGATTACATTGGACGAGA	310	57.16
TCCACGACAACAACGACACC	119	59
AAGGAGACGACTGTGCGTTCA	601	58.38
AAGGAGACGACTGTGCGTTCA	601	58.38
GCTCGTTGATTGCCTGGAAG	698	59.4
TTGACAACACTCTACAAGGACTCAGA	421	58.19
CTCCAGAAGTCCAACATCGCT	76	58
TCGGAGCCAACATACACAATC	403	57.15
TCGGAGCCAACATACACAATC	275	57.15
TCGGAGCCAACATACACAATC	275	57.15
TCGGAGCCAACATACACAATC	225	57.15
AACCGTGTAACCTCAGATGCCA	949	56.82
GCACTTATTCAGGAGACAACGC	35	57.63
AACCGTGTAACCTCAGATGCCA	943	56.82
AACCGTGTAACCTCAGATGCCA	628	56.82
AGTCGGCACCTCGTCAATCAG	39	61.16
ATATTCTCAATTCATCAGAGCGT	49	57.06
ATTGATTGGGCTTCTGCTGA	891	57.11
ATTGATTGGGCTTCTGCTGA	720	57.11
CCAAGTCACAGAGCACATCATC	1242	56.85
ATGTCACTGGTGTCAATGATCTATG	599	56.68
CGCTCTTCATCGAGATTATCCA	1001	58.04
GGACATTCAAGAGGTGGCGAA	488	60.94
CCTGATGTTCTTCTCTACAATAGTGTTG	387	57.73
CCTGATGTTCTTCTCTACAATAGTGTTG	370	57.73
CATACTTCGCAACCACAGACTC	77	56.12
CCTGTCGTACACCACTAATATGCTC	664	57.88
CCTGTCGTACACCACTAATATGCTC	978	57.88
CCTGTCGTACACCACTAATATGCTC	680	57.88
CAAGTTCAACGCAGGCTCAA	311	58.64
CGACAAGCAAGACGACACATTC	120	59.37
CGACAAGCAAGACGACACATTC	42	59.37
CAATCAGAAGCCTCTAGGAATCTGG	720	60.5
GAGTAATGGAATTAGAAGAAGAACTTGA	933	56.05
GAGTAATGGAATTAGAAGAAGAACTTGA	928	56.05
GAGTAATGGAATTAGAAGAAGAACTTGA	1032	56.05
ATTCTTCATCGCCGTCTCAC	176	56.39
TCCAATTAGAAGCTCTCTCTCG	67	57.3
GGCTACAGTGATTCATTCAACGC	653	59.62
CATAAGGTTAGTGCCGCTGCA	42	59.86
TTCACTGACCGAGGTTACAGC	1040	56.54
AGCAACAGATTATTGATTGTGGTAAC	282	56.64
ATTGAGTGAAGCCGTCGTTG	1012	57.41

AGCGTCAAGAGAAGACATTATTCAG	297	57.07
ACATTATGAATAGACCTGTGAGCTACC	27	57.16
ACATTATGAATAGACCTGTGAGCTACC	27	57.16
GCGTTGACATGCTTGTTGAAG	54	58.03
GCCTGAAGTCTGTGCTCGTT	357	56.72
CACCAACTCCGACCATTAC	224	57.42
CGAGGTTCCAGTGAGATGCC	283	59.24
ATTGAAGATTCCAGTCTGCCAT	685	56.4
CACTGTCTTCTCTAACCGTAGAATGCT	43	59.44
TTGTAGTTATGGAGAGGAGTAGGAAGA	803	57.04
CAAGACGTTGTGGTCATTGATTC	272	58.09
TACTAGATGACACTTATGATATGAGCGA	252	56.63
TACTAGATGACACTTATGATATGAGCGA	205	56.63
GGCTGTTGGTGGTGTGTGGT	1316	60.3
GGCTGTTGGTGGTGTGTGGT	1343	60.3
GGCTGTTGGTGGTGTGTGGT	1261	60.3
GGCTGTTGGTGGTGTGTGGT	1298	60.3
GGCTGTTGGTGGTGTGTGGT	1334	60.3
GGCTGTTGGTGGTGTGTGGT	1316	60.3
GGCTGTTGGTGGTGTGTGGT	1454	60.3
GGCTGTTGGTGGTGTGTGGT	1274	60.3
ATCTTGATGCACAATATATGTACTGGA	640	56.96
ATCTTGATGCACAATATATGTACTGGA	769	56.96
ATCTTGATGCACAATATATGTACTGGA	775	56.96
AATATTCCTTCTCCAATGGTTCCG	116	57.26
TTCCGAACCTTCATAATCAGGATAACTC	961	61.71
TTCCGAACCTTCATAATCAGGATAACTC	957	61.71
TTCCGAACCTTCATAATCAGGATAACTC	961	61.71
GCAACATCAATGGCAAGTCC	215	57.6
TTAACCTAATTCCGTATATCCAGTAGCA	107	58.64
CCGTCACACATGGAATGGTA	534	56.25
TTAGGCATCTTGAGTATTGAATCG	49	56.4
CGGAAGAGGAGTGTTCCGTA	166	56.47
AGGTTGTAGGCTTGTTATCATCAGA	521	57.18
ATCGGCAGAGCACTTCCAGA	124	59.53
TGATAAGAATGATGAGAAGTCCAAGTC	341	57.99
CCACACTTCCGACATTCTGC	1789	57.74
ATGGTTCAGCGTTATTGGA	359	56.63
ATGGTTCAGCGTTATTGGA	349	56.63
AGGCAGATTATTATTGGCTTGG	761	56.21
ATGAGTCAACGCCTGAACGA	62	57.89
CTACACGCACAAGCAGAGGA	1526	56.26
TGCTGTTGTTATTCTCTACTTCATTGC	923	58.98
AATGTATATGAGCGAGCACGGT	250	57.43

AATGTATATGAGCGAGCACGGT	335	57.43
GCATCCAACTTCGTCCAGAA	252	57.32
AAGATGTGGAATGAATGCTGAGA	1429	57.42
AAGATGTGGAATGAATGCTGAGA	1428	57.42
GATATCAACCGGCAGGAACA	1802	57.08
AAGGAAGGCATACGAGATTGAG	1702	56.29
GAGAGTGGTCGGATGAAAGTGC	2287	58.33
GCACACTTCACCACCATCAG	986	56.04
GCACACTTCACCACCATCAG	1044	56.04
ACGGCTGATGTGACGAATCC	1231	59.52
CAATGTGGAATCCTGCGATG	1505	58.52
ACGGCTGATGTGACGAATCC	1231	59.52
CAATGTGGAATCCTGCGATG	1469	58.52
CAATGTGGAATCCTGCGATG	1234	58.52
ACGGCTGATGTGACGAATCC	326	59.52
CAATGTGGAATCCTGCGATG	1511	58.52
CGATTACTGACACCTGATGGATCTGTA	5220	61.33
GAATGACCGTGCCTCGTGTT	328	59.56
AACTCCGCAGAAGACAGAACC	121	57.13
AACTCCGCAGAAGACAGAACC	121	57.13
CTGCTGCTGGATTCAACTGG	27	58.05
TGCTTCCGCTCAAGGAGAAC	273	59.14
TGCTTCCGCTCAAGGAGAAC	273	59.14
CGTGATACCAGAAGAGATGACAGT	139	56.18
CGTGATACCAGAAGAGATGACAGT	139	56.18
CTATGGAAGAAGGATTCATGGAGA	1066	57.44
CTATGGAAGAAGGATTCATGGAGA	1366	57.44
AGAGAGGCACAGACGACGGT	725	58.5
TTCCGACCTACACAATCATGG	493	57
AAGGATCAAGGATATGTGGATTATGTG	610	59.41
CAACACAGACAAGCACTGACAA	656	56.07
CAACACAGACAAGCACTGACAA	975	56.07
CAACACAGACAAGCACTGACAA	59	56.07
GGAGAAGATGATGATTATGAGGAGGA	365	59.77
GAACCACATCAGCCAACACA	84	56.48
GGATACACTCGGAGATGTTGCT	1770	56.91
AATAGTCAATGGAGGTGTCGCT	1302	56.49
CGGACTCGTCACAAGTCGCTT	114	61.31
CGGACTCGTCACAAGTCGCTT	202	61.31
CGGACTCGTCACAAGTCGCTT	115	61.31
CGGACTCGTCACAAGTCGCTT	45	61.31
CGGACTCGTCACAAGTCGCTT	114	61.31
CGGACTCGTCACAAGTCGCTT	202	61.31
CGGACTCGTCACAAGTCGCTT	115	61.31

CGGACTCGTCACAAGTCGCTT	45	61.31
AACACTTCACCGAGCCAGGA	265	59.28
AACTTGTTGTCTCCAACGATAGC	354	56.28
CAGACAACCAGATTACTTGATGCT	864	56.3
CAGACAACCAGATTACTTGATGCT	864	56.3
GTCTATTATGGATCTGAGACTGCGT	904	56.78
GCTCTCCTGGCTTCTGTAGTGT	84	56.47
GTTGCCACAGGAGGAAGTCA	496	57.29
GTTGCCACAGGAGGAAGTCA	496	57.29
GCACCGAGTCACACCGACAA	463	61.69
CCATCAACTTGTCGGTCTGTT	1239	56.23
CCATCAACTTGTCGGTCTGTT	963	56.23
CATACATCTATAACAATGACTACGCTTG	781	56.56
TGCTTCGTATGTTATCAATGGAA	802	56.09
TTCAATTACAAGAACCACAATAGCA	786	56.74
GCAATAGGAGTATGTAAGCAATTAGAGT	544	56.1
CATCTCGTGACAACCAATACAACC	234	59.28
AACGACATTAAGAAGCTTGAGGA	316	56.09
AGCATGGCTTGGTCTTACTGA	455	56.19
ATGGTGGCACTACTAGCAGTCA	88	56.15
TCGAGATTCTCTTGCATACTTC	477	56.42
AGCAAGTACGATGAGGATAGTGTTT	120	56.83
GCAGCAGATATTCTCACTGATGC	155	57.73
TGTACATGCTGATCATATTACTGGAA	299	56.59
CGTCAACTGAGTTCACCTTATCC	566	56.54
TGATGTGAGTCTTCCTGGACAGA	358	58.38
CAGGCGATAGCGATGGAGAG	3174	59.52
CCTGGTGTGGCTGATGTCGTT	1074	61.85
CAGGCGATAGCGATGGAGAG	3264	59.52
TTGTTGATACTCCACGACCACA	90	57.59
AACACCAGCAGAAGGCAACA	273	57.95
GGAGCACACGGAGTACAGAAGAGA	166	60.76
GGCGTCTCTTCTGTACTCCGTGT	187	60.65
CGACGCCATTCCATCTCATC	33	60
ACCACAAGGATCTGATAGTGATAGG	129	56.52
TCTTCTCCTTCATCCGCCTT	387	57.54
TGCGATGTATTGAAGGACACA	75	56.26
TGTCCGACTACACAGATGCG	1309	56.86
TGTCCGACTACACAGATGCG	1311	56.86
GCTGTGACAATCAAGTATATGTGTGC	385	58.68
CATCGTCTGCCTGGTTGGAG	25	60.22
CGAAGGATGTGGATTATGGTAGC	1128	58.52
CGTTGGATGTGACACTGGAG	258	56.05
ATCCAACCTTCACACTCAACCAACG	249	61.1

TGTGAGCGTGGTTGGTGTAG	64	56.76
CGTCGCTATTGTTGTGTAGTTATCG	75	58.84
CAATAATACACGGCTGCGGTCT	36	59.98
TGTTATAGTAGAAGATCCGTTCACAATG	549	57.96
CCGTTGTTCTGTGACTCGTTC	1266	57.79
CTCTCTGCGACTCCGAATCCA	52	61.37
GGTCTCACTGATACTCAAGTCAAGACG	544	60.52
AATGGAACACTGCCGCTACA	1137	57.84
ACAACTCGTATTCGCATCCAA	454	56.86
ATGCTTATTGTGACAGTTGTGGAA	391	57.37
AGAAGCTCGGAGTGCTGGTT	754	57.75
TTCGAAGATCATTGCAACGG	969	58.3
CTATTGGAATCTATCAGAGACTGGCACA	1158	61.77
CTATTGGAATCTATCAGAGACTGGCACA	1158	61.77
ATGGTGCTATCATTCCAACGC	718	58.53
AAGTCAAGTCCATTGGCAAGTC	693	56.94
AAGTCAAGTCCATTGGCAAGTC	301	56.94
AAGTCAAGTCCATTGGCAAGTC	693	56.94
TAAGAGTTGTTATTCTATTGCGTCCTA	400	56.04
GGTCTCCGCTGGATACATCA	142	57.13
TTATCAAGAGAGTCAATCCAATCAATC	112	57.88
ACGATTCCAACGATGATGATG	1123	56.94
ATTCTACAATTGCCTTCTAGATCACTT	135	56.29
CGGTGCTGATGGATTCTACAAG	267	58.33
TGCTCACTCGAGTGTTAACGAT	27	56.27
GTGACGGATGGCAGTAATTGGTA	187	59.72
TGCCGCCACTTATCAATCAG	538	58.33
TTGTGTTGAGGTTGGTTCTTACTG	33	57.04
TGGTGGAATGATGATGACTGC	274	57.95
AAGCACAGAGAGTAGAGCGGAA	614	57.15
GGAGTGTTGGCACAGATACTATTGC	2302	59.91
GCATGGTACAAGAATGATGTGG	652	56.57
GGAGTGTTGGCACAGATACTATTGC	1595	59.91
GCATGGTACAAGAATGATGTGG	609	56.57
GAGAGCAATGGCACAGTTACAC	957	56.12
GGTACACGAACTGCATATCACG	502	56.81
ACGGAGGATGAGGATGTTGC	483	58.54
CTCAATGTGCCAATGTGCCA	224	60.09
CTCGTCGCCTATGGAAGCAC	499	59.43
CTCGTCGCCTATGGAAGCAC	820	59.43
CTCGTCGCCTATGGAAGCAC	720	59.43
TTATATTACTATCTCGCAGGAGAGAGTG	262	56.88
ATGTGCATCTGAGTATGGTGTCC	1702	57.54
GAATCCATGAACATCACCGAA	762	56.91

CCTATTGTGATCCACGAGACATTC	1093	58.51
CAGACACTGTCGGATGCTGA	177	56.87
CCGTGTAGGCTGTGTCGCAT	195	60.68
TTATTGTGTACATGTTGTTGTGCTC	1060	60.1
CCGTGTAGGCTGTGTCGCAT	218	60.68
ACAAGTTCAACCACCACGTGA	257	57.56
AAGTGTTCCGAGACTGTGTGC	204	56.48
TCCGATTCTGATTCCGATTC	365	56.19
CAAGGACAAGATTGAAGAGAATAAGG	217	57.72
TTAACCGGACAATGTGCCGAT	70	61.03
TCAGTGTGTATGTAGATTGGCGTT	612	57.4
TTGCGTACACTTCATGGTTCC	557	57.21
GTGTTCCCTGTAGATATTGCAGAATG	178	57.14
AAGTTCGAGGCTACTATCCAGGA	273	57.28
AATGTGTTGAAGTTGGAATGGC	222	57.58
CCGACAGCCGAATGACCATA	111	60.43
GAGATGAACAGGCAGAGCAACA	371	59.07
GAGATGAACAGGCAGAGCAACA	376	59.07
GAGATGAACAGGCAGAGCAACA	417	59.07
GAGATGAACAGGCAGAGCAACA	376	59.07
GAGGTGGTGGCGGAAGAGAC	292	60.6
GAGGTGGTGGCGGAAGAGAC	291	60.6
CGACGTTCTGTGACGCTGAAG	160	61.51
CACCACCGCCACCTTACAATC	70	61.09
CATCGGACAAGGCGTTCAAC	162	60.07
CCGATGTCTGGAGGAAGTTCT	97	56.92
CCGATGTCTGGAGGAAGTTCT	248	56.92
GAACCTGAACCGAGTGGCTT	424	57.84
GAACCTGAACCGAGTGGCTT	424	57.84
TGAAGTACGAGGCATCTGGAA	628	57.03
TAGATGAACAAGATGAAGATTCAGCTG	205	59.01
CACCTGTAACCTGAACGACTGAGAG	82	56.86
CAAGATGAAGACAGTGATGCTGGT	165	59.28
TGACATCTCAACAATTGGACAGTG	554	58.61
TGACATCTCAACAATTGGACAGTG	552	58.61
TCGAATATGCAATCAGTGGACA	565	57.71
TTGCCACGGCTCAATTATTGC	410	61.74
CGATGGAACACTGATTCACAGC	710	59.19
ATCAGACATGCCATATTGCTGA	977	56.81
TTGTTGGAGCTGTGAATATGTTG	585	56.5
GTCGCTGAAGATGTCGCCAT	1247	59.81
GCTCTCATCATTCTCCACCAT	330	56.82
AATTGCACCGTCGAGCAGTC	280	59.84
AGCGAAGACGGATCGGACAT	89	60.56

CAAGTTCTCATCGAAGAGCAGCA	163	60.62
GCGATTCTCTTCAGTGGCAA	1047	57.63
AGGAGTCGGCTATTCTGGCA	57	58.49
TTGCGAATGGAGAATTGCAA	113	57.89
AACGAAGGCTACGATGATGG	849	56.39
GAACAGCTTCAACAACGATTGC	1067	58.49
GAACAGCTTCAACAACGATTGC	1104	58.49
GCATTCAACTTCCATCGCACT	80	58.79
ATGCGTCCTCTGTCACTTCC	483	56.33
GCCACCTCCTCCTTCTCCTC	38	58.82
CCAGGCTCTCAGACTCCACTACT	95	57.8
CCGTTGCCGAGAAGAATACATC	167	59.57
CCGTTGCCGAGAAGAATACATC	465	59.57
GTGACTTATGGAACGATGAACGG	944	59.36
GTGACTTATGGAACGATGAACGG	1102	59.36
GTGACTTATGGAACGATGAACGG	974	59.36
TACTCATTGTGTGCTCTGTGTTATCTG	544	57.82
CGGATGCTGGAGAATACGAT	1426	56.32
CTTCTCATACATGCACATTGGATT	214	56.85
GAGACGCTGGAGTTAACTGGAG	499	56.86
CTTCTCATACATGCACATTGGATT	214	56.85
ATTGTCAGACGAATACTTGTGAAGG	499	57.49
TTGGAATTCTTGATGTGTACG	293	56.28
CAATCGGTTTCATGTTGACAAGA	1211	57.2
CCGCCGAAGAAGATAATACG	275	56.19
GCATCTACTTCATCTCCTGTCAGA	468	56.38
GGTGACAGTGTGCGATGAAGG	45	60.13
ATAGAAGAACCGCCGATGATG	238	57.77
ATAGAAGAACCGCCGATGATG	318	57.77
ACGAAGTGACAGAGGTTGAGCAT	51	58.91
ACGAAGTGACAGAGGTTGAGCAT	51	58.91
GATAGACAATGGTCTGATGAGCAT	341	56.02
AATGTTTCGTCGGCGAGGTAT	340	58.14
GGAGATTGATGAGCTGTTGAAGT	208	56.21
ACCTACAAGCTGTTCTCTTCCAATC	529	58.11
TTGCTAGTTGCATGTCATCTG	796	57.59
GGACGACGACATCTGACGGT	386	59.55
AATCATGATGCCACCAGGAA	980	57.39
GGACGACGACATCTGACGGT	144	59.55
ACCGTCACAGCCAACCAATG	1366	60.38
CATCTACAGTACACGATGATGGTAGAAC	1267	58.23
TTGGCGATTGAACACGAGAC	1256	58.3
TTGGCGATTGAACACGAGAC	1142	58.3
TTGGCGATTGAACACGAGAC	1185	58.3

TTGGCGATTGAACACGAGAC	1240	58.3
TTGGCGATTGAACACGAGAC	1185	58.3
TTGGCGATTGAACACGAGAC	1013	58.3
CAAGCGAACGAAGGAATGGA	908	59.77
CAAGCGAACGAAGGAATGGA	899	59.77
GAAGGTGAAGTTACTTGGTGGACA	1167	58.23
GAAGGTGAAGTTACTTGGTGGACA	720	58.23
GAATGAGCAGTTCTACAACAAGCG	431	59.11
CGGACGCCTTCTTACAGGAA	320	58.91
CGGACGCCTTCTTACAGGAA	320	58.91
CGGACGCCTTCTTACAGGAA	192	58.91
CGGACGCCTTCTTACAGGAA	192	58.91
CGAGAGTACAGACACGACAAGG	66	56.22
TCGGAGCGAGACGATGAACA	36	61.44
GTGCGGTCAGCATGGTCGTA	145	61.62
TGTATCCACAGTATCCAGTGCCTA	70	57.35
CTACTTGGAGCAGGAGAATGTGG	134	58.9
CTTCTCCGTCCTCTTCGTGTC	115	57.58
TTGGTACTGCGCGTAATCTACC	200	57.97
TTGGTACTGCGCGTAATCTACC	154	57.97
CTCTAACAAACGTCTTACGCTGGA	235	57.41
AACTGAAGCAGCAAGACGGT	373	58.61
AACTGAAGCAGCAAGACGGT	340	58.61
GCCTAGTAGGATATGAGAGAAGCAA	137	56.35
AAGCCAGAGCCAGGATGGTG	96	61.12
GGAAGTGAAGAGCTGAGCCA	974	56.79
GCAACATCTACACCAACTACATCTG	389	56.62
AGTTAGCGTTATTGTTCTATTCTTAC	35	57.19
ACGGAGGAGGAGGACGAGGA	35	62
AGCGTCTCAAGCACACAGGA	276	58.19
AGCGTCTCAAGCACACAGGA	74	58.19
GAGATTACACTTGTGGCGAGCA	50	60.25
CAGTAACGCTAAGAAGGTCAGTCAG	2830	57.59
CAGTAACGCTAAGAAGGTCAGTCAG	2719	57.59
CCGAGAGAGGCACTTGTTAGATTG	3061	60.23
CCGAGAGAGGCACTTGTTAGATTG	3172	60.23
CCGAGAGAGGCACTTGTTAGATTG	3178	60.23
CAGTAACGCTAAGAAGGTCAGTCAG	2830	57.59
CAGTAACGCTAAGAAGGTCAGTCAG	2719	57.59
CCGAGAGAGGCACTTGTTAGATTG	3067	60.23
TTGTAGTTGTAATCAGAATAATGGATGC	318	57.85
TTGTAGTTGTAATCAGAATAATGGATGC	318	57.85
TTGTTATCGTGCTCGTGAAGTC	177	56.67
TTCTACGCACAAGATCATTAACTACT	90	57.27

CGATGCCGTTGGAATAAACTG	664	61.18
GAACAACCTCTAGTGTCTTATGGACTTG	523	57.03
GATGGATGTTATTCGGATGTTGG	719	59.04
GTACACAACATGGAATATCGAAGAAG	739	58.32
TTCATGGAGTTCGCATCACAA	117	58.71
TTCATGGAGTTCGCATCACAA	118	58.71
TGAGTCGTTTCATTGAGTCTCGTTC	737	59.39
GGAGTAGAAGCGACCGAGGAAG	1369	60.32
CTTCGCATCTCTTGAATTACGG	1012	57.65
AATTCGATCATTAAAGAGAACCTGAA	1531	56.4
ATTGAGAGTTGGAGAAGGTGACAG	2072	57.58
ATTGAGAGTTGGAGAAGGTGACAG	2072	57.58
ATTGAGAGTTGGAGAAGGTGACAG	2087	57.58
ATGATTGAAGGAGGAGTCATTGATCT	811	59.38
ATGATTGAAGGAGGAGTCATTGATCT	811	59.38
ACGAATATGTTGGCTAACTTGTG	382	56.27
CGTGTAATCGGTGTGTCCAA	968	56.48
ACACAAGGCGGACACGGATT	176	61.27
AAGGTGCTACGAGAGAGAAGGTG	54	57.86
CGAGAAGCCACCAATGAAGA	181	57.48
CTACTCCGTGAGAGTCGCAGGT	62	59.53
CAACACAACGCCTACCACCA	2258	59.05
CAACACAACGCCTACCACCA	1991	59.05
CAACACAACGCCTACCACCA	2159	59.05
GATAACATTAGTCAATCATCCTTCTCAA	4039	57.15
CGACTTGCGTGAGCAGATGA	1201	59.71
GATAACATTAGTCAATCATCCTTCTCAA	499	57.15
AACAGTGCTCCACTGAGGCA	530	58.03
CTATCAAGTCAGCTGCAGAATCG	124	57.92
CTGAAGGAACGATGTAAGAAGTGC	63	58.15
GACAACAACAACCTCCAACACCAT	906	57.48
GACAACAACAACCTCCAACACCAT	974	57.48
GACAACAACAACCTCCAACACCAT	354	57.48
GACAACAACAACCTCCAACACCAT	267	57.48
ATGGAGATTGGTGGATTGTGAGAG	667	60.18
GGTGTGGAGGAATCGGATCA	442	59.3
AATCGACAAGTGAGCGGACA	72	57.89
CGACTGTGTGAAGAGTAACAAGAGAA	65	57.9
GTTGAACGTGAGTTCGTGTTGG	173	59.13
GATGGCTCGTTCAGATTCCCTC	1494	57.4
CAGCAGCAGATAATAGTGACGAA	60	56.09
GATGGCTCGTTCAGATTCCCTC	1685	57.4
ACGCCTCCGATGTTGCTGAT	819	61.51
TGGTGGCTACAGTGGTTATGGT	702	57.99

TGTCCTTGGAGATGAGTGTTCA	1706	56.82
TGTCCTTGGAGATGAGTGTTCA	2574	56.82
TGTCCTTGGAGATGAGTGTTCA	1706	56.82
TTCAACTCCGCCACAATCAAC	568	59.55
ATCAAGTCAGTATGGAAGAGATTCAAC	152	57.16
GTGCTCTCACTACGCTGTGCT	2621	56.99
CGGTGCAATGGAAGACAAGG	34	60.06
TTCTCTTCTGCAAGTCTAAGAATGTG	199	57.24
GCATTCTATCATGGACACGTTG	334	56.72
ATTGGCTTCTTCCTGGCTTCA	351	59.79
ATTGGCTTCTTCCTGGCTTCA	276	59.79
ATTCACCTCCACCGTGCGAGA	1049	60.23
CAAGTTGCACAGGCATTGAAG	852	58.03
CAAGTTGCACAGGCATTGAAG	1093	58.03
CAAGTTGCACAGGCATTGAAG	1156	58.03
ACGGTATCAGAAGACGGCTATC	2280	56.17
TAGGTTATCAGTATCGGTCATCTCGGT	57	61.12
CGGAATGGTTGACGAGTTGCG	2719	60.06
CATGTCAAGCTGGAGGCGAT	1173	59.8
AGGTTGTTGCCACACCGAAG	299	59.59
GTCGTTGGTGTGGATAATGTGA	301	56.92
CGTGGATCTGTTATACCGTACACTTG	1134	59.72
CCACCACCTCCATCGTCATC	2981	59.75
CCACCACCTCCATCGTCATC	2993	59.75
CGATGGTCACAACACTCTTCAG	1445	56.92
AATCTTGTTGCTGATGGCTACTC	484	56.36
AATCTTGTTGCTGATGGCTACTC	428	56.36
TACACACCTTATCAAGAGATGTTATTGC	63	57.96
TTGATCGAGAGCTGGTCCTC	77	56.56
GCATACTACGAGTTCGACATGATTC	273	57.94
GCGATAATGCTGACAAGATGC	90	57.09
AAGACTGTGCCATTGTTGTCAA	72	56.86
CAGCTCGTCTTCTCCTCCGA	68	59.26
ACTGCAGCCGTTGACCATC	290	61.53
GGAACATTAAGGTTGAGGACACA	45	56.77
GATATTATCAAGTACACGGCGGCTA	98	59.44
GCGATTAGCAGAAGGCAATG	98	57.23
CATTGCTTGCTGCTTCTTCTC	91	58.02
TGACGCAGCAGCACAACACT	193	60.22
GGAGAGCATCAATCAGCCAA	511	57.42
ATCACACGAATACGAACGAAGG	165	57.75
GACTGCTGGTACATCATCTCGTC	706	57.42
CATATTGGTACATTACTGCCGATG	712	57.21
TGTTCAGTATATGCTGATCCGAGA	63	57.54

TGTTCA GTATATGCTGATCCGAGA	81	57.54
CAATGACTTG TACTACGATGTGATGG	131	58.55
CAATGACTTG TACTACGATGTGATGG	131	58.55
CGTCTGCGGAAGCATCTACTC	647	58.69
CGTCTGCGGAAGCATCTACTC	720	58.69
CCGCCGTATGGAGCAGAGTT	416	61.09
CGAACAGTAACAGTACGCAGGCA	69	61.15
ATTGTGAAGACACTGAATGCCA	601	56.8
ACCGCTACGTCTTCAACTCCA	177	58.46
GTCTCGGTCTCTCGGCACTA	491	56.66
CGCTACCAATGGTGGATTGC	58	59.92
TTAAGGTGTTAGAGAATTAGCTAGGTCA	194	56.57
GGAGCACAACAGTTCACTGGAAC	585	59.66
TGAACTATGACTCTTCCGCAACA	56	58.5
TTCACTCACA CTACATACCGATTGG	346	58.97
TTAGCGGAGAGAGCGAGGAC	83	58.37
CACGACAGGATGTGAGCAAG	194	56.39
TGACTTCATTCA GTGATCCAGAA	694	56.01
CGTCGGAGTATCTGGTCTTACAC	1002	56.57
CAAGGCACTGTCTCATTCTCC	1099	56.03
GCATCTAACTCTTCACATCAATCCG	435	59.97
CGTCTCTGTGATTCTCTGTCTTGC	232	59.17
GGCAATAGCATCAACAACGAA	2263	57.39
ACTGTCTACTTGGTGATCCTCTGG	944	57.46
GTGTTCA GCAGATTGTTGAGCA	456	57.62
CGGAGGAAGTTGCTCAGGAA	139	59
CGGAGGAAGTTGCTCAGGAA	139	59
CAATGAACTTACTAACTCTTCTCTCGT	41	56.2
AACGCCAAGAACATCCGAAG	175	58.77
TCTACGGACGGCGAGGATTG	276	61.97
AACTTAGCGAAGATATCTCCATTGG	135	58.02
GACATAATCGGTTCACTGGTTGC	2097	59.36
GACATAATCGGTTCACTGGTTGC	2191	59.36
GACATAATCGGTTCACTGGTTGC	2187	59.36
CCTGAGAAGAGTGGAAGATTCTG	1018	56.77
CCTGAGAAGAGTGGAAGATTCTG	1328	56.77
CCTGAGAAGAGTGGAAGATTCTG	1059	56.77
GTCAGTCAGGAAGCCGTGGAA	309	61.14
TTGGTGCCGAACTTGCCTAT	269	59.17
TTGGTGCCGAACTTGCCTAT	368	59.17
TTGGTGCCGAACTTGCCTAT	327	59.17
GCAGAGGAGCATCGTACTCAG	1305	56.38
GACTGACAGGTGCGGTCGTC	127	60.29
GAGTGAGAAGCCACTGGCAGTG	41	60.95

TGACAGAGCACAAACAGGAACG	53	58.51
TATTGCCGTGTGGAACAAAGG	2688	56.44
TTGATGTGTCCGAGAATACGC	192	57.3
TTAATATGGATCTTATTGGTGGCA	1553	56.42
GAGCATTCACACGATGAGAACCAC	96	61.72
GAGCATTCACACGATGAGAACCAC	105	61.72
GTTGGAGACGGAACAGTTGGAA	58	59.96
GCAAGATGATGGCGTGGAAT	627	59.49
CCATCCTTCCTGACGAATCTC	631	57.25
GCTGGTGTGGAAGAATATACGAA	773	56.98
GAGAAGCAGTGACAATAATGGAATC	417	57.1
TACCGTTGGCAGAAGAATCGTG	59	60.95
TACCGTTGGCAGAAGAATCGTG	135	60.95
TGCCGATATTCTGCCTGGAA	315	60.12
CTGATGCCACTGATGCTCAA	293	56.92
GCAACAGAAGAAGTGAGCAGAA	69	56.12
CTGTTAGTTCCAGTTGAAGAGCAA	873	56.61
GCAACAGAAGAAGTGAGCAGAA	114	56.12
AAGTGGCGTCGATTCTGGAA	78	59.26
TTGTCTGTGAAGTCCAGCTACTC	475	59.58
AATGTATGGAGTATGGAGCAACG	171	56.87
AGGTGGTCGAGAGACACAACA	108	56.79
AAGAATGCAATATGTTGATCGAGTT	61	57.08
GCAAGGACAAGGATCACCATT	85	57.58
CGTGTTCAAGTTGGAATGATTGGTC	29	61.41
AATGCTGATCGTATTGTTGCC	1103	56.37
AAGACAGTAGAAGATATGACGCAAGA	98	56.71
CGATTCATTGATACGGCACA	144	56.63
GAAGGATAGATATTGTCTCGGCGAT	1261	59.81
GAAGGATAGATATTGTCTCGGCGAT	1224	59.81
CAACGAACGCAATCTCCTAGTCAC	227	60.95
AATCCAGCAACGCTTATGATG	1005	56.52
AATCCAGCAACGCTTATGATG	1071	56.52
GATATGCAACCGTCTGCCTTG	522	59.18
GGTGATGGCTGGTTATGGAG	265	56.52
GGTGATGGCTGGTTATGGAG	265	56.52
GACCAAGGAATCCTGCGTCT	26	57.79
TTATACTCTGGCAGGCAATCACT	666	56.76
TTATACTCTGGCAGGCAATCACT	87	56.76
GGTCGCTGAAGAGGCTGAGG	143	61
TGGTTCAGAATCACACGATGA	1215	56.09
TGGTTCAGAATCACACGATGA	1215	56.09
GATGTAAGGACACAATTGTCTGGTT	1952	57.23
GATGTAAGGACACAATTGTCTGGTT	1332	57.23

AAGAGTTAGTGAATTGGAGCAAGC	647	57.06
CGCATAAGAAGCAACAAGAGATG	1784	57.85
CGCATAAGAAGCAACAAGAGATG	1784	57.85
AATTATGTGGATATGTCACCAACTGAA	471	58.69
ATTGCTGGATGGATTCTCGCT	199	59.65
TTCCGACCGATCTGTACCTTC	390	57.72
GAGCACTCTACAAGTATACACCGTTG	756	57.31
CATCAACTGCGGAAGACCTT	205	56.46
CGCTTGGTAACCTCGGAACC	201	60.43
ATGATGCGGACGAAGTAGTGG	1192	58.67
ACGAAGCCTGATGGAGTGGA	777	59.24
ACGAAGCCTGATGGAGTGGA	828	59.24
ACGAAGCCTGATGGAGTGGA	784	59.24
CGATTGGAGGATGGCAGAGA	134	59.73
TTAATCGTATTGAAGGCTACCATCG	653	59.42
GTGTGTGGCTGGTGGAGGAA	761	60.53
GTGTGTGGCTGGTGGAGGAA	761	60.53
GTGTGTGGCTGGTGGAGGAA	761	60.53
GTGTGTGGCTGGTGGAGGAA	761	60.53
GTGTGTGGCTGGTGGAGGAA	761	60.53
TGCAGTCATATCCATAAGTCGATTG	818	59.04
AATCGTCTGATTGGAGTTCAGAA	145	56.6
GCTGAACAATACTGTGATGGATGGAG	3233	61.8
GCTGAACAATACTGTGATGGATGGAG	2153	61.8
GCTGAACAATACTGTGATGGATGGAG	1769	61.8
TTATCGGTGGTTACGGTAGCC	2023	57.64
GATTCCGTTTCATATCTGATTATCATG	235	56.82
TGTTGATCGTGCTCGTATCG	271	56.9
TGTTGATCGTGCTCGTATCG	318	56.9
TGGTCATCATCTCGCTACTGC	951	57.52
GGAGTGTTTCGATTGATTGTTGCT	332	59.12
GGAGTGTTTCGATTGATTGTTGCT	200	59.12
AACAATCTGGAATATCGGTGGA	503	57.04
GCTGTTGGCGATGAGAATGATAC	2033	59.59
GCTGTTGGCGATGAGAATGATAC	2033	59.59
GCTGTTGGCGATGAGAATGATAC	1969	59.59
TTGCTGATCTTGTGAATCTGACA	519	57.09
CGACGAAGTCCTCAGTTCTGG	419	58.53
AGGAAGCACCGAAGCATATAGTTATCAC	1099	61.86
GCTCTTGTCGTCATTGGTTCA	92	57.4
CCAACACTTGATTACCAAGCTGTCTAC	282	60.27
CGTTCCTATTGATTCCGTTATTGG	2943	59.59
TCATAGAGCAGAGCAACGAAGA	3216	56.64
TATTATCTTCACGCATTCCTGGT	441	56.52

GCCACTGAATGATGCAGATG	122	56.2
ATGTGATTATCATATTCCAATTCT	197	56.54
GAACCTGAATCTTCTACTTGGCT	828	56.13
TGTGAGTTGCGATCTGCCAT	164	58.83
ATGGAGCAAGCCTAGCATCG	75	59.03
GACGGACTCGAACTGCACTACG	105	60.8
TGGTGTACTAATGGCGATATTGC	454	57.73
TTCCACTTCAGACAGCAGGTG	295	57.53
CATTGATACTTGTGGAGAGAGTGATTG	413	59.13
CATTGATACTTGTGGAGAGAGTGATTG	539	59.13
AATTGTACTCTGTCTGTTGAATTCCATT	124	58.58
CACGTACATATCGCTGGTGGA	598	58.12
AGCATATAGGTTATAGGCTTGGAATC	441	56.51
TATTAGCCGAATACTATTCCAATACCTG	366	58.25
AGAGTGGTCAGAACTTGGTGGA	93	57.36
GGAGATGGTCCTCTGAAGCC	1894	57.3
AGCGGTCCTTACCTGGAACATC	1846	60.3
ACCGAAGAAGACGCTGTGAA	980	57.13
TCATTCACTTGCCACATTG	803	56.71
AATGACCGAACATACCGCAT	1097	56.51
CTCCATCGAGCCTTGCCTGT	24	61.25
AATTCTTCACCAACTATGAGTTATATGG	129	56.38
CCTATCGGACGGCTCTGACG	176	61.62
TGACCTGGCGGCATTCTACC	138	61.86
GGACGAGGATGAGGTCAAGG	479	58.11
GATGACAGAAGAGCTCCGGATAGAC	197	60.54
GATGACAGAAGAGCTCCGGATAGAC	258	60.54
AGTTGTGTCCGACGCTGTGT	53	57.8
TTGGATGAAGATGATGCTATGATG	2028	57.71
TTGGATGAAGATGATGCTATGATG	2057	57.71
CAACAGGAACAGATGATGGAACA	645	58.55
TCATTGGCTCTGCTACTTATTCTCA	88	58.29
AGAGACAGAGATTAGCTCATTGTCAA	779	56.72
TTCAAGCGTATCTCAGAGCAGTT	1159	57.11
TTCAAGCGTATCTCAGAGCAGTT	1159	57.11
TTCAAGCGTATCTCAGAGCAGTT	1175	57.11
GATGGAGCTGACAGGATCGG	86	59.2
CAACACATCTACTTCTACTACACCATCA	81	56.81
TATTGTTCTCTCACTTAATATTCCAGGT	72	56.16
TTCACACTTGCTTCGCACTATC	97	56.81
TACTTCTGATGTTGGCTGAGACGAC	43	60.62
GACATCGCTTAACTGGATAATGAAGT	164	57.96
ACTCTAGGAAGAATGGATAGGTGTATG	99	56.42
CGATTATGATGGTTGGAGTGG	648	56.5

CGACGCAAGCCAGGAACTCT	47	61.41
GGTGCCACATATCCAGACAACA	44	59.31
CACCTGATGAATCTTGGACTGTC	562	57.25
CACCTGATGAATCTTGGACTGTC	678	57.25
CACCTGATGAATCTTGGACTGTC	840	57.25
CACCTGATGAATCTTGGACTGTC	113	57.25
CACCTGATGAATCTTGGACTGTC	840	57.25
CACCTGATGAATCTTGGACTGTC	687	57.25
CACCTGATGAATCTTGGACTGTC	840	57.25
AGGATGGTGGAGGAGCTGGT	699	59.51
GTGCCAACGAGCGAACGATA	86	60.74
CGATGTGTCTGGAATGGATGC	128	59.91
AATGATTGGCAGACTACTGGACA	755	57.36
GCACTATTCCTTGTCGCCTGT	207	57.95
TCCTCTCTGTCCACCTCATCG	171	58.83
TTATGGTTCAGACTGATATGAGTACACC	482	57.78
CAATCACAAGTATTCAATGGCTCTCAA	1123	61.38
CAATCACAAGTATTCAATGGCTCTCAA	1099	61.38
TAGCCGAGAAGAATAAGCAGCA	1975	58.06
TAGCCGAGAAGAATAAGCAGCA	2029	58.06
TAGCCGAGAAGAATAAGCAGCA	1313	58.06
TAGCCGAGAAGAATAAGCAGCA	866	58.06
TAGCCGAATCCGAATACTTGC	616	57.97
AAGGTCAAGCTCAGCTCGGT	196	57.75
AGAGATACAGAGAACAAGAAGCA	588	56.11
ATGATTCACATCCAGGACCGT	101	57.77
GTGACATTAGCCGAGCCGAA	1110	59.8
TCTTGGACACGTGAGCAGGT	56	57.88
GTGACATTAGCCGAGCCGAA	1164	59.8
ATCAGGTTCGGATGTGAAGACT	111	56.35
CAACAGGAGCAGGACATGAAGC	106	60.75
CAACAGGAGCAGGACATGAAGC	106	60.75
GGAAGGAGTACGAGGAGAAGGATG	1109	60.4
GGAAGGAGTACGAGGAGAAGGATG	1192	60.4
ATGATGAGATGGAGAAGAGGATTG	917	57.36
GGCGGTTCTACAGACAATACTCTC	107	57.21
GTATGTGCGGATAACATGACATG	72	56.58
GGTGTCTGATGTGTGGAGACA	118	57.06
GGTGTCTGATGTGTGGAGACA	144	57.06
ATGATGTGTGTCTATGCGTCGA	66	57.72
CCATTACATGTACTGCACTCCAA	271	56.38
CCTATTCAACCATCGCTGCCT	798	60.05
CCTATTCAACCATCGCTGCCT	700	60.05
GAAGAGTCCGACGATGAGATTG	1451	57.47

GAAGAGTCCGACGATGAGATTG	1330	57.47
GAAGAGTCCGACGATGAGATTG	1461	57.47
GAAGAGTCCGACGATGAGATTG	1457	57.47
GAAGAGTCCGACGATGAGATTG	1451	57.47
GAAGAGTCCGACGATGAGATTG	1371	57.47
GAAGAGTCCGACGATGAGATTG	1349	57.47
GAAGAGTCCGACGATGAGATTG	1228	57.47
GAAGAGTCCGACGATGAGATTG	1359	57.47
GAAGAGTCCGACGATGAGATTG	1355	57.47
GAAGAGTCCGACGATGAGATTG	1269	57.47
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ATGAAGATGTCTGCGAAGAGGAT	1226	57.98
GCGAGTTGGTGGATCTTGAACA	509	60.98
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GCCTTCTCTGTGTCATCATTCTTC	88	57.3
GCCTTCTCTGTGTCATCATTCTTC	146	57.3
GCCTTCTCTGTGTCATCATTCTTC	88	57.3
GCCTTCTCTGTGTCATCATTCTTC	146	57.3
GCCTTCTCTGTGTCATCATTCTTC	88	57.3
GCCTTCTCTGTGTCATCATTCTTC	146	57.3
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AGAACTCCACTCGGCGACTTG	382	60.38
AGAACTCCACTCGGCGACTTG	409	60.38
AGAACTCCACTCGGCGACTTG	710	60.38
GTCTTGGATGCCATCAATGCT	893	58.6
CAGACGCTCGCTTGACTTGT	404	57.85
CAGACGCTCGCTTGACTTGT	461	57.85
GCACTTCACAGCGATGTTCC	475	57.89
CCAGTCTTACATCGGCAACC	167	56.74
AGACGACCGCAAGCACCCT	600	61.75
CAAGATTAGTTGCAGAACGGCTT	61	58.62
AATGAAGCACACAAGGAGGAGCA	79	61.93
ATTCACCGACGACGCACAGT	722	60.15
ATTCACCGACGACGCACAGT	545	60.15
ATTCACCGACGACGCACAGT	654	60.15
CCAGAGGTCTCCGAATGCTA	147	56.55
CGATTATCAACACCGTCTTATATCACA	226	59.25
TAGTCGGATGCAGGACAGCT	258	57.1
TAGTCGGATGCAGGACAGCT	177	57.1
CTCCTTCCTCAACTCACGCA	27	57.61

CGAGAATGAGCACGGAGGAG	292	59.53
TTGGAAGTATGGATCATGTAGAGTCA	937	57.8
TGCTATGATGGCTGAGACTGC	281	57.67
TGACTGGAGAACAACGAGAAGA	904	56.25
TTGCTGTAACGCGGAAGAGA	58	57.39
AATTGGTCGGTAAGGATCGTC	948	56.65
GGATGGAACGAGCCGACTGT	1342	60.99
GGATGGAACGAGCCGACTGT	1169	60.99
GTGTCATCAACGAGCCAACTG	612	57.81
TCAGCAGTCTCCTCAGAACACACA	696	60.98
TCAGCAGTCTCCTCAGAACACACA	696	60.98
TCAGCAGTCTCCTCAGAACACACA	669	60.98
TCAGCAGTCTCCTCAGAACACACA	709	60.98
TGACAGTAGTCTGAAGAACAATCACACA	763	60.11
GCTGCTATGCTGGTTGCTCT	1136	56.95
TTCCTCCTGCATTGAAGCTAA	61	56.38
GCGTATGGATGATCAGAGAACTGA	1354	59.22
CGCAACCGATTCTTATGTCAC	3007	56.86
CGCAACCGATTCTTATGTCAC	3025	56.86
CGCAACCGATTCTTATGTCAC	3286	56.86
ATGTTCTTCTCGCCGTTTACG	134	56.62
GCAGAGGTGTCTCTCACAGTAACC	777	58.09
GAGGTCTCTCTCACAGTCACCAC	773	56.53
GCCGTGTATCCACAGAGTGC	657	57.76
GCCGTGTATCCACAGAGTGC	839	57.76
CTGGATCAGGATTATAGTGTGATGACG	259	60.85
GTCAGAATGATTGATCGTGGA	304	59.53
GCCGCCATCAAGACTTCTCT	451	58.08
GCCGCCATCAAGACTTCTCT	751	58.08
CTGACGAGAGCGAGATGAGC	503	57.45
CTGACGAGAGCGAGATGAGC	803	57.45
GGAACCAGCACACTCAATAAGG	327	57.35
GGAACCAGCACACTCAATAAGG	627	57.35
AGGCTGTGACATGTGGAACA	207	56.21
AATCTGCTTGACATCAACTTGGA	934	57.48
CAACCAACAACCTCGGAGGACAT	207	59.85
AATTGACGATGTCGAGTGTGC	911	57.27
GCTCATCACCTCCTGGAACC	378	58.12
GCCTGCGCTGTGTCACTC	63	61.6
CGTTCTGTGAGAATGTGGCA	47	56.82
GGACAAGAAGCGTATGGCAA	1149	57.44
GGACAAGAAGCGTATGGCAA	1006	57.44
TGGAGCATTACGATTACGA	722	56.34
TGGAGCATTACGATTACGA	502	56.34

GCTACGAGCCAGGATATGGAG	880	57.54
CCGTTCTGATGGAGGAGTT	646	57.64
TTGATGATGATATGGTTGTGGAG	336	56.07
GAGAAGAGGAAGCACATTGAGG	109	56.77
GCCGTCAAGTCCTGTCATCA	548	58.24
AGGCTGGTGTGAGAGATATGGCT	200	60.1
ATAATGGTGATGGAGCCGTGA	2393	58.86
AAGGATCGAAGATCAAGCAGTG	563	57.18
AAGGATCGAAGATCAAGCAGTG	557	57.18
AAGGATCGAAGATCAAGCAGTG	453	57.18
AAGGATCGAAGATCAAGCAGTG	533	57.18
AAGGATCGAAGATCAAGCAGTG	503	57.18
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CCACGTCATCAGAGCTTGCC	99	60.37
GTCACCTACTTAGCCGTCAATACC	249	57.06
ACCATCCAGCCGTGTGTGAG	1579	60.55
ACCATCCAGCCGTGTGTGAG	1467	60.55
ATGGATGAATCACCGAGTCG	20	56.98
ATCGTGTGTCTGGAGAAGCC	489	57.85
CATGGATTCCGGCAATTCTG	98	59.85
CAATCACCAACTATCACGATGTCC	2602	59.24
CAATCACCAACTATCACGATGTCC	1918	59.24
GCTTGGCGTTCTTCTCGGTT	74	60.33
CGAGCACAAACAGCCACCATT	42	60.66
GACCATTGCGGAGAAGCTCTTAC	88	60.2
GCCAATGTTCAGGAATCATACCA	631	59.67
ACAGATACAGAGGTGTAGATCAGTGTGG	1217	59.87
TTGGATTGACAGAAGAGCGGTT	810	59.7
TGAGTTCTATGGAAGTCAATGG	172	57.87
AAGCTGAAGGAGATCCAGTCTG	111	56.38
AAGCTGAAGGAGATCCAGTCTG	184	56.38
ACTCTCCGCTGGATCATGCTAC	191	59.34
CCTGCTAATGCCGTAATGATG	159	56.93
AACACATCGGACGCTACACG	686	58.25
ATTCCTTCCGCATCGTCCATC	855	61.97
ATTCCTTCCGCATCGTCCATC	853	61.97
TTGGAATGGTGCGAGAAGGC	956	61.97
TTGGAATGGTGCGAGAAGGC	1048	61.97
GCCGCTTAGAGCCTCTGAAC	103	57.91
CATTGAGGTGCCGTATTGGA	425	58.03
AATTGACAATCTCTCAATGCCAA	739	57.36
ATTGAACTGAATTGGACCGAA	196	57.21

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ATCACAGCCATTCAGCACTCC	204	58.75
TAGAAGAAGTAACACCAGATTATGATGC	1058	57.34
TAGAAGAAGTAACACCAGATTATGATGC	533	57.34
TGGCACCATACGTACAGAA	92	57.12
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GCTACATACACTACTCAGGCTCCA	1646	56.46
GCTACATACACTACTCAGGCTCCA	1646	56.46
ATTCCGCCTTATACCGCCTT	194	58.59
GGCGTCGATTCAATTATTGG	176	56.68
ATTCCGCCTTATACCGCCTT	194	58.59
TAGATGTGAGCAACAGACACCAAC	73	57.92
ACAATGGCTGGAATCACACC	753	56.88
AAGAATCAATGAATACCGCGTGTG	66	60.99
ACAATGGCTGGAATCACACC	753	56.88
CGAGACTGATGAGGAAGACTACG	265	56.88
GACTTCCGACTGCTCAACTAATGC	400	60.24
CGCTTCCAATCACTCCAATC	266	56.8
CCTGTCCAACCTTAATGTCTAATTCGTT	83	58.99
CACTCACGCTGGTCTCGGAT	1349	59.84
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AATCGGAACTTCAATCGCGTCTT	133	61.98
TGCTCTCCAGATGTATTCCACCA	880	60.44
GCACAACCTTCTTCCTCTCG	652	56.18
GCACAACCTTCTTCCTCTCG	732	56.18
AGCACAACCTTCTTCCTCTCG	652	57.28
AGCACAACCTTCTTCCTCTCG	732	57.28
ATCTCCAGCATCTCCAGGTTCT	31	57.91
TCGAGACCGGTGACCGTAGT	75	59.16
TGTGGTGTGAAGAACTGTGGA	490	56.1
CCGAATGGTCAAGATGCATT	857	57.08
GGTTGTGGTGTTAAGAATTGTGGAA	478	59.99
GGAACCAAGAAGGATAGTGCTACC	159	58.28
GCGGTGGATTATTCCAGGTTG	508	60.14
TTCCACCTCTCAGCCAGTCT	56	56.04
TTGGAGAAGAATAAGAGCGGTT	557	56.01
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TTGGAGAAGAATAAGAGCGGTT	557	56.01
TTGGAGAAGAATAAGAGCGGTT	557	56.01
TTGGAGAAGAATAAGAGCGGTT	446	56.01
TTGGAGAAGAATAAGAGCGGTT	557	56.01
TTGGAGAAGAATAAGAGCGGTT	446	56.01
GTGCGAGTGCTCCGTTCAAG	111	60.54
CTCCGTTCAAGCTGGTGTCTG	113	60.39

TTATTCCACGGCACTTGATGA	122	57.7
GTCTTATTCTAACACAGTCCACGATG	106	57.11
GATTCTGGAGTCGTCGGATG	343	56.69
GATTCTGGAGTCGTCGGATG	343	56.69
GAGACATCCGCCAAGTCATCG	507	61.5
AGGATCTGAAGCATGGCGACT	668	59.81
TCCACCATCAGCGACTCTCA	101	58.92
TTGTTACCAGTTGCATATGGAGCTAT	428	59.05
AGTCAACATCACAAGTGACACCA	676	56.68
TTCATTCTTACAGTTATTCTCTATTCTG	570	56.71
GTCTCATTATGCTCTGCCTTGC	161	57.72
TCCATCTTGCAAGTATAGAAGGAA	319	56.02
ATGCCTCTGGACAATGCGAT	255	59.1
AATGATGACAGTATTCTGATTGAAGC	371	56.73
TGGAACCTCTCCAGAATCCTTCA	449	57.45
TGGAACCTCTCCAGAATCCTTCA	449	57.45
AATACGAATACTCACTAGACATCCAACA	573	57.53
GGCGGAGAGGCATTCAAGAC	68	60.68
CACGACCACCGTACTCTACAATG	111	58.19
AATCAGAACTTATGGCTCGTCTCA	335	58.1
TGCGTCGTAATCGTTGCTATC	334	57.56
GACTCGCTGTATTCTCCGCTT	733	57.33
TTCTTCGCAGACCAGAGCAA	1574	58.32
CAATAAGGCAAGTTGTTGAGGTT	400	56.26
ATGCCGCCATTCTTCACTGA	119	60.18
GCTTACGGTCATATTATTGTAGTCACA	556	56.77
GCTTACGGTCATATTATTGTAGTCACA	556	56.77
GCTTACGGTCATATTATTGTAGTCACA	543	56.77
GCTTACGGTCATATTATTGTAGTCACA	556	56.77
GCTTACGGTCATATTATTGTAGTCACA	543	56.77
CACATTGAAGCAGAGGCAGGTC	241	60.75
TGATAACGATGTACGATATAATATTCCA	124	56.24
AATCAACGCCGATATTGTTAGCA	382	59.49
TATCAGCAGCGAGGAGCAGA	91	58.45
ATCCGCCACCTGTTCACTG	55	61.81
CATTCCGACGTGGTGGTGTT	77	60.24
GTCTTCCAATCGACGTCTCAG	775	56.03
TTCGAACTGTGAATTGTTCTGC	104	56.64
GAGGAATGGTGGAAGATTCAAGC	109	59.9
ATCTCAACACCTTCACCATCTACGG	58	61.36
CCAACGCAAGTTCACTATCAAG	312	56.25
GCAATTATCGCTGCTGTTCA	128	56.21
GCAATTATCGCTGCTGTTCA	307	56.21
GTCTTGACAACCAACTTCCTTCTATG	336	58.36

CTCAATGTGGAGCAACATCTTG	147	56.96
CTCAATGTGGAGCAACATCTTG	147	56.96
TTACATCAAGTTCTTCGTTAGACTGC	75	57.09
CACACACAGAAGCACTCTTGGAC	45	58.51
AATGGAGAGCAACTTATGGCA	375	56.1
AATGGAGAGCAACTTATGGCA	258	56.1
ATTATGGAGTGATGTTGATATTAACCGA	1209	59.05
AGATTATTACACAATGTCTCCGCAA	651	57.87
AGATTATTACACAATGTCTCCGCAA	580	57.87
TTCTTCATAGGCAGGCAACG	25	57.59
CCGAATGGAGAAGATGGTCA	56	57.11
GCAATGAGAGCCAAGATGATG	1333	56.97
GCAATGAGAGCCAAGATGATG	1333	56.97
TTGTTGTCATTGCAGACACCTAC	73	56.44
CGCTGATAATCGACGGTGAT	159	57.26
CTGCTGTTAGTCTGCTCGTCAA	71	57.08
TTGAGCACTGAACCAATGATGT	44	56.8
GTTCGGTAGTGTGTTATACTGAACAAG	97	56.44
AGAGAGCGTAAGACACAATACCGAT	75	58.48
AACAACTAGAGTAGGATGCAACTAGCC	59	58.62
GCCACCAACTACACGAATCATCA	566	60.72
GTCGTCTGCGTCTCTTACTATCTCC	90	58.66
TTGATATAATCGCTAGAATAACAATTGC	221	57.36
AATATCTGTGAACGACAGTGTGCA	333	58.31
TACTTGCCACCACGGAGACC	1061	59.55
TACTTGCCACCACGGAGACC	245	59.55
CCGTACATGGCTATATGGTTCG	2509	58.03
CCGTACATGGCTATATGGTTCG	2509	58.03
CCGTACATGGCTATATGGTTCG	2750	58.03
CCGTACATGGCTATATGGTTCG	2750	58.03
CCGTACATGGCTATATGGTTCG	2652	58.03
CCGTACATGGCTATATGGTTCG	2652	58.03
CCGTACATGGCTATATGGTTCG	2696	58.03
CCGTACATGGCTATATGGTTCG	2696	58.03
CCGTACATGGCTATATGGTTCG	2777	58.03
CCGTACATGGCTATATGGTTCG	2777	58.03
TTACCACCACAGCCACCTAGTAG	89	57.03
CCGTACATGGCTATATGGTTCG	2645	58.03
ACGAGGAAGATAATGACGAATGG	352	58.15
TTCATGGTTCAACATTATGTATTGTATC	1087	56.43
ATTGTAATTGGAGGAGAAGTCTCTGTT	129	58.01
GCTGGCTACGGCTATCTTGA	85	56.84
GCTGGCTACGGCTATCTTGA	159	56.84
ATGAAGATCAACTCGAAGAATTCTTG	109	58.1

TATTCATCGGATTCTATAAGCCAAG	104	56.82
GCTTCGTCCTGTACTACGGCTT	683	58.6
GAATCCAATAATACGCTTACGCA	934	57.12
GCTTCGTCCTGTACTACGGCTT	683	58.6
GCTTCGTCCTGTACTACGGCTT	683	58.6
AATCCAATAATACGCTTACGCATC	936	57.46
GCTACAAGGAGAACAGTGGCA	1185	56.69
GCTACAAGGAGAACAGTGGCA	447	56.69
TGAATACCGATCTGCCAATGC	223	59.51
GATAATATGGTGTTCACTGACGCA	835	60.23
CGTGGACAAGGCAGTTCGTT	116	59.73
CGTGGACAAGGCAGTTCGTT	116	59.73
GGCTGTCACTGAACGAATCG	951	57.89
CCGAGGATATGGTCAACGAG	566	56.68
CAGCGAACAACAATGGAGCA	2296	59.42
AATACTTGCTTCTATCACAATCAACTCA	973	57.75
AATGTTCAATCAGCCACCAATG	119	58.42
TTATTCCGACAATTGGATCCATT	65	58.24
GCTTACTCTGTTACCGTTCTTGG	937	56.04
AATGCTCAATGGCAGTGAGTG	127	57.43
GGCATCTTCATCAGTTACACGAG	536	57.5
GGCATCTTCATCAGTTACACGAG	408	57.5
CCGCACTACTCTCCACGCAA	69	60.93
CGGTCTTGCTGTTGGACA	1191	59.3
GCTTGAGCTATGGATGTATGGAA	136	57.06
GCTTGAGCTATGGATGTATGGAA	136	57.06
GCTTGAGCTATGGATGTATGGAA	136	57.06
GCAATACTACCTGGCGGAATG	1204	58.21
ATTGTTGCTCTGTGCGTCGT	803	57.98
CATAGTGGACGAATAGGTTCTTCAAG	188	61.22
TGGTTGCCAGATAATGCAGTCG	589	61.82
CGACAATCCGAATATTGCCA	895	58.04
GGAGCACTTGAATCAGCAATACC	833	58.76
TGGCACTCTATTGCACTTGGC	550	57.93
GAATCAGAGAATCAATACGCACAG	75	56.74
ACCAACACAATGTTCACTGC	311	58.53
GTTATTATAACTTACGACGCTGCACTTC	535	58.89
TTGGATACTGTATTCACTTGGCA	551	57.4
TGCCAGATAATGCGAGTGAA	597	56.5
TCATGGTTCCAGCATACTTGG	463	57.16
AAGAAGCCGATCCAGCAACA	188	59.4
CATACTGTGCTGTTGTTCTTCTTC	370	57.45
TTCACCAGCTCACGTACATCTC	1306	56.55
CCGAAGCAGTTGACTAACACCA	73	58.88

CCGAAGCAGTTGACTAACACCA	35	58.88
GCTTATTGGATGCGGAGGAA	137	58.72
TTATTATTCACACATTGTCAACAGTCTT	277	56.34
TGAAGGATCCGTTGATGAGG	351	57.11
TGGAAGAATACCACTGTTGTCACT	413	56.47
TGGAAGAATACCACTGTTGTCACT	433	56.47
TGGAAGAATACCACTGTTGTCACT	492	56.47
ATTGTGGACGCACCTCCAGT	320	59.02
CGGAGGCTGTGAACAACCAC	795	60.12
GAGAAGATCAGATTCAGGATGAAGATG	499	59.6
GCTTGAGAACTGGCGAGAACT	233	57.42
AAGGTTGTGCTCTCGCTGAT	170	56.2
AGCGAGGACAAGTGGCAGAA	272	59.57
GTGTACGGAGCCAAGATCATACG	421	59.51
AGCAGAGCAATGTCGTTCTG	84	57.16
CTCAGTGGATGTCTTGCGATG	427	57.91
CTCAGTGGATGTCTTGCGATG	427	57.91
AATGATTGGAAGTGTTCAGGTG	337	56.77
AATGATTGGAAGTGTTCAGGTG	28	56.77
AATGATTGGAAGTGTTCAGGTG	1037	56.77
TCTACACCATCTAAGAACTTCCACTG	313	56.88
CGTTGGCTGTTGGTAGAATGAAG	1701	59.64
CCTCCACATCCGAGAGATCC	29	58.06
CGTTGGCTGTTGGTAGAATGAAG	1698	59.64
CGTTGGCTGTTGGTAGAATGAAG	1699	59.64
CCTGCTCGGTCATTATAAGTGTT	222	56.23
CCTGCTCGGTCATTATAAGTGTT	443	56.23
GTAACGGATGTCGGCGGAGT	62	60.84
GTAACGGATGTCGGCGGAGT	77	60.84
GTAACGGATGTCGGCGGAGT	106	60.84
CGTTGTCCAATACATCAAGAAGAGAG	122	59.23
CGTTGTCCAATACATCAAGAAGAGAG	341	59.23
GCTGCTCAAGTTGCACTTATTCATC	681	60.24
GTGGACATGCGAGCTATGATG	1528	57.8
ACCACATCAGCATAGTTCTGTCGTT	507	59.94
ACCACATCAGCATAGTTCTGTCGTT	513	59.94
GTCTTGTGAATATGAAGCCGAAT	3464	56.13
CACTCTCCAGATTCACACTCTCTG	210	56.82
AACATACATCCAACAGCTACTATTCTG	788	56.8
TTCCAATGGTCTATATTGTAACATATCC	901	56.84
GGTACCAAGCCAGACTATGCA	66	56.47
CTTATAGTTCAATCGTCTGATGATGCT	745	57.27
GTATGCGTTGTTGCGAGAGA	220	56.15
TGATGAAGGATGAGCCATCG	123	58.19

AGGATTGTGTTACTTCGTGTGCT	147	56.63
TTGGAAGAATACCGAGGAACCTG	352	60.27
TTGGAAGAATACCGAGGAACCTG	352	60.27
AACATCGACTTCATTAGGTGATAGACA	61	58.28
GCTTCATTGCTTGCTGTAGGA	139	56.89
GTGCCTCCACATCGTCTCCT	299	58.7
CGGTTGCGTCTATGTTGAGTT	671	56.53
GATGTCCTCCACCACCACCT	143	58.23
TATCTATTACCTATTGATACAATCGCA	903	58.24
CTGAAGAAGGCGTTATTGATTGG	585	58.79
GCAAGGAGACACACTGAATCG	242	56.99
CACTTGTTCTCATTGTGGCTTGA	487	58.87
GGAATGACAATTATGTCACTGACTG	646	56.39
GGCGTGGACAGTCACTGGATT	167	60.9
TTCGCTCTTAACGCTCATCG	404	57.88
AAGTCGGATCGGATGTCTAATTGAG	98	60.6
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TCCATCAAGAGCCACATCAAGA	882	59.26
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TTCCTCAACTTCGTCTACCTCTTC	539	56.95
TTCCTCAACTTCGTCTACCTCTTC	653	56.95
GCCACACGAACGCTTATCAG	2033	57.99
GATCAGGTTGTTGTTGGATGG	566	56.41
ATGAGGATGATGCTTATGAGGATGA	676	59.78
ATGAGGATGATGCTTATGAGGATGA	676	59.78
GCAGCTCTTAATCCTGTTCAACA	613	57.33
AGCAATAGCATCTCCACTACTCTACTCA	1909	59.13
CCATAACAACAATAACAACACGGA	1355	57.56
CCATAACAACAATAACAACACGGA	1289	57.56
CCATAACAACAATAACAACACGGA	1278	57.56
CCATAACAACAATAACAACACGGA	1371	57.56
CCATAACAACAATAACAACACGGA	1289	57.56
CCATAACAACAATAACAACACGGA	1382	57.56
CCATAACAACAATAACAACACGGA	1250	57.56
GAATGCGATGTA ACTCTCACGGA	316	60.09
AAGAGGTTCTACCGCCATGC	48	57.88
GCCATCTGCTGTCTGACTCCA	78	59.97
GGAATCGCCATTGACAATCG	299	59.86
AACGATAACGCTATCGACAATCG	71	59.17
CGGATCATCGCTAGCAGATC	301	57.07
CAGATCACATGCTTCTGATGAACG	1592	60.62
CAGATCACATGCTTCTGATGAACG	1603	60.62
ATCCGATTCTCCACAAGAAGC	652	56.96
CTTGTTAGAGATGCCGTCGAGAGA	282	60.81

CTTGTTAGAGATGCCGTCGAGAGA	282	60.81
CTTGTTAGAGATGCCGTCGAGAGA	256	60.81
CTTGTTAGAGATGCCGTCGAGAGA	256	60.81
CGTCTTCTTCGTCTACTTCCTCA	555	56.58
AGGAGATGTTGCTTGCGAAC	313	56.61
CAATCAGGAGAATCACAATCGC	955	58.26
CAATCAGGAGAATCACAATCGC	817	58.26
GCAATCACAAGAGTTCAGGCTAA	219	57.33
TTGAGCAGCTTGAGAGACAGC	115	57.18
TTGAGCAGCTTGAGAGACAGC	115	57.18
TTGAGCAGCTTGAGAGACAGC	108	57.18
TTGAGCAGCTTGAGAGACAGC	108	57.18
TTGAGCAGCTTGAGAGACAGC	108	57.18
TTGAGCAGCTTGAGAGACAGC	207	57.18
TTGAGCAGCTTGAGAGACAGC	207	57.18
CTCACGAGGATAAGGCTGTTATGGTT	1284	61.67
CTCACGAGGATAAGGCTGTTATGGTT	1284	61.67
AGCCAATCAAGACAATAGGAGAGA	650	57.27
ATGTTTCATCCGACAACTGCCT	1240	58.12
CTGGAATCGCAAGAATGACC	366	56.8
CGAGCCAAGCGGATATTACC	215	58.29
ACGGCAGCAGGAAGTCATCA	328	60.37
TTCTTACGCGCGATAACAGC	41	57.83
TTAACGAGACTACGAGCTTCCTCA	50	58.4
CGAATGACTTGAGACTAGATGCG	61	57.78
TTCCGCATGTTATTCTAACTTGG	840	57.07
CATGCGAATACTGGACATCTCA	161	57.32
AATGAGCGATGGCACAGAGT	311	56.94
ATTATTCTCGTTATGCTCGTACTGCT	41	57.84
GAGATGCAGAACATTCGACACC	581	58.25
TATGTTCCATACAACATGAAGATGTCC	1705	57.68
GCCACACGAACTCCAGAACG	1269	60.26
GCCACACGAACTCCAGAACG	1170	60.26
CCGATGTTGTCCACTTCTCAA	93	57.25
CGATTAGCAGAGATGCAGGCA	169	60.08
AGAAGAGGTTGAAGTTGATCGG	2056	56.21
GGAATAACTTGAGACAGATTGTTGGAA	284	59.77
AATCATCGTCAATGGCCTAAGTAAG	174	58.67
TTATGTATCAGTGGCTACGAACGA	785	57.56
TTATGTATCAGTGGCTACGAACGA	735	57.56
GGAATTACAAGTTATGGAGCTGATG	760	57.08
GGAATTACAAGTTATGGAGCTGATG	610	57.08
GATTGGTTGTTCCAGGCGTGA	49	61.74
TTGGCTGAATTAGCTGCATTCG	439	61.13

CGACTACGGACAGACTTCTATCATTG	139	59.25
TGAGAGACAGCGATACCAACG	1399	57.58
GAACAGCAGAGCAATCTCATCA	586	56.77
AAGCCAGGACAATACCACCAG	407	57.66
AAGCCGAACGAAGGAAGAGG	78	59.42
GGAACTCTTCAAGTTGATGTTCG	557	56.66
ATGCCTCGTATCAATGTTCGG	153	58.53
CAGTAATGCCAACAGTGAAGCG	628	59.4
AAGATTATTGCACAGAGCAGTGG	470	57.22
ATGTGCCAAGAGCCGTCATG	288	60.63
GCAGTCAATGTATCTTCCGTGA	206	56.45
TTCCGATCAAGAACCAGAGATTC	340	58.32
GCCACAATCAAGAACTAGAGATTCCAT	276	60.92
CCGACAAGAAGCACCACAAGA	554	59.86
CCGAGAACGACGACGAGAAG	617	59.57
CCGAGAACGACGACGAGAAG	429	59.57
CCGAGAACGACGACGAGAAG	578	59.57
CCGAGAACGACGACGAGAAG	503	59.57
CGTCTTCTTCACCGCCACTT	832	58.92
ATAAGAATGTCAAGTGCGTGTGC	658	57.95
TTCAGAAAGTCGAGTGTCCTGTC	277	57.19
TTCAGAAAGTCGAGTGTCCTGTC	204	57.19
TTATTCTCAGCCATATTCGTGACA	42	57.48
CAGTTGATACCGCTCGTGCT	523	57.59
CAGTTGATACCGCTCGTGCT	541	57.59
GCAGAGTATGCTGACAGGAAGAC	1121	56.87
AACTGCTGCACACATTCTAGGC	597	58.15
AAGAGACATGCTCTGATTACTGTCA	83	56.05
TTCTTCAACAACGCGACGAA	48	59.03
ATTGAGTGGTGGTTGAGGCA	45	57.58
TTGATCAATGTCACAGATAAECTCAGTT	83	57.1
ACATCCACCACCGTCTCGTT	880	58.87
ACATCCACCACCGTCTCGTT	880	58.87
ACATCCACCACCGTCTCGTT	936	58.87
ACATCCACCACCGTCTCGTT	820	58.87
ACATCCACCACCGTCTCGTT	876	58.87
CAGTTGAGCCACTAGATTGTCCAG	487	58.95
GTGACAAGTACACACTGGTTCAGC	667	57.46
CTCGCAACAATACAGGAATCATCG	618	61.58
GCATTCCGATATTCTATTGTGATTG	1229	57.71
GCATTCCGATATTCTATTGTGATTG	1261	57.71
GCATTCCGATATTCTATTGTGATTG	1060	57.71
GCATTGGCAACTATTAAGGAAGC	230	58.05
ATGATTACTAATGCAACAAGCGTTGA	373	59.91

AAGTGAGAAGGAGACGATTATGAGC	949	58.19
GCTTGTGAGCGGATTATTGC	2322	57.08
ACCGTTCGCTGTGATGTCTG	127	58.32
TTGATATGCCATTGCCACAGG	733	60.29
ATTCCAAGCAGATCGTGATTG	633	56.37
TGGCAGCAGTGGAGAAGGAC	1024	59.96
AACTGGTCCATTGGATACAGAGA	307	56.34
AACTGGTCCATTGGATACAGAGA	307	56.34
GCACTGCTATTGAGACAATTATGG	274	56.73
AACTACAGGACATACTCAGCTTCCTAT	362	56.27
ATGCGGTGTCTCTGCTGCTG	340	61.12
AAGTCTACCAGTCTTGTCGAAGG	172	58.86
AACATACATTGGCTCTGAACATTG	1159	56.91
TTATTCTCCTTACCAGATGAGTTGA	565	58.32
TTCCGCACAGTGTGTCAATG	225	57.68
ACAGACTCGGTTCAAGCAAGC	352	56.72
TGGATGAAGCAACTGTGAAGAGA	419	58.57
GCATTCCACAAGCCACTACTATC	183	56.61
GCATTCCACAAGCCACTACTATC	187	56.61
ATAGCACTTCTACTCGCTGTCTAG	58	56.51
GCATTCCACAAGCCACTACTATC	67	56.61
GCGGCTCTATCTCGTATCATTCC	213	60.03
TCGGCGTTGACCATACAGTT	419	57.69
TCGGCGTTGACCATACAGTT	110	57.69
AAGAACGCTGTGAATGCAATG	27	57.51
TTCCATATTATCCTCCACTGTTCC	60	57.14
GCATTGGAACCTACCTGGATGACTT	503	59.39
ACTCAACGATCAGTTCACATTCC	199	60.22
CAGTTACCGGAAGAAGAGAATACG	432	57.3
GGAGCCAAGATTCAGCCAGT	320	57.93
ATATGATGTGAAGCGGCTGGCT	360	61.74
GTTGCGATGACTATTACAGACAGG	886	56.69
GTTGCGATGACTATTACAGACAGG	1323	56.69
GGATTGTCCATCGCTACCAT	244	56
GGATTGTCCATCGCTACCAT	681	56
GGCTATCCAATCGCAGGCTT	196	60.14
GGTAGTGCGTGGATCTTCATACAC	897	58.58
CTTGGCTCTTCATGAGTTCTCC	902	56.77
CGACTTGCGATGTTCTTGATG	25	57.97
TTCGATTGTCAACGGACTTGT	674	56.79
CGTATTACATTGCTACTATGTCACACTT	620	56.17
TTGTCTGCTCATATCATCTCAATACC	1012	57.47
ACACTTATTATCCGAATGTCACTGTT	57	56.18
AATGTCATCTTATCGAGTTCCACTT	195	56.24

CTGTTACTCAGGACTATCGAATTAGTCG	190	58.93
CTGTTACTCAGGACTATCGAATTAGTCG	244	58.93
CGACTCCTTGAGTACATGAGCCA	87	60.25
ATTGGATACTGTTGCGTTGGA	969	56.71
ATTGGATACTGTTGCGTTGGA	1077	56.71
ATTGGATACTGTTGCGTTGGA	1140	56.71
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ATTGGATACTGTTGCGTTGGA	1140	56.71
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GCAAGGAGCCACGTTTCATCA	94	60.75
CACTTCGTCTTGTCGCATTG	47	56.52
ATGAAGTGAGAGAAGACTGAGAGGA	59	56.61
CTGAGAAGCGGAACGAGGTC	2601	58.61
GGATTGGCTCACGGAGTTGT	1992	58.59
TGAGCAACTTGTTAGAATGACACA	6128	56.31
AGTTGGAGCATATCGTGATGATC	191	56.82
CTTCCAAGAGACAAGTTCCTCCA	114	58.5
TGTGATGAGACTGAAGGATCTATGG	1172	58.28
TTCAACAAGCTCTTCTCATCGTCT	67	58.34
TTCAACAAGCTCTTCTCATCGTCT	77	58.34
ACAGTCGTCGTATTGGTGCTC	202	56.41
AGGCGTGTATTCGTGTGGAG	404	57.29
TTGGTCGCTCGTAATCAGGA	642	57.91
TTATCAATCAAGCCAGACATCAGA	694	57.52
CATGCGGAGGAATGGAGCTC	68	61.59
CGAGGTTTCGGCCTATAATCG	97	58.28
CGAACTTGACTTGAGTGGA	1135	56.06
GCCAGTGCTAGTTCCTATTGTGA	1501	57.22
AATCTCCATTCTGAGACACTCC	1882	57.31
CGATGAGATGGTGCTGTTATGTTG	1520	60.36
GCAGGCATTGGTAGACTCGT	905	56.49
GGAGAAGAATGAGCCGAACA	571	56.52
AGCCATCTACCTCAAGCAACG	358	58.09
AGCCATCTACCTCAAGCAACG	358	58.09
ACGGTCTGATTGAGCCACAT	86	56.62
GCTGCTGGCAAGAAGAACAG	45	57.44
GAGGTCTTGGAAAGTTCAATGGA	1207	56.86
ACAATATCATACATCGCACATAGCAT	154	57.69
TGCCTCTTCGCTTCTTGAC	1148	59.14
TTGCCACGATCAGTTGTTGC	193	59.28
TTGCCACGATCAGTTGTTGC	408	59.28
TTGCCACGATCAGTTGTTGC	249	59.28
TGTGCGGTGTTGAATGAGTG	246	57.68
TGTGCGGTGTTGAATGAGTG	246	57.68

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AGGCAGGTTCTTGGTGCTCTA	1032	57.69
GTAGCAGCGAAGACAGCAACT	158	56.17
GTAGCAGCGAAGACAGCAACT	220	56.17
TTCCAACATCGGCTCAACTC	339	57.32
GTGTGGAGCATGGTGCATCTATG	139	61.25
TTGCTTATCCAATAATTCAAGCT	1057	58.54
TCACATTAAGCTCATACAAGAATATGAC	135	56.14
ACTGGACTTGACGCAATTGG	130	57.26
CAACTGTCACTGCCGGACCT	80	59.73
TTCTTGAGGCGATAATAGACAACC	30	57.58
GGAAGTGGTCGAGGATTATGTTG	84	58.5
GATAATAACACATACATACGCACAGGAA	172	58.49
GCCAAGCTCTTACGAGAGATTTC	116	56.17
ACGGTTGGCCAGACTCGTAC	114	58.66
GCCTCTGGATTCAACAACGGT	646	58.59
GCCTCTGGATTCAACAACGGT	623	58.59
GCCTCTGGATTCAACAACGGT	646	58.59
GCCTCTGGATTCAACAACGGT	623	58.59
TCGGCACATTCTTGAAGCACA	579	61.29
TTGGATTGGTCAAGTACGGAA	1513	56.69
TTGGATTGGTCAAGTACGGAA	1513	56.69
GAGCTTATTATGCCTATCGTCAGAA	941	57.03
CCGTTACGGATAGCCAAGTTC	102	57.39
GGTCACCGATTGTCCTCTCG	70	59.09
GCGGAGATAGAGCAACTGGA	113	56.71
CACACAGGTTGCCTTGCTCA	504	59.45
AATTCCTTACTGAGGACGAGACTG	363	56.84
CGATTGGATACGGATATGATGTTC	787	58.27
GA CTCTGTGACGCAGCTCAGT	380	56.85
AATGCTTCGATTCTTGCTTC	62	57.19
GCAAGAAGAAGAAGAGCTTATGTTGTTC	73	60.23
TCGCCGATGCTACTTACAGG	554	57.62
GGCTCTGGTTCTGGTGGACA	275	59.66
GGCTCTGGTTCTGGTGGACA	482	59.66
GCTCTGCAAGCAATCACTAATACAG	441	58.36
CAACAACAACAACAACCACCACA	92	60.2
GGCTCTGGTTCTGGTGGACA	274	59.66
GGAAGAGTATTGCCTCATCAAGACT	1286	58.06
GGAAGAGTATTGCCTCATCAAGACT	1424	58.06
GCTCTGCAAGCAATCACTAATACAG	441	58.36
GCTCTGCAAGCAATCACTAATACAG	279	58.36
GCTCTGCAAGCAATCACTAATACAG	441	58.36
GCTCTGCAAGCAATCACTAATACAG	279	58.36

AAGCGACCAAGATTCAACGA	1701	57.02
ACAAGCGTGATGACATGGAACACTAC	454	59.07
ATGTCTGACAATGTTGGTCCAA	22	56.49
ACAAGGATAGAGAGCCGTGGA	37	57.49
GGAGAGCAGTACGGTGGAGA	1360	56.5
CTGGATTGTGCGGAGACTTG	208	57.89
GTTGCCTGGAAGAGATGTGC	230	56.91
CCTCCATTGCATCTGTATGAGA	95	56.39
TTGTTTCAGAGTGTCAGATATTGTG	581	57
CAAGGCGTCTACACTGCTGAA	4663	57.79
AAGACCATCGACAGACTACAGTGA	1779	56.65
AAGACCATCGACAGACTACAGTGA	1274	56.65
GCTGGTTCGCTCATCCATTG	738	60.18
CATACTGCTTCTTCTCTCCGTTCT	41	57.11
TCATCTGAAGAAGGAATGAGGAA	226	56.66
TTGTCATTGAGAAGCAGGAAGA	1074	56.3
GAGAACGAGAAGATCACTCCAAGT	729	56.85
TCAGAGAGCGGAGCCTATCG	580	59.26
GAAGAAGGCTCCGAAGAAGG	229	56.83
TTCACCTTGATGGAGATGTTGTTCA	327	58.22
CGACCATCACCAACTTCCGA	1740	60.46
GTTATTGTGCTCAACGATTACGCA	324	60.01
CGGATGTGGCTGGATTGAGA	234	60.57
ATCTTCGACGATCAACAGAACA	83	56.02
CTCCGAAGAAGGCTCCAATG	237	58.46
CAGAGCACTATTGACGATGGC	311	57.06
CAAGGAAGAGATTCTGAAGAGATATGAG	510	58.31
GCTCAAGAAGTTGATGTCAGAGAG	394	56.18
TTGAAGAGAATTCGAAGTGGAGA	65	56.86
GCTCGGTGTTATCAACTCAATG	37	56.03
CTACGGAACAACCATCGCCAT	308	60.68
ACCTTCGTGTGCTTATTGCTTC	580	57.21
GGAGAAGGACTCGCTCGAAT	1346	57.15
GGAATATCGGAGCGGCTAGGT	280	60.36
TTGCTCAACGGACTIONATGCTC	648	56.74
AGCTGATAAGAATGATCTTCCGTAC	1059	56.08
GATCCGCAAGATCAGTGACC	288	56.68
GGAATTGGTTCTTCTCTCTACACAA	51	56.79
TTACTTGTTCTATGAACCTGTGCTCA	492	56.23
TACTCTCTGGATTGTTGGTCTGG	273	56.96
TTGATTGCAGAGCATGTTCTTG	1463	57.64
TGGCTACTCTGAATGGTTCACAATG	26	61.16
AATTGGCTAACATTGTTCTCAATCATAG	314	58.99
AATTGGCTAACATTGTTCTCAATCATAG	257	58.99

CATCTGTGATAATACCGATACAGTGAC	2172	56.92
AGGCTTATGATGTGGCTCTACG	695	57.18
AGGCTTATGATGTGGCTCTACG	695	57.18
AGTGGTAGATTGTGACGAGACATTGG	361	61.39
GGCAATCTTACCGATTCCGT	1845	57.61
GGACAATGAGACAATGTGCCAGT	2599	59.87
GGACAATGAGACAATGTGCCAGT	2598	59.87
AACTGCCGTGGTGACTGGAG	289	59.73
AACTGCCGTGGTGACTGGAG	436	59.73
TATCAAGTAGCATCAATGAATGGAACA	545	59.75
ATGGTGTGAGCTGGCAGATG	852	58.27
TGAGCAACGAGAGACACGAGAG	71	59.37
GTCGCCATCCTTCTCCGTCT	173	60.17
TAATGTGGCTGCTACAGTATTACAGA	952	56.2
TAATGTGGCTGCTACAGTATTACAGA	952	56.2
TAATGTGGCTGCTACAGTATTACAGA	478	56.2
TAATGTGGCTGCTACAGTATTACAGA	958	56.2
TAATGTGGCTGCTACAGTATTACAGA	958	56.2
TAATGTGGCTGCTACAGTATTACAGA	484	56.2
TAATGTGGCTGCTACAGTATTACAGA	952	56.2
TAATGTGGCTGCTACAGTATTACAGA	952	56.2
TAATGTGGCTGCTACAGTATTACAGA	478	56.2
TAATGTGGCTGCTACAGTATTACAGA	958	56.2
TAATGTGGCTGCTACAGTATTACAGA	958	56.2
TAATGTGGCTGCTACAGTATTACAGA	484	56.2
TAATGTGGCTGCTACAGTATTACAGA	952	56.2
TCAACTGCTTCATGCTCAATCG	1337	59.97
TTCCACTTCTCATTGTTCTCCGA	76	59.69
GGTCAAGAAGTGGATATTCGGAT	1015	57.18
CATAGGTGATAACATATACGGAGAAGC	377	57.52
ATG TTCAGTTAATCATCCACTGTTCA	448	57.71
ATG TTCAGTTAATCATCCACTGTTCA	97	57.71
ATG TTCAGTTAATCATCCACTGTTCA	267	57.71
TCATCGTTCATCAGGAAGCG	122	58.39
GATTCCTATTATCCTGGAGTTGATTC	340	56.59
ATATTCACTACCACGAGACGAACA	559	56.55
TTCTCAATTGGCACTTGTCGT	182	56.94
GTTGAGATGGTGAATGGCAGA	672	57.18
TGATCCTTGAGAGGTTACCATG	994	61.15
ATTACACCTCTTACACCTCGCTGA	77	58.04
AAGTATAGCGGTCCTCTTCGTG	933	56.38
GGCTCACCTGCTCCTTCTTC	345	57.66
GAGCAATCACATACGGAACACC	67	58.05
CGGTGAGCGTATTGAAGAGC	780	57.2

CAAGTATTCCACCGCCGTCT	288	58.66
CGAAGAAGAAGACGACGATGTG	938	58.59
GATCGGTTGGACACTGGAGTAAG	289	58.63
GGAACAGCAGAAGGCAGAGGT	428	59.46
GGAACAGCAGAAGGCAGAGGT	416	59.46
TATTGCCGTAGAGATTGCTGGA	667	58.47
TATTGCCGTAGAGATTGCTGGA	562	58.47
TATTGCCGTAGAGATTGCTGGA	710	58.47
TATTGCCGTAGAGATTGCTGGA	575	58.47
TTCGTATCAGCGGTGAACGC	681	60.74
AGCAGCCGACTCCGATTGAG	1072	61.38
GGTCTTCAATTCTCAGCAATCAATG	1446	59.95
GGTCTTCAATTCTCAGCAATCAATG	1446	59.95
TTGCCGGAACCTAATTCAAG	420	56.48
CGAATTCTCTGAGCAACTCGTT	96	57.38
TTGATGACAGCCAATTCACAA	337	56.23
TCTATCTGTATATTCGGAGCCGCTTC	149	61.79
TCTATCTGTATATTCGGAGCCGCTTC	149	61.79
TCTATCTGTATATTCGGAGCCGCTTC	155	61.79
TCTATCTGTATATTCGGAGCCGCTTC	116	61.79
TGCCGAGACCAGAGAAGAATG	532	59.01
TGCCGAGACCAGAGAAGAATG	680	59.01
AACAAGTGTATGGCGTTGAAGGTA	70	58.66
TTATTAGGTGGAACGATATGGAGAA	578	56.99
TTATTAGGTGGAACGATATGGAGAA	641	56.99
TTGGTTATCGGAGCTTGTCG	61	57.44
CATGTTCCGGTCCAATGTGCA	34	59.94
TGCTTACACTGCTTACGAATGG	611	56.8
CAGAGGCACAACACAAGCATC	1624	57.96
CAGAGGCACAACACAAGCATC	165	57.96
CAGAGGCACAACACAAGCATC	1231	57.96
CAGAGGCACAACACAAGCATC	165	57.96
CAGAGGCACAACACAAGCATC	165	57.96
CAGAGGCACAACACAAGCATC	165	57.96
CAGAGGCACAACACAAGCATC	1369	57.96
CAGAGGCACAACACAAGCATC	1369	57.96
CAGAGGCACAACACAAGCATC	1369	57.96
CAGAGGCACAACACAAGCATC	1369	57.96
CAGAGGCACAACACAAGCATC	1231	57.96
CAGAGGCACAACACAAGCATC	1231	57.96
CAGAGGCACAACACAAGCATC	1231	57.96
CAGAGGCACAACACAAGCATC	1486	57.96
CAGAGGCACAACACAAGCATC	1624	57.96
CAGAGGCACAACACAAGCATC	1624	57.96

CAGAGGCACAACACAAGCATC	1624	57.96
CAGAGGCACAACACAAGCATC	1486	57.96
CAGAGGCACAACACAAGCATC	1486	57.96
CAGAGGCACAACACAAGCATC	1486	57.96
GCTGAACTATCCGAGACCACTATC	102	57.16
TGACACAGATCAAGATGAATATGGAGA	53	59.85
AGCACCTGAAGGAAGGACAA	182	56.02
GGTCCTGTTGGTGTGGTGT	2307	56.74
CAGCGAAGCAAGAGGCAACT	76	59.35
GCAGGTTCTTGACATTGAGC	46	58.39
AACTGATGATGGAAGCTTATTACTGC	789	57.26
TATGCTCTTCAATCCGTTCTCTT	161	56.03
GGAACGAGAGAGCAGCACTG	1006	57.35
GGAACGAGAGAGCAGCACTG	851	57.35
AGTCCACCATCTGCTCCAACA	338	59.15
AGTCCACCATCTGCTCCAACA	246	59.15
AGTCCACCATCTGCTCCAACA	321	59.15
AGTCCACCATCTGCTCCAACA	273	59.15
TTGATTGAGTCAGTTGCTCCAGA	701	58.57
TGTGACGGTGGCATTCTTGT	225	58.58
GTGTGACGGTGGCATTCTTG	97	58.58
TGCTGTCTCAATGCGGATCT	189	57.99
GACAACCATATCCGAATCTTCACTC	179	58.91
ATGTCTTCAATGGCAGTCGCA	673	60.23
ATGTCTTCAATGGCAGTCGCA	519	60.23
ATGTCTTCAATGGCAGTCGCA	502	60.23
GCTGGCTCTGGACAAGTTCA	650	57.61
CGTATTGGAGTGGAGACTGACC	274	57.26
GGTCATGGTGTATATTGGAATTACCG	301	60.36
CGACTACCACTGCTCTTGATGC	155	58.61
GAATTACGACTAGATTAGCGACAGATGC	2447	60.71
GGCAGAATGTCTACCAATTATTCTAGA	812	57.28
ATTCGTGGAGTTGTACTTGATGTTG	631	58.18
GATACGTTGCACTGCATCCG	613	58.75
TGAGCATGGATATAAGTCGATTGG	440	58.99
ATTGGAGTGGATACCGCAGTT	276	57.16
TTCTGTTGTATGTCTGTCCAATGCA	194	60.38
CTCTGGAGCTGGCTGGAAGT	257	58.22
TTGCTCAATGGAATTGGAGTTC	211	57.78
TTGCTCAATGGAATTGGAGTTC	214	57.78
TTGCTCAATGGAATTGGAGTTC	160	57.78
TTCAGCTTGACCTGGTCTGTC	736	56.55
TCGACATCGACGACGAGTTGT	88	60.28
AATTCACAAGTGTAGTATTGTCATCTGA	803	56.37

TTGAAGAAGACTCCACAGATACTTGA	145	57.37
TTGAAGAAGACTCCACAGATACTTGA	152	57.37
GCTCTCCAACACTACCGCCAT	1153	60.1
GCTCTCCAACACTACCGCCAT	1659	60.1
GCTCTCCAACACTACCGCCAT	1415	60.1
CCATTACAGCTCAAGGATCTGG	530	61.78
GTCGCTATTGTTACGCAGA	373	56.15
GTCGCTATTGTTACGCAGA	398	56.15
GGTGTCGGTTACTCGGTTTCG	858	59.04
GGTGTCGGTTACTCGGTTTCG	863	59.04
AACTCGCCATTGAATCCAGGA	448	60.39
GCGGTCTTGGCAGCGAGTAC	281	61.79
AACTGGAAGAATCGGAGATCCT	280	56.96
GACAGAGCAGCAGCGAAGTC	224	57.51
ACAGTAGAGCAGCAGCCAGAA	65	56.6
ACAGTAGAGCAGCAGCCAGAA	83	56.6
ACAGTAGAGCAGCAGCCAGAA	96	56.6
CTGACCTTGGAGACTGTGATGG	2004	58.25
CTGACCTTGGAGACTGTGATGG	1994	58.25
CTGACCTTGGAGACTGTGATGG	1994	58.25
ATGAGAGGAATATCTATCACCTGCGT	293	59.43
GGATGACAGAGCACAAGTACAAGG	5454	58.82
GGATGACAGAGCACAAGTACAAGG	5452	58.82
GGATGACAGAGCACAAGTACAAGG	5434	58.82
GCATTGATTGTCGCCTTGATTC	1280	60.4
CTTGCTCGTCTCGTTCCATT	563	56.62
CTTGCTCGTCTCGTTCCATT	278	56.62
CCACGAGGAAGATGAGAACG	283	56.92
TTGTGGTGACACGATGAATAAGC	2008	58.62
TTGTGGTGACACGATGAATAAGC	1858	58.62
TTGTGGTGACACGATGAATAAGC	1959	58.62
TTGTGGTGACACGATGAATAAGC	1873	58.62
TCAAGGAACATCGTCGGAAG	214	57.33
GCTGGCGTCACTGTGTACGA	41	59.48
AAGAGGAGATGGAAGAGATTGAGGAA	1620	60.79
CCAACATATGGTCATGGCAAG	71	57.43
CGCACATCGGAGAATTCGAG	78	60.31
CTGGTGTGTGACGACGGAGA	488	59.28
CGAAGGCTGCTACGAACGAT	651	59.07
GATCAACTTAATCGCCAGAAGAATG	203	59.17
GATCAACTTAATCGCCAGAAGAATG	203	59.17
GAACAAGACAAGTGAGAAGGAACAG	375	57.33
AATAGAGGACGATCTTGTTGCG	55	57.15
TTCGCCTATTGGCAATTCTG	48	57.47

TGTCCATGAGGAAGGTGTTCTG	838	59.54
TGTCCATGAGGAAGGTGTTCTG	911	59.54
AGATGACACCTATGAACGACTTGC	769	58.34
CAACGATGAGAATGCTGACAAG	666	57.11
GCAGTCTTACCACAGCCGTCTC	296	59.9
GCAGTCTTACCACAGCCGTCTC	296	59.9
GCAGTCTTACCACAGCCGTCTC	316	59.9
GCAGTCTTACCACAGCCGTCTC	362	59.9
CAACGATGAGAATGCTGACAAG	574	57.11
GCAGTCTTACCACAGCCGTCTC	362	59.9
CGTCACACAGCCACTTCAATG	138	58.79
CTACTTCTTGCTACGAGCGTCTTG	587	58.59
CTACTTCTTGCTACGAGCGTCTTG	676	58.59
CTACTTCTTGCTACGAGCGTCTTG	370	58.59
CTACTTCTTGCTACGAGCGTCTTG	547	58.59
CTACTTCTTGCTACGAGCGTCTTG	587	58.59
CTACTTCTTGCTACGAGCGTCTTG	676	58.59
CTACTTCTTGCTACGAGCGTCTTG	584	58.59
AACTCTGGACAACAGGCACTG	1648	56.49
AACTCTGGACAACAGGCACTG	1504	56.49
CAACAGCTTCAAGCAAGAGAGAA	965	57.7
TTGTCAATGATGATGCTATCTTCA	52	56.09
TTGAGCTTACATATGAATTCAATGAACA	182	59.05
TTGCTGCATCATTCCAGAACC	74	59.65
AGTGGAGCAACATGGTGCAA	57	58.73
TTCACCAACTTCTTCTACCGACTT	32	57.24
AGAGGAATCTGAGAGAGAATGAGC	685	56.22
GCAGTCACATCCATAATCTTCAAC	139	56.46
TGACGAAGAGGACGAAGAAGATG	439	59.47
TGACGAAGAGGACGAAGAAGATG	439	59.47
GTCGACACAAGCTTCTGCCT	33	60.39
GCACAGCCGAGAATCTGATGT	31	58.9
TATCTCCAACGAAGAATATGCTGA	849	56.78
TATCTCCAACGAAGAATATGCTGA	975	56.78
TATCTCCAACGAAGAATATGCTGA	1124	56.78
TATCTCCAACGAAGAATATGCTGA	957	56.78
GAGGCTTCAGGATTACAAGAGGA	1024	57.67
GGTATTCGATATTTCAGAGGAATTGTC	432	57.35
GGTATTCGATATTTCAGAGGAATTGTC	711	57.35
AAGTTCAGGCAGCGATGGAG	1149	59.02
AAGTTCAGGCAGCGATGGAG	465	59.02
AAGTTCAGGCAGCGATGGAG	465	59.02
AAGTTCAGGCAGCGATGGAG	1149	59.02
CAACAACCTCCAGAATACAGCCA	362	56.52

CAACAACTCCAGAATACAGCCA	1112	56.52
CCTTCCAACTCCAGCAACTC	110	56.02
ACTTGTTGAGGTTCTATGTGAAGCA	479	58.08
CTCAGAAGCTCGGAATCAGG	885	56.27
AGGATTGTGATGGAAGAGGCA	483	58.19
CTGGCATGTACTATATGGCTACGC	790	58.78
AACTCCATTGAGCGATGACGAT	248	59.56
AAGGTGATAGCCAACTGATACTGAT	725	58.24
CGTCGTCATCTCATTCCATCCT	321	59.91
AAGCGGAATAATATCAATAGTGGTG	68	56.65
TCAACTGAGCAAGTGTGGCA	59	57.55
TGTGTAAGGCTGCGGCGATA	83	61.24
GCGAAGGATGATGACGACGA	332	60.72
CGAGCTGCCACGTAGTCTCT	706	56.91
AATTGTATGTCAACGCATGAGAA	1142	56.02
AATTGTATGTCAACGCATGAGAA	1142	56.02
AATTGTATGTCAACGCATGAGAA	1148	56.02
CTCAGCGGCGGTCTTACTCT	136	58.3
TTAGCACCTGCGTCTCGATG	137	58.62
TGACGAACCAGAGCCTCAAC	4854	57.45
TGACGAACCAGAGCCTCAAC	4854	57.45
TGACGAACCAGAGCCTCAAC	106	57.45
GCGTTCTTCTTGGCACCGTA	920	59.84
GCGTTCTTCTTGGCACCGTA	761	59.84
GCGTTCTTCTTGGCACCGTA	542	59.84
CTGCTGTCACTGTTCTGATTGCT	1526	58.27
CAACATCCATTCTTCTTCTGCTC	190	56.74
ATCTACCTCGTCCTTCTCTGTC	185	56.03
CGCATACAGTTCTCGTTCGTC	432	57.12
CTGAGTGGTGGCTGATGGATG	424	60.09
TGCGTCATCTCATTCTTCTCTC	24	57.31
TGCGTCATCTCATTCTTCTCTC	24	57.31
AAGGCTATGCAATCTAGATGACTCA	134	57.38
GAATCTGCTCCTGTTAATGATATTGAAG	46	58.76
GCACAGAACACAAGAATCAACG	1483	57.01
GCACAGAACACAAGAATCAACG	1483	57.01
TCTTCTTGTTTCATGTTCTTGGCT	3576	56.8
GCACAGAACACAAGAATCAACG	1684	57.01
TCGGACTTGTTGAAGATCTCTGC	126	59.48
TTCGTTGCGATGGTTCTCTT	176	57.02
TTCATCTACTGTCTCCTCTACATCGT	284	56.48
TTCATCTACTGTCTCCTCTACATCGT	268	56.48
GCAGTTCAGCTTGGAGCAAT	114	56.77
TTCGATAACTCTGTCTTCATCATCC	84	57.5

AACATTGCCGCCGTCATCTC	56	61.87
AATGCACAGAGGATATGCTCACC	258	59.1
GAATCTCATCCGACACCTTAGCG	418	60.89
ATGGTAGAGTCTTCAATCAATGGTC	730	56.48
GTCATTCATCAGTCGGTGCTC	1843	56.76
GTCATTCATCAGTCGGTGCTC	1843	56.76
CTGTTGGAATGGCAATGTGTC	763	57.52
TGGTTCGCATCAATAATAGTCTTC	594	56.26
TTATTGATTACTGTTGGAGAGGAGGAT	1093	58.6
GTTGGCACATTACTTTCCTTACCG	808	58.6
CTCCACTACTCCATCCTCCGGTT	158	61.48
CAAGAAGAAGAAGAAGCACACGAC	30	58.38
CAGACACTGGATGAGAACACTGC	161	58.46
ATTATTCATCTCCTCCAGTCAACG	580	57.38
GCCGACAAGGACAATCTTACCA	163	59.95
GGTATTCCAGTATCTTACGCCAA	1001	56.14
ATAAGATGAAGATGCGGAAGGAAT	476	58.24
ATAAGATGAAGATGCGGAAGGAAT	316	58.24
ATAAGATGAAGATGCGGAAGGAAT	449	58.24
ACCATCTTCTCTCGTCTCGCA	355	59.39
ACCATCTTCTCTCGTCTCGCA	206	59.39
ACCATCTTCTCTCGTCTCGCA	239	59.39
TTGGTGGCTAATGAGGATGGA	879	58.97
CCATTAGATATTGTGAGGACGATGAGAG	1824	61.21
CCATTAGATATTGTGAGGACGATGAGAG	1657	61.21
CACAACGATGGACTGCGATA	202	56.74
CTCTCTCTCTCTCTCGTAAGTGTAGGC	98	59.76
CCGTCTCTGGTCAAGAACAACA	88	58.83
GACACGAACAATCGAACCACA	238	58.06
GACACGAACAATCGAACCACA	238	58.06
GGAGATTATATGATGAGAGGAGAAGATG	802	57.95
CCGATTAGAGATGAGCTGTTGATG	450	58.9
TGAGAGTGTCTGGTAACAAGGCA	3516	58.51
CATTCTTGTTCTTGTGTCAGCGTGT	1219	58.05
GGCTGGCTTATGTAATCACTTGT	604	56.22
GATGATGTTGACGATGAGAAGCA	847	58.79
GATGATGTTGACGATGAGAAGCA	847	58.79
ATCAGGTGGAGGTACTTCTCATTG	1245	57.35
ATCAGGTGGAGGTACTTCTCATTG	1245	57.35
ATCAGGTGGAGGTACTTCTCATTG	947	57.35
ATCAGGTGGAGGTACTTCTCATTG	947	57.35
ATCAGGTGGAGGTACTTCTCATTG	686	57.35
ATCAGGTGGAGGTACTTCTCATTG	686	57.35
CGCATCAGCAAGGAATCACT	1608	57.51

CGCATCAGCAAGGAATCACT	1608	57.51
GATGATGTTGACGATGAGAAGCA	356	58.79
GATGATGTTGACGATGAGAAGCA	356	58.79
GATGATGTTGACGATGAGAAGCA	41	58.79
GATGATGTTGACGATGAGAAGCA	41	58.79
CGCATCAGCAAGGAATCACT	1815	57.51
CGCATCAGCAAGGAATCACT	1815	57.51
GAGCACACATTCACCACCAA	592	56.48
GAGCACACATTCACCACCAA	592	56.48
ATCAGGTGGAGGTACTTCTCATTG	819	57.35
ATCAGGTGGAGGTACTTCTCATTG	819	57.35
ATCAGGTGGAGGTACTTCTCATTG	980	57.35
ATCAGGTGGAGGTACTTCTCATTG	980	57.35
ATCAGGTGGAGGTACTTCTCATTG	844	57.35
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CCTCCTGGTGGCACTTCTTG	452	59.28
CGACGGATGGCAGGTGTTAC	562	59.95
AGGATTGTGAAGAGGATGCG	1112	56.39
TGAAGAGGCAGAGGAGAGGA	630	56.27
TAGCCAGCCAGGTGATAAGG	287	56.55
TAGCCAGCCAGGTGATAAGG	215	56.55
CGAGAGGAAGATGTCAGAGCAA	1226	58.28
GGAGCGGAAGAGCAGTTGTATG	663	59.86
TTACAACGACAATTACTCTGAACTGTC	364	56.9
GGATTGTCAATTATCAGGATGTGTAC	234	56.7
CGACTCTGGAACCTGGTGAAG	679	56.11
ATCAACCGACACCAGCACCA	657	60.94
TTCAACTCGATGAATTATGCACA	390	56.96
TTCAATGGATGGATTATGGCA	75	57.37
ATAAGCACAATCACGCAATATCAAC	1281	58.22
ATAAGCACAATCACGCAATATCAAC	1281	58.22
ATCAGCCAATCGGAAGATACTACA	432	57.88
CGTCAACTGTCTTCAATCCTGTCA	1018	60.15
ATGGAGGATTGGCGAGTGTG	1146	59.51
ATGGAGGATTGGCGAGTGTG	1214	59.51
AACAGGAAGATACGTCATCACAATG	438	58.14
AACAGGAAGATACGTCATCACAATG	438	58.14
AACAGGAAGATACGTCATCACAATG	375	58.14
GTACAATACCTGCACGCCATG	454	57.66
GTACAATACCTGCACGCCATG	310	57.66
TGTGGAAGAAGAGATGGACTGC	480	57.99
CGGTCAGTACCACCGAACAAAC	617	58.96
AAGGTGGTCATCTGTCAGGAAT	245	56.2
CAACGACTCCAACCTACGACGA	830	57.49

AAGAAGACGAGAGAATGTGCTGA	607	56.99
CGCTCTCATTGGATGTGCTC	71	57.99
TGTAGCAGCCACGACTTCATC	1724	57.58
TGTAGCAGCCACGACTTCATC	135	57.58
GATGGACGAAGTGCGGAGAA	428	59.77
ATGGCGATAGGATTGGATACG	652	57.54
GAGCATGGCGATCAGATTAGATTC	824	60.02
TTCAACTTAATTCTGAACGACCAAT	370	57.11
TTCAACTTAATTCTGAACGACCAAT	166	57.11
GAGGAAGATAAGAAGATTGCCACA	1041	57.62
ATACAGCACAGCATCGGAGAG	491	56.66
TTGGAAGATGTTGCAGTTCTACA	122	56.24
AGGATTATTACAACTACCGACCGA	1039	56.96
AATAATAATGGCGATTGTTCACTCA	1195	57.76
AATAATAATGGCGATTGTTCACTCA	1208	57.76
GATGAAGCATAGAACACTGCGTGA	119	60.26
GAGGCAACACGACGAATATGATG	1596	60.32
GCCTGTCAGATCCTTATCTCATAACC	177	59.41
GCCTGTCAGATCCTTATCTCATAACC	167	59.41
GGCATCATTGTGATCTGTAATCC	818	57.05
GAGTGCCGTATCTTCATCTGC	235	56.12
CGGAGAGGAAGACACAATGG	1192	56.76
CGTGGAATCGCAATAATTGTAGT	68	56.96
GCATATTGGAAGCTGACGTGTGA	947	60.97
GATTCACCGACTCCAGCATT	318	56.23
GATTCACCGACTCCAGCATT	318	56.23
GATTCACCGACTCCAGCATT	318	56.23
AAGAGCCGTTGCTATATGAAGC	1064	56.56
TTCGCTGGAATTCTCAGTCC	368	56.52
AAGAGAGGTGGTCGTCGTCA	67	56.87
TCATTCCATGATTGCTCAGTCTG	2340	58.79
TTGGTCAACTTCCTACTCCGA	63	56.02
AACCAAGGATTATTCACCGTTACG	214	59.2
CTACCGAGGCAGGAGAACCA	636	58.88
GTGCTCGCCAGCTTCCTCAT	349	61.4
ATGATGAGGCTGACGTCCTGT	26	58.21
TTGGAGCAGAAGGTTATAGCCT	64	56.04
CACGCACACTAAGTCAAGGCA	45	58.59
CTGCCTTGACTTAGTGTGCGT	40	56.79
TCGATCAATATGATCCTCCAAGA	808	57.26
TGTGTTGGTCCGTGGAGGTT	97	59.83
AAGGCACGACAATCCAGAAGT	288	57.4
GCTTATAGAAGAGCATGACGATGG	744	58.13
GCTCGCAGTAGTCTTAGGTATTCC	278	56.65

GATTGTGCTGTAAGACGGCTGA	375	58.98
GATTGTGCTGTAAGACGGCTGA	375	58.98
CTTCAGAGGAGCTATCAGAAATATGG	304	56.59
AACGATGTCTCAACTGATTCTTCC	938	57.46
TTCTACTATCTCTGGACAACAGGAAG	149	56.22
ATGTTACCTGTAGTGATTGTGTTGGA	465	57.66
CCTTGGTGTTGTGGTTGGCA	225	61.33
TATGACTGTATTGCGGAGTAACGG	919	59.09
TATGACTGTATTGCGGAGTAACGG	830	59.09
TTCCTGTGAATAGAATTGAAGCTCT	365	56.61
CTGGACGTGGAGGACGTGGT	125	61.91
CTGGACGTGGAGGACGTGGT	119	61.91
AAGCTGGTATGCAGCGACAA	191	58.14
ATATTGGATGATGATCTTGATGTCG	383	57.92
GTGCAGTTGGAAGGCAAGCC	50	61.65
CAACTGCTCCACCAACTACACC	432	58.24
CTATCGCCAGAACCAAGAAGG	103	57.57
CTATCGCCAGAACCAAGAAGG	106	57.57
CATCCGGAACCTGCAGAAGA	164	57.48
GATGATCCTGATGATGATGATGC	960	57.88
GATGATCCTGATGATGATGATGC	1017	57.88
GATGATCCTGATGATGATGATGC	954	57.88
GATGATCCTGATGATGATGATGC	960	57.88
GATGATCCTGATGATGATGATGC	954	57.88
CAGTTGGATAAGATGATGGCAGT	423	56.88
CAGTTGGATAAGATGATGGCAGT	423	56.88
GCTCTCGTTGTCGATATTGGA	375	56.52
TTGTGCCAGAGAGTTAGCCAT	686	56.19
AGAGAATCTCGAATGGTCGCTGA	1059	61.15
AGAGAATCTCGAATGGTCGCTGA	938	61.15
AGAGAATCTCGAATGGTCGCTGA	749	61.15
CAACCACGCCAGAGACACAT	228	58.16
CGTGTCTTGGCTGGCTCTTC	42	59.57
CACGCCGACAGTACAGCCAT	94	60.68
ATGAATTCTTGTCGAGAAGTATCAGATC	274	58.4
ATGAATTCTTGTCGAGAAGTATCAGATC	272	58.4
TTACAGAATGCGTAGTAGCATGTCA	95	57.75
CAATACAACCTTAATATAACTCGTCTCG	544	56.98
TTACTTACAACAATGAAGAAGTCCGA	552	57.29
CTGGACAGTATTGCTGTCAATGC	892	56.98
GCATACCATCAGATAACACATCAATACC	143	59.77
CGAGCATCTTCTTACAATCCACA	506	58.01
ATTCCACTAATACGGTATCAAGTTCAAC	966	58.12
AATAATGCGTGTCAAGGAACAATG	31	58.95

AGGACGATGAAGCCGAAGAC	1014	57.93
ACTTCCTCGTATGGCATAACAGC	158	57.04
TGTTCAATCAAGCCGTCATTC	790	57.27
AATGTGACGGTGATATTCAAGGAT	520	57.48
ACGCAAGTCAGACTCTCCGAA	264	58.68
AGGTGTGACGTCAATCTCTCC	81	59.2
ACGCAAGTCAGACTCTCCGAA	264	58.68
TCGTTGGATTCTGTGTGGAGT	172	56.68
CGCACGTTATCGATGGAGAT	281	57.26
TACTTGGAATCGTAGCGACATTG	424	57.96
GAGGCTCGTGTTGATTATCGTT	418	57.01
GCCAGTAACAGAACTCATTATTATGG	381	56.36
TGTGAGGCAGGTGAATGATG	219	56.59
GGAGACTGAGCCAAGGAGACC	458	58.88
TTGTTCAAGTGGCGATCGAC	70	58.3
ATATTCCTTATTCCTGGCAGTTGT	761	56.18
TTAACTGACAATGGCTTCTTGT	777	56.72
CAGTTGCGTCAAGTGTGGTTC	790	57.86
TCATCTATCGTTATGGTACAGTTGAAC	355	56.66
GGCATCGGTGTAATGTGGATT	636	58.25
TCGAGGAGATAATTGCCGATT	987	57.4
TTACTATGGCATGTCGGTGTCTC	391	57.76
GCAATTATTCGATGGCTGCT	35	56.59
CTTGGATACAGAATGGCGGAGT	368	59.09
GAAGACGCCACGATAACGATT	2353	57.82
TGAAGTCTCCAAGCAAGAAGTTG	179	57.42
ATCAATCCAATCGTTCTCAGCA	1057	58.26
GGAAGTTATCGTGATTGGATTGGA	993	60.01
CGCAATATAATATGTCTTCACGTTCT	73	59.68
CTTCCGTTAGCCTTCAGTGTTT	1131	56.82
CACATCTTGTTAATGGTAATCGTTCT	129	56.65
AGCACTCCGTTAGCCTTCA	1125	56.34
AACTCTACGACCGATCCTGATT	361	57.42
ACGACTTGAGTTGAGTGACTGGAG	43	58.58
AAGAATATGGAGCTAACTGGTACGAA	1360	57.7
ATATTGCTCTGATAATTCTCTCATTCC	1515	56.5
CAGTTGAGGACACGGATGATG	65	57.59
ACTATGGCTTCTGAATCGTCGCA	29	61.87
AATTCGGAGCAGTTCCGCAA	401	61.55
ATTCATCTGTGTGGAGCATCG	756	57.21
TTGTGTTGGATAAGAAGATTGAGAAG	1347	56.89
TTGAACAAGCCGAGGAGACT	778	56.18
TTCAGTCGGAGAATATGCGTCA	570	59.3
AATCCAATGGCTCAGTGTATTGAGA	862	59.85

AAGCTGCTCTTCGAATTGTGC	85	58.34
TTCACGAAGAAGGTTATCCTTATTATCC	44	59.26
TTGGAGTTCTACTTCGACGCTT	562	56.96
TTGGAGTTCTACTTCGACGCTT	502	56.96
TTCACGAAGAAGGTTATCCTTATTATCC	48	59.26
CCGAGGAGGCTGTGAGGAAT	705	60.16
AGTTCCACCTGCGATGCCTA	1860	59.29
AGTTCCACCTGCGATGCCTA	1866	59.29
AGTTCCACCTGCGATGCCTA	1205	59.29
AATGGATTCCGTCGTATAGCAC	857	56.79
CGAGGAGTCTATGAGGAATTATACG	702	56.46
AAGTGTGCTTCATCTGTGTATATTATGG	821	57.86
GCTGTGATAGGATTGATGATGAAG	463	56.54
TTCCAGAATTCGGCAGAGCA	22	60.43
TGAATGTGTCTGGAGAGTCTGC	23	56.56
GACAAGGACAAGAGCAAGAACGA	146	59.51
TATGAGCCTTCCTACTGATTCGG	244	58.41
CAACACTGAGTGGACTAGAGTCTGAA	477	57.84
GGCTCTGTATCAATGGTTACTCAGG	77	59.09
TAGTTGGCGTCAGAAGAAGCA	86	57.39
AATTCGACGCTCTGCACTGTC	213	59.09
CGTGTC AAGTGTGGTAATCGTG	455	57.68
TCACTGTAGAAGAGAGCAATGTAACCA	194	59.4
ATACGACGCAACTTCCTGACG	684	58.85
TCCGACTTGTGTGTGTTACCG	276	58.14
TCACGGAACCAAGGATAGTCG	556	58.64
GTCTACGCCGAGGAAGGAGGA	2605	61.53
GAATCTATCGGTACACGGATCAAGT	788	58.51
TTGTTGTGGTGGCTGATGAGA	70	58.71
TTGTTGTGGTGGCTGATGAGA	70	58.71
TCGCAACGCTCCATTTCATCT	599	60.32
TCGCAACGCTCCATTTCATCT	686	60.32
TCGCAACGCTCCATTTCATCT	1094	60.32
TCGCAACGCTCCATTTCATCT	706	60.32
CGAGAATATCGAGAAGAAGAATGGA	108	58.92
GCAGAGGATCGCACAAGGAC	112	59.39
TTCACGACGTTACTTGGACTCC	608	57.84
TCCAGGAATATCAACCTACAGTTCT	966	56.25
CATAAGCAGTTGGACAGCACA	1034	56.08
TCCAGGAATATCAACCTACAGTTCT	1026	56.25
TTCATCGGCTATTATTGCAGAGG	283	59.23
GGAGAGTTACAAGCAGGTCATCA	94	57.1
GGAGAGTTACAAGCAGGTCATCA	140	57.1
TGCTATTGGAACACATGCAGAAG	601	58.89

GCCACTTCTTGCCATCTCTC	43	56.1
CAGCATTCCGATTGTTGTCAT	1592	57.15
CAGGATTTCGTGTGCTTGTTG	524	56.35
AGGAATCCTACTCGGTCTACATCTAC	177	56.43
GGAGATGACCAATAAGCAATTCG	388	58.62
GATCCTGCAATTCCGACTGT	118	56.23
TTCTTATCACAATATCTTCATCGCTT	50	56.53
AGATACTTGATGATAAGCATCGCAT	1235	57.18
GCATACAGTCACAAGTACAGAAGAGC	1206	57.47
GCATACAGTCACAAGTACAGAAGAGC	938	57.47
AGGAGCACCACCATCAGGAA	1481	59.09
CGGTGGTGAACAGTTGAAGC	815	57.79
GACGACAGTGCGGCTTATCG	767	60.37
GGTGGTGAATCTTGTAGAAGTGTG	209	56.47
AAGAGAAGCACAGGTGTATCGTG	697	57.19
AATCTGCATTCGATGAGGCA	660	57.85
TATATGCAGATGTTGAACAACTTGAACC	28	60.43
TGTCAGTTATCATATTGGAGTTGAGCAC	147	60.56
TATGGTGGAAGATGAGCAGAAAGT	1402	56.63
GTGGTGTTCATCCGATGTCTT	580	57.5
GTTGGCATCTCCGGACGAAT	478	60.79
AAGCGACTTGATAATCATATGGATT	541	56.24
TTCTCCTGAATACGCAAGCTATCTG	552	59.88
GAGTGGTGGCACAGATAAGTACAGTT	1212	58.73
GCAGAAGCAACTACTGTATCTATCACTT	398	56.89
TCGTGGTTAGGTGGAAGCGT	356	59.19
CTCTGCCACAACCAGACCAT	106	57.16
CGGCTATTCCACTTCGACTTG	695	58.46
TCAAGTGTATTAGCTATTATGACGATTG	469	56.27
CTTATCGCCTACTCGGCTACCAA	302	60.52
TGAACCTCCACCAAGTGATCATCTATC	384	59.32
AATGTGAAGGCAAGAACTGTCTG	755	57.99
AATGTGAAGGCAAGAACTGTCTG	755	57.99
ATAGATGAGTTGGATGATGATGACTT	80	56.06
TTGTTCTCTCTGGCATGGAGT	960	56.03
ATTCTTCTATTATGGATGTGGAGGA	429	56.11
AAGCCACTCAGGTCGCAGAT	1257	58.49
AGCTATTCCAATGGAAGTCATCA	46	56.53
AAGGTTCCGACGTTTCATCTACTG	696	58.32
TTCGATGTCTGCCAATGTTCC	32	59.51
TTCAAGCTTCTGAAGATGATCTCA	205	57.01
TGAATAGCCGTGTGAGAGATCAGTT	434	60.13
GGAGCAATTCAACGGCAGAA	232	59.78
CTCCTGATGATGATGAATCGG	92	56.59

TTGTTCAACTATTGGAGTGATTGG	77	56.89
TTCTGTTCTGTGATTGGAGTTATTGG	499	59.43
TTAACGGTTCCACTCATCGG	269	57.14
TACACGGCTATTCTTCTATTACGG	486	58.14
CGTTGGAATCTTCAGCAATGTG	84	59.21
TCGTTGGACTATGGTTATGGC	1139	56.22
GATTATGGATGACGGAGTGGAT	536	56.45
GAGACTTGTCGCCAGATTCCA	1522	58.87
GATTATGGATGACGGAGTGGAT	535	56.45
GATTATGGATGACGGAGTGGAT	530	56.45
AACAATCAACGCTTCAAGATGG	70	57.86
TCACACGATATTGGAGATATTGATGGA	349	61.44
CCGAGTCAACAACATCATCAACA	2819	59.47
CGTCTTCATGCGACTTACCAG	197	57.12
GGAAGTGTTGAATGCCTCGTG	96	59.18
CCAACCATCATGGCTACACC	853	57.32
TTAGTGTTGGAACACGGATTGACA	681	58.99
CAATGCTTGGCACGTCTGAA	396	59.42
ATGCGACGAATCACTTGCTG	20	58.47
ATTGTGTTGAGAAGAAGGAATGG	5687	56.05
AATCATCTCGTCTGCTGGTTG	391	56.47
ATTGTGTTGAGAAGAAGGAATGG	5078	56.05
ATTGTGTTGAGAAGAAGGAATGG	5945	56.05
ATTGTGTTGAGAAGAAGGAATGG	5507	56.05
ATTGTGTTGAGAAGAAGGAATGG	5621	56.05
ATTGTGTTGAGAAGAAGGAATGG	5507	56.05
ATTGTGTTGAGAAGAAGGAATGG	2699	56.05
ATTGTGTTGAGAAGAAGGAATGG	1412	56.05
AAGAAGAAGGCAGCGATACG	1161	56
GCTCGCTTCGGTGGTATCTG	783	59.43
CTCCATTAGTCGTTCTCTCGCA	1022	58.92
GCAGTGGCAGGAAGTTGATAG	500	56.19
AAGAGTGTGGATAAGTTCGAGACC	88	56.7
GTCAATGACTCATGTGAACTGTCTT	591	56.07
GATTGTTAATGAATCCAGAGGCA	147	56.89
GTCGTACCTCTGCGTCTCTTCTG	42	59.18
ACTATTGACTACGACATTGACGAAGC	1231	58.85
ACTATTGACTACGACATTGACGAAGC	975	58.85
AATGATGAGCCAATGACAGATG	25	56.23
GGACAAGTACAAGAGTGCAACAAG	1130	56.82
ATCAGCACCACCGTCCGAAC	565	61.83
GCCAGTCTCCACACTACACACCA	419	60.97
GCTGCTCTCAATGGAACGGT	148	58.88
TACTTCTCGTGACTTCATCTGTTCTTAG	869	57.63

TTGCTGTTCTATATCTCATTGCC	225	58.34
GCATCATCCGCCTACACAAC	1194	57.63
CCTCTCACGGCTACGTTGTC	853	57.01
CGATGAGAAGGTTATTCAAGCG	2502	57.65
CATGCTCAATAATTGGATGTTCTG	325	57.35
TTGAGCAACGCTGTGGAACAC	546	60.83
ACACTCCACATGTGCCGACT	131	57.58
CGGTGACGGCGATATTGGAT	160	61.53
CGGTGACGGCGATATTGGAT	129	61.53
AGTCGGAGAGCCAGGAGAGC	645	59.68
ACGAGTCATTGGATAACCTGGCT	587	59.85
ATCTCGGCTACACCATCGAA	166	56.83
ATCGACAACGACGTGCTCTT	372	57
GAATCTCGGCTACACCATCG	157	56.83
AATGGAAGAGGTCGTGGTCA	86	56.59
TGTGAAGGAAGCGAATGCGA	2285	61.39
TGTGAAGGAAGCGAATGCGA	2285	61.39
TTGACTCATCAATTCCTCGGA	232	56.79
TTGACTCATCAATTCCTCGGA	232	56.79
CTATTATGAAGGTGGAGGACACAA	581	56.08
AAGAAGAAGAGGAAGAGTTATCGTTGG	178	59.69
GTCCTTCGCCTACCATCGAA	50	58.73
CATCGTCTACCTCCTCGTCTCA	36	61.44
CACCACATTGGCTCCAGAGA	154	58.24
AGATGGAGATAAGTTGTGGCCTGTT	1110	60.21
TTATCCAACCGACTGATTATGGA	968	57.15
CATCCTCCGTCTTCCACCGA	109	61.9
CCATCCTCCGTCTTCCATCG	44	61.31
TATTCAACTGCCTACGCCAAG	719	56.73
CGTGTGTTCTTCATTACCG	39	56.78
CCAGTGCTCAGTGCTCACGT	52	58.63
ATCGGAGCAGTGTCTGCTGAAG	225	60.53
ATCGGAGCAGTGTCTGCTGAAG	124	60.53
ATCGGAGCAGTGTCTGCTGAAG	277	60.53
CTCTCCATCCTCACCAACTCA	132	56.32
AATTATCATTGATTCTCAGCTAACCA	235	56.41
CCAATACCTTATTCTTCACTTATCG	168	56.94
AGACCTTGCTGATTCCGTTG	397	56.46
AGACCTTGCTGATTCCGTTG	436	56.46
TGTTCAAGCTATTGAGAAGTACTGTAGA	1590	56.18
TGTTCAAGCTATTGAGAAGTACTGTAGA	1719	56.18
CATCGGCTTGAGAGACTACACA	578	56.71
CATCGGCTTGAGAGACTACACA	622	56.71
CGGCTTGAGAGACTACACAGG	552	56.3

ACGCTGTGTCTGACGGAGTG	562	58.48
TTACTAACTCCGAGACTGTGATAGTGA	68	56.65
CAACACACGCTCGCTCACAC	33	60.07
TTGGAGAGGAATTGGTCATCA	260	56.63
TTAGTGAGAACAAACGAAGATGCG	114	58.19
AAGGAATTGATCATTCGGCATG	847	59.75
TGCAGATCTACTCTTCCACTTGACC	189	59.78
TATGTTCTTCTGTTGTGCTCTTGG	677	57.26
TATGGTTGATGATGGTGTGCTGAA	485	61.07
CACAGACCTTCATCCACGCA	128	59.25
CACAGACCTTCATCCACGCA	136	59.25
TTGATGTGTCTGCTGGTATTCTG	1891	56.53
TTGATGTGTCTGCTGGTATTCTG	1746	56.53
ACTCGCCGTTTCAGCTAATTGAC	885	59.39
ACTCGCCGTTTCAGCTAATTGAC	891	59.39
AATTGCTCGCTGGTGAGGAT	627	58.35
TTGAACGAGAACAGGAGGCAGAC	54	61.58
AAGAATGGATGGCAGAATGTCA	161	58.12
CATCATCTCGTTCTCAACTATGGTCT	171	58.75
TTGTTTCGGCATCAAGCAGAT	398	57.91
TGTGGACGAGGACTGGCAAT	989	60.08
TGTGGACGAGGACTGGCAAT	1190	60.08
ATAGTCGGAGGAATGAATAACGG	1025	57.29
ATAGTCGGAGGAATGAATAACGG	1079	57.29
ACATCCTGTTGGTCATGGAGA	401	56.44
TCAGTTATATTGCCTTCACACACA	159	56.11
TCTGTGTCTGGAACGCTTACTG	589	56.78
AAGGATTGGCGTTGATTGCT	2004	58.26
AAGGATTGGCGTTGATTGCT	2004	58.26
AAGGATTGGCGTTGATTGCT	1827	58.26
AAGGATTGGCGTTGATTGCT	2004	58.26
ACCAGGACCAGAAGGACCAA	525	58.02
TTGTTATTGCTGGATTGGATACTGTAG	715	58.65
TTCAACTATCGAGCCAACCG	356	57.44
TTCAACTATCGAGCCAACCG	494	57.44
TTCAACTATCGAGCCAACCG	427	57.44
TTCAACTATCGAGCCAACCG	322	57.44
TTCAACTATCGAGCCAACCG	494	57.44
TTCAACTATCGAGCCAACCG	431	57.44
TTCAACTATCGAGCCAACCG	440	57.44
TTCAACTATCGAGCCAACCG	525	57.44
TTCCGCATGTGTCTAGCAGTT	146	58.88
TTCCGCATGTGTCTAGCAGTT	146	58.88
GGACGACTACTTGCCAAGATGC	51	59.73

GGTGTCTCTCAGCGTGTCC	153	59.27
GAATCAATGAGCAATACTCTCCGT	130	57.51
CAATACGGAACCTCTTACAACAATG	565	57.79
CTTGCTTCTGCTGCCACATAC	153	57.27
CTTGCTTCTGCTGCCACATAC	153	57.27
CAATACGGAACCTCTTACAACAATG	477	57.79
CAATACGGAACCTCTTACAACAATG	526	57.79
TCTTGAGGTTGTCTTCTGGTTCTTC	277	58.96
AACGGAGTAAGGCATATCTACCTCA	602	58.35
ATGCGTATGAACATCCGTTCTG	61	59.43
GGTGGATTACATTACTACTTGACCGATA	99	58.79
AACAATACTACCGCAGAGATATGAGC	333	58.1
AACGAATCTTGTGATGATCCAAT	104	56.24
TTCTCGTCGTACATTCGGA	2748	58.8
AGGTCAAGCATGGTCGATGATG	79	60.84
GCGGCTCTTCTTGACACGGT	974	61.29
GCGGCTCTTCTTGACACGGT	974	61.29
GGATGTCCAGCAAGAACCTG	205	56.75
TTATCATCAAGGAGGTGGAGAGA	352	56.54
TTATCATCAAGGAGGTGGAGAGA	352	56.54
CTCCTCATCTACCTGTCTAGTTCTG	312	56.73
TACTTGCTCTTCCTATCACTATCATCG	1387	58.2
TACTTGCTCTTCCTATCACTATCATCG	1402	58.2
ACGATGACAACCTGTTGGATATGG	1292	57.48
TTCAGAATGTGAGACAGATTCGGAA	66	60.9
AGCACACACAAGACGGACCTCA	301	61.64
AGCACACACAAGACGGACCTCA	266	61.64
AGCACACACAAGACGGACCTCA	149	61.64
AGCACACACAAGACGGACCTCA	188	61.64
CGATGCTCTGGAACACTGCT	125	57.64
GACGGAGACCGCCATCACAT	29	61.81
GCTGGCTAAGGAGATGAAGCTACAG	382	60.78
GCTGGCTAAGGAGATGAAGCTACAG	382	60.78
GCTGGCTAAGGAGATGAAGCTACAG	382	60.78
GCTGGCTAAGGAGATGAAGCTACAG	382	60.78
GGAAGCGATATTCGAGACAAGA	383	57.21
GGAAGCGATATTCGAGACAAGA	383	57.21
ATCTCAACGGTCGCATTTCGC	233	62
ATCTCAACGGTCGCATTTCGC	318	62
ATCTCAACGGTCGCATTTCGC	199	62
ATCTCAACGGTCGCATTTCGC	560	62
GTTCTTCGTGCCGCTCGTTAC	1895	60.74
TTATTGTTGGAGCCGTCTGTT	414	56.02
CGTTACCTCATTCCACCGAT	170	56.08

AAGTTGCTCAGATTCATAATTCTCC	452	56.06
TCTACCAGTCGCCATTGACG	460	58.32
GAATAATGTGTCTTCAATGGTTGGATG	389	60.6
ATGGAACTCGATTGTGCAAGA	138	56.88
ATGGAACTCGATTGTGCAAGA	81	56.88
TTCTTCCGTCGTCTTCTAAGTGTCC	34	60.89
TTCCAGAGAGCCATCAAGCTT	224	57.75
GGTCGTCTCCTACACTCACTTGC	247	58.91
CCGAGAAGGAGCAGTTCAAGA	265	58.26
CCGAGAAGGAGCAGTTCAAGA	265	58.26
CCGAGAAGGAGCAGTTCAAGA	265	58.26
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AACGCCAATAATGCTCGTTG	495	57.4
CCAGTGATCTGCTGGATACTGA	27	56.49
TCAGAATGTGTTGGAGGTTCTG	152	57.25
CGACAGCTATTCAAGGAGTTGTTCA	1170	59.42
CCGTCGATGCAGACAGTGAC	426	58.84
CCGTCGATGCAGACAGTGAC	325	58.84
ATCAAGAGAAGATTCCGTGCGT	343	58.85
TGGCAGCAACGAATCAGAGG	71	60.88
GATGCTCAGCCGATGTTACG	466	57.93
CGGTCAACACACTCGGAGAA	149	58.29
CCAACCTTGATGGAATGGTTCTG	832	58.88
AATGGTCATGCAAGAGGCAA	409	57.76
TTGCTCCAGAAGTTGCTATGTG	539	56.82
CATCATTGTAGTCACGCCAACTTAC	201	58.67
TTCACACATCACAGTTCATATCGGT	345	59.29
TACGCAAGGAGCATTGACTG	406	56.16
CAATTCCGGAGTTCTACTCCACTG	99	59.98
ATTGTCAGCAATAATCATACTGATCC	1139	56.53
TGGAACCTGATATGGAATGTAGAAC	429	57.21
GATAGTTCAGTTGATCAGTTCGGA	405	56.21
GATAGTTCAGTTGATCAGTTCGGA	381	56.21
TGTGCTTCTCGACTTCTCGAA	73	57.43
CTTCCGCGAACTGCTCCTTC	52	60.96
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AATTCACAGCTTACACAAGTGCCT	26	58.09
TCCATACTTACCGGAAGGAGTG	585	56.87
CTGATACAGATCTTATTGAAGTGCGA	336	57.78
ATAACAACAACAACCGGTGGA	391	57.95
GAATCTTGCTCTATTCTGTATTGG	782	57.2

TATCCTTCTGTTCCGGCGTTG	274	57.44
GGATATACCATAGGATTACTGTCGCA	269	58.46
TTCTCTTCCTCTACTTGGTGATGC	111	57.73
AGTTGAAGAAGTTAGTGCTGAATGTGA	1104	58.66
AGTTGAAGAAGTTAGTGCTGAATGTGA	1104	58.66
TGAAGTCATCGTGGTCACTTGCTT	25	61.85
TTCGTCTCCATTCCATTCAAC	61	56.19
GCGTATGCCTGTACATTCAAGTG	760	56.96
CCGTTGGTGGAAGTCTGGTA	171	57.11
TTGACGCCACGGAAGAGAAG	84	59.95
GAGCTGAGAGCCGGAACAGT	1437	58.22
AGGTGTTACTGGACGGTTCTGT	1345	56.36
AGGTGTTACTGGACGGTTCTGT	1345	56.36
CAAGGTGGATATGTGGCGGAA	161	61.54
CTTGGAGAGACTCACAGCGAA	193	56.87
TCGTGAAGAACTAGCCGAGAA	58	56.47
TCATCGGACAATTCATATACTATAAGCA	44	58.24
CACAACAACCACCACCACCA	661	59.71
GATGGAGACCAGAGCGGAAGA	77	60.3
AACGATGCGAACAGATAAGATTG	83	57.11
GGCTGTCTGAAGAGTCTGCGA	57	60.25
AAGCTCACAAGCGATCGATAGG	260	59.48
AAGTTGATGTTGCTACCGCCAA	86	60.47
TTGAAGAAGTTGGCAGCGGAA	1074	61.68
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TTGAAGAAGTTGGCAGCGGAA	531	61.68
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AGACTGAACGAATGCTACAAGAACG	1482	59.83
AGACTGAACGAATGCTACAAGAACG	1482	59.83
AGACTGAACGAATGCTACAAGAACG	1482	59.83
AGACTGAACGAATGCTACAAGAACG	1406	59.83
CGGATGTATACCTACTATACCACCAG	82	56.17
TGGCTCTGAAGTTATGAATGACA	1183	56.17
TGGATTAGTGACCTATGACGATATGATC	774	59.53
TGGATTAGTGACCTATGACGATATGATC	537	59.53
GGAGACGGCTGGATAGTCAA	534	56.39
GTCGCAATTGACTTACGAGCAA	483	59.01
GTGGCGAGGAGAAGCTGTGC	216	61.98
GAAGAAGCTGGCAGCCTGAA	179	59.29
ATAACTCGACATTCATGACGTACTACA	178	57.1
GGTTGTTGTGTGCAAGTATTATGTTC	116	57.72
CTAATGGAGCAGCGGCAAGT	39	59.07
CTAATGGAGCAGCGGCAAGT	39	59.07
CACTTCGTGTCGGAATACCAA	146	57.22

CATTCGGTGCCATGTCGTGT	241	61.34
CATTCGGTGCCATGTCGTGT	278	61.34
TGGTGTGTGGACCGTTATGG	666	58.7
CATTCGGTGCCATGTCGTGT	160	61.34
CATTCGGTGCCATGTCGTGT	278	61.34
GATGACACCGAGACGATGAGA	199	57.24
TATGAGGACGCTGTGAGGACGA	340	61.65
CCATATCACTCTCACAATGACTACG	670	56.57
TCCACCGATTGATAGCCTCA	895	57.7
AACTTACAGACCAGTTCATCTCACAA	1012	57.19
TATTGGCGTTCCTATTGAAGTTCA	272	58.71
CTGGAAGCTTGGACAATTGC	181	57.02
GCGAATGATGATGATATTCAAGAC	1830	56.44
GCGAATGATGATGATATTCAAGAC	1773	56.44
TATCACGATGAAGTCGAAGCG	102	57.6
AGAATGGAAGGATTGCGGAT	136	57.15
GACACAGGACTTGATACCAGGCA	290	60
GACACAGGACTTGATACCAGGCA	262	60
AGATTGGAACAACTGTGCTCCA	140	58.3
AATTGAACGATTCGTGTCTTATATCTG	487	59.57
GCATTGTTCTCAACCTCATCACT	369	56.96
TGGTCTGTGATAGCGTGACG	111	58.39
GTCATCTGTTCAAGAATGGAAGGAT	173	58.56
TGTTGCTATTCATAGTGGCTCATTC	299	58.4
CGTAGAGTGTGTTGTCAAGTGATTG	917	57.55
TGCATCGAGTAAGCTGTCAAGT	719	56.43
CTACTAGGCAACTATGCTCCTGATC	46	56.67
TTCAGCAACTGGTTCAACACAC	2151	57.38
TTCAGCAACTGGTTCAACACAC	2001	57.38
GGTCATCGGTATTCGCTGAA	1890	57.23
GGTCATCGGTATTCGCTGAA	1937	57.23
CGCAGTATCGTGGCACATTC	310	58.75
ATGGACATATCGTATTCTTCTTGACTTC	1009	58.24
ATGGACATATCGTATTCTTCTTGACTTC	1009	58.24
CGCAGTATCGTGGCACATTC	310	58.75
AGAAGGCGACACGTCTGAGG	92	59.04
GAGAACTTCCAATTACTCGCCTGAT	51	59.96
CTCAACCAGAATACAACGAACAATG	1740	58.64
AGTCTTCGGCTTCAATGGATACAC	235	59.51
TCAGAATGAACTCGGTGAATTACTAC	903	56.78
CTGTTGGCTGGAGAGATGCGT	597	61.29
ATGACACTCCACCTGATACGATACC	2474	59.18
GCACCTTCAACGACCACCTT	41	58.64
AACCAACAGATGCCAATGACG	322	59.43

GAGGCTTGTGATGGATTATGTGA	547	57.68
GAGGCTTGTGATGGATTATGTGA	387	57.68
GAGGCTTGTGATGGATTATGTGA	385	57.68
CAGCAACAATGTCTCAACAAGC	675	57.16
CAACAATCATCTGTCACTGTGGAA	294	58.61
CGATTGAAGGACTTGTCTACTTGTCA	115	59.7
CTGCGAGAATAGAATATCGGAAG	265	56.12
GCTCCGTTGATTCTATTCTGT	499	56.14
CCACCATCACAAGCCACTCT	88	57.16
GCCACCTGTCTGAGCTGATG	84	57.98
CAAGCGTGATAAGCATACAAGTG	38	56.41
GCATCGCTGGTTGTCCAGTGTA	35	61.92
CGAGAGGTATCAATAGAGATAGTCGAGA	285	58.65
GAGCTTATGCCATAGTGAAGAGC	55	56.19
ATTGGCATTGAGGCAGACAG	88	57.35
CACTTCGCTGAGGATGGCTA	4477	57.66
AACAACCAGAACAACCATGTGAA	874	58
TATGCCGCCGATGTTGAATG	79	61.31
GAAGACATCGTGAGTGAGTGACA	72	56.48
AACCTGCCAACTACGACGATT	727	57.36
AATGCGGTTACTAGATGGAGGA	155	56.55
CGACAACATCCAGACAATCATC	1120	56.58
AGAGGTCAGCAAGAGCAACAG	534	56.01
AACCATCGCTTACCATATTCTCTG	366	57.48
AACCATCGCTTACCATATTCTCTG	390	57.48
CAGAATGTTATGGATGGTGTGG	82	56.43
CTGGAACAGATTGCTGAGAA	538	56.76
AAGTATGTTCTCTGGCAGACAATG	684	56.3
ACTGTTCTGTCGCCTTGGTGT	640	59.21
TCGTAGTTATCGTCAGGCTATCTTG	978	57.79
TGGTTGTCTTCGCAGTGATG	187	56.82
CATCTACAATATGCATGTTAGCTGTC	366	56
CCGCAATTACAATTGCAACGTC	101	61.15
TGGTTGTCTTCGCAGTGATG	184	56.82
CGCAACAACAACCTGGAGGAT	785	57.26
GATACAACACGAGCACAATTCATATTCC	566	61.73
AAGTATCGGAATGCACGATGATC	552	58.96
TTCCTGCGCTCGACTTGGAT	352	61.74
TTCCTGCGCTCGACTTGGAT	411	61.74
GACTTGCCACCTCCATCTCA	184	57.23
TTGGAAGTTATTGACATCATGGC	141	57.61
TTGGAAGTTATTGACATCATGGC	164	57.61
ATATCGTTGGATCGGATGGAC	244	57.28
TGATGGACTTAACCTGCTTGTC	383	58.37

AATAACGCTGGAGTTCTGCTGA	280	57.77
CAATTGATCTGCAAGATGATCACA	590	58.7
TGCGACTGCAAGAGATGTTG	169	57.15
AAGAGAGGCTGAGTTATACGAACAG	1167	56.36
ACCACAACCATCCGATCAGTA	83	56.44
AGCGAGGCGATGTGAAGATC	562	58.98
AGCACGGATAGTACGGACACC	646	57.69
ATGGATGGTTCCGAGTTGAG	138	56.07
CAATGGTCGCAGAACCGTTG	386	61.02
TATGTGTCCTGTATGTAATCGTCCA	429	57.17
TATGTGTCCTGTATGTAATCGTCCA	606	57.17
ATGGATTTCGGAAGTGGTGGT	741	57.76
CTGTTAGATTAGCTGCTTGAGAGAATG	99	58.15
CCAATCATCAACTCATCTCCACT	1828	56.75
TTGAGGAAGGTGGTCAGAAGA	736	56.01
GAATACCATATGTACGAGAAGCTGCA	1092	59.57
CCGATTGTGACGCAAGGTGT	22	60.52
GAATACCATATGTACGAGAAGCTGCA	879	59.57
CCGATTGTGACGCAAGGTGT	247	60.52
CCGATTGTGACGCAAGGTGT	277	60.52
CCGATTGTGACGCAAGGTGT	279	60.52
CCGATTGTGACGCAAGGTGT	276	60.52
CTGTGACGAGTGAAGAAGACCTATC	32	57.31
CTGTGACGAGTGAAGAAGACCTATC	42	57.31
TCAAGAAGCATTACTATCAGCAAGG	2070	57.89
TTGTCGGATGCTCTCACGGA	154	61.3
TGAGATGTCATTCAGCCTACGA	217	57.05
TGAGATGTCATTCAGCCTACGA	616	57.05
CGAACAACAACGAGTACCGCAT	144	60.88
ACACCTCCGTCAGTTCCAGA	360	56.71
ACAAGCAATCAATAGTTGGATTCTC	232	59.75
ATCATCCGCCACAATCACAT	1165	57.26
ATCATCCGCCACAATCACAT	1165	57.26
TTCTCGTGTATGCTCATCATCG	537	57.47
GGTATGCCTATTCCACTTCCTCA	1570	58.15
AACCTTCTTCACGCCACTCG	1440	58.92
TTGCTCAGAACATCGGAACC	205	57.32
TTGATTACTGTCTGGTTGGAGGA	1047	57.34
CTGCAATTCACGACCGTGTT	537	58.22
CTGCAATTCACGACCGTGTT	471	58.22
TATGGAATGTGGAGGATGTGG	173	56.79
ATGCGAACCAGTTGCCATTG	375	60.47
CGAGGACAGGTCATTGGAAT	766	56.07
CGAGGACAGGTCATTGGAAT	1376	56.07

CGACACCGTTCACAGAGCAA	86	59.45
ATCAATGTTCTGCTTCATGTATCC	519	56
AGTTATGTTCTGGAATGTACAGCAA	449	59.04
TTGGAGATGACGGAAGACGA	302	57.81
AAGCGGTTGATGATTGAGAGC	74	58.01
GTCCACAAGTTCAACCAGTCTACG	247	58.73
CTTCTTACCACAACCACCTCCT	43	56.01
CACTTGGAGCATGTGAGAATGATG	64	60.49
TATGCTCCGATATTCAGAGAGACG	67	58.55
GAAGGAATGATACCATTGATACCAG	49	56.77
GGCTCACGTAACACTCAGCTTATCAG	467	59.87
GAAGGAATGATACCATTGATACCAG	49	56.77
TCAAGTCCGAATTGTCACACG	405	58.21
TCGTCGCACAGTAGAAGCAA	70	56.84
AACGGACGCTGAGCAACTTC	700	59.07
TCATCACTGCGTTCAACGACAC	623	60.7
TCATCACTGCGTTCAACGACAC	640	60.7
TTAATTGACACGGCGAGAGC	191	57.59
TTAATTGACACGGCGAGAGC	191	57.59
TCATCACTGCGTTCAACGACAC	623	60.7
TCATCACTGCGTTCAACGACAC	640	60.7
GACAACACACAACGACCACCA	48	58.9
AGCATCATCATCAGCATCAAGG	62	58.75
TCATAAGATGAACATGGATGATCG	68	57.57
TCATAAGATGAACATGGATGATCG	431	57.57
ATCTCCGTCAGGCTATTCTCG	988	57.14
TTATGTCAATGGCTATGAGAGTGG	524	56.99
CTGGTGAGATGGCTTGTCGT	1020	57.32
GTACATGATTCGTGGCAATTAGATGA	556	60.08
TCTAAGCGATTGGATGAAGCA	345	57.22
ACTTGCTTCGGATGGTTATGC	165	57.82
TGGAGGACTTCAGCATTCA	515	57.88
GTTCTCACAATATGTGTATCCTCTCAG	1970	56.33
GTTCTCACAATATGTGTATCCTCTCAG	1825	56.33
CCGAACATTCCGTGCGTATG	70	60.84
CAAGCCAGATTCTGCGTATGTG	97	59.37
CCGCAGTTGACGATGACGATT	484	61.89
CCGCAGTTGACGATGACGATT	902	61.89
GCGTTATTCATGCAATGTTGTG	366	57.72
TGGAGTTGTTTCATCATTGGTCA	224	57.51
AGAAGACTGTCTCTAGTGTGAGCCTA	394	56.08
AGAAGACTGTCTCTAGTGTGAGCCTA	307	56.08
AGAAGACTGTCTCTAGTGTGAGCCTA	412	56.08
AGAAGACTGTCTCTAGTGTGAGCCTA	394	56.08

AGAAGACTGTCTCTAGTGTGAGCCTA	307	56.08
AGAAGACTGTCTCTAGTGTGAGCCTA	412	56.08
AGAAGACTGTCTCTAGTGTGAGCCTA	307	56.08
TGTTCTTCCATGTTCCGTTCA	125	57.65
AACAGGAGCATGTCAGAATTGGAG	85	60.46
AACAGGAGCATGTCAGAATTGGAG	109	60.46
ATCCACAGAACTTCCGACTTGCTT	822	61.26
TATGAATGTATGCGTGGAGGAA	430	56.77
CGCCTAAGCTCACAGATAACTGG	717	59.07
CGCCTAAGCTCACAGATAACTGG	386	59.07
TTGTCTTCAACAAGGAATGCG	352	57.48
TTGTCTTCAACAAGGAATGCG	574	57.48
TTGTCTTCAACAAGGAATGCG	205	57.48
ATGAATCATATTGTGACATATCGACTTC	37	57.63
ATTGAGACACCAGAAGATGATGAGA	61	57.9
CTGTATGAAGAGAGGAGTGTGAGAGG	32	58.65
AAGCGAGAAGTTACTGAAGCTGAAG	561	58.64
TTACAGGCTTGAGGAGATTCTGA	681	60.18
TTACAGGCTTGAGGAGATTCTGA	681	60.18
ACTCGGCTCACTTGCTCACC	38	59.04
CTAACAAGTGGAGCAGGAGGAG	264	56.86
GCAGTTCTATACGGCAGATACAAG	3288	56.13
TCCAATTATGACATTACATTCTCTT	680	56.94
CGTGTTATCAGTCCACTTCTCCT	2516	56.17
TTGTTGCTCAATAAGGAGAATGAC	174	56.32
CCATTCAACACGGCTCCAGA	37	60.6
CAGAGGAGACCGTTGTTGAAG	987	56.11
CGACGACATCATCAGGATATGGATA	543	60.83
ACGAATCGGTAGACGCATGAATC	55	61.12
TGTGAAGGAATGTGTGAGACGA	1329	57.79
GCAGTCCTCAACTCGGCAATC	2004	60.72
CGTTCTTCTGTCGCCAATCG	123	60.34
CGTTCTTCTGTCGCCAATCG	519	60.34
CGTTCTTCTGTCGCCAATCG	183	60.34
CGTTCTTCTGTCGCCAATCG	169	60.34
CACCGCATCTTCCAATTCT	827	56.46
GAGCATAAGAAGAAGCAGGAAGAAG	34	58.13
AATGGATTGGTGATAATGGCTGT	235	58.26
AATGGATTGGTGATAATGGCTGT	381	58.26
AATGGATTGGTGATAATGGCTGT	301	58.26
TCAGATTCGGTAACTTCCTATGC	406	56.28
TCCGAGGAACAGGTTGATGA	428	57.65
GCCATTCATCTTGCTCCGTT	29	58.73
AAGTGTACACTTGCCAACACTCAA	868	57.54

TTGATACAGTGAGCACGTCAGG	454	57.5
GCAGAGGACGGTGTCATGTACT	1475	57.8
GCAGAGGACGGTGTCATGTACT	1475	57.8
GGTGCCTAGTGATGATGACGA	166	57.21
GATGACAGCATCTCGTCGGA	172	58.34
CGCTCGACAACTTCGACTTC	154	57.29
TTGACTCTGGAAGTCCATTGAGT	411	56.55
AATGGATATGATGATAGGATTCTTCTTG	234	58.09
CCAGATTAATTCTTCTGCTTGCA	49	57.36
CCAGTCATTCTTCTGCTTGCA	48	57.7
AATATTAACAGCTGCCGGACCT	481	57.88
AACTGTTGGAGAGCGTGACG	92	57.54
AACTGTTGGAGAGCGTGACG	95	57.54
CGTTGCTAGACGATGATGCC	114	57.93
CGCATAGAAGTTACGAATATTGATCC	218	58.29
ATGGAACCTCAATCGGAGCA	498	56.8
AATGATCGGTGGTCCGTCTG	55	59.36
AAGCTCAGCACCTCCTTCTGA	524	57.88
AAGATAATGCCAGATGCTCGGA	533	59.66
CGCTGTTCAACCGATTGCTA	604	58.52
AACGCGACCAGCTAATCATG	50	57.47
CGTCATCATACATTGGTTACTGTCCTA	187	59.26
CACTGTCTGAATACTTCTCAGCACT	804	56.53
TGCCATCTACAATCATACTTCGTT	425	56.59
AATGGCAATGAAGATCCTGACA	342	58.12
GTGGCTGGTGGTGGAGCTTC	917	61.58
AACCAAGTTGCCGATTGAAGA	543	58.29
GGTAAGACTCCAGCAATCCGA	225	57.87
GGATTATGAAGGCAAGACGCA	125	58.78
AAGAGCAACATGCAATACTACAGAGA	62	57.49
CCGCCAGAAGCAGCAGAGAT	248	61.52
TTGGAGCCGCTGGACTTAGC	375	61.33
TTGGAGCCGCTGGACTTAGC	816	61.33
TTGGAGCCGCTGGACTTAGC	814	61.33
CGATGAAGCTCTTCTCGTGAA	368	56.91
ACATCAGATGGACTGTCCTCTACA	192	56.44
ACATCAGATGGACTGTCCTCTACA	347	56.44
TTCAACAAGCATTCCAACAACA	239	57.79
GCAACAATATAGGTCATATCCGCAGA	148	61.22
GGAGCAGCAACTACAACATATGGA	603	57.22
CACTTCTCGTTGGATTATTCACAG	2476	56.66
TGAACGGACTGCCAAGAAGT	384	56.98
CGTGGCAACTGGAGTGTCTG	128	58.89
GGTCTTCTGATACTTCTCGGATTC	45	56.3

CATAATCACCTTATGTATGTGTTGGTG	96	57.53
GGCAAGAATGGATTGAATGGAA	791	59.73
TTGAGACCGCTAGAACTTCCA	292	56.32
TCTACGACAGGACACTTGATGACA	124	58.38
TTCCTGTCATGTGTTGGCCTT	297	59.03
TTCCTGTCATGTGTTGGCCTT	297	59.03
CCAGCCACCATCAAGACCAA	298	60.46
CCAGCCACCATCAAGACCAA	308	60.46
CCATTCCAACATCAACTCACAC	2077	56.49
CAGATGAACAATTCGCCGCTT	361	61.05
AGCCTGTGATGGATGTGGAAG	1696	58.6
GTACAATGCTGCTTCGCACTGAT	70	60.27
ATCAACAACCTCCGCCGCATT	1116	61.33
ATCAACAACCTCCGCCGCATT	1059	61.33
TTCCTTGTCACCATCTCCTCA	242	58.23
TTCCTTGTCACCATCTCCTCA	236	58.23
CACAATGCTGCATCTCATCG	47	57.38
CACAATGCTGCATCTCATCG	113	57.38
AGCAACAACCGCTGTTCACT	274	57.07
TTCCACAAGTCCACTCAACACA	737	57.7
ATTGGTCATCAGCGGTCTCG	477	59.65
TTCCGCAAGATTCAACCAGA	293	57.88
TTCCGCAAGATTCAACCAGA	522	57.88
GTACAAGAAGTGAACAATTAGTGGA	389	56.13
AAGATAATGTTCCGCTCCGA	2116	56.02
TAAGTCTCATCTGAATGACATTGAAGA	221	57.28
GTGGCACAATGCACAGATCA	931	57.62
GTGGCACAATGCACAGATCA	886	57.62
TCAATGTGTGACAACTGTGGAGA	848	57.71
AGAAGATGCAGATGAGAGAGAAGAAG	805	57.74
AGAAGATGCAGATGAGAGAGAAGAAG	677	57.74
AGAAGATGCAGATGAGAGAGAAGAAG	762	57.74
AGAAGATGCAGATGAGAGAGAAGAAG	686	57.74
TGGCAACTTATGAAGTACGCAT	238	56.19
TATTGATTATGAAGATGCGGATGG	116	58.86
ACATGCTGAACATGGATTACAGA	678	60.37
TCACTTGTTCTTCTTCTACAGACGAC	232	59.32
CCAGAACCAGAACCTGAAGAAG	465	56.69
CCAGAACCAGAACCTGAAGAAG	503	56.69
CCAGAACCAGAACCTGAAGAAG	465	56.69
CCAGAACCAGAACCTGAAGAAG	503	56.69
CCAGAACCAGAACCTGAAGAAG	465	56.69
CCAGAACCAGAACCTGAAGAAG	503	56.69
GGACCAACAATGCCTTATCG	308	56.63

TTGGTCTTAATGTCGGATGACC	460	57.53
CAATGGCTGATGTGATGGAA	314	56.47
CTCCAGAAGACCACAACGAATG	129	58.3
CTGTTGGAACCGTCGGAATC	142	58.98
AATGTAACAAGATTGGAACCAATTG	808	57.31
CAAGCAGTGATAGGAGAGGAAGAAGA	777	60.33
TATTGGTGTTTCGCTGTCGGT	1740	57.69
ATCAATAATGTCTCTCGCTCGTCA	62	58.9
TCAGAACTATCACAACGGCTTATTACC	294	59.8
ATCACATGGCATTTCGATTATGATC	136	58.7
CCATCACATCAACACATCCATC	2394	57.16
TTGTGCCTTGGATTGTCAAGT	876	58.21
GGTCAGTAGTGGTTGTGTGCGA	62	59.66
CAACTAGCAGCCGATACATGACG	88	60.61
AATCAAGAAGAGGACGGCAGA	183	57.61
AATCAAGAAGAGGACGGCAGA	183	57.61
AATCAAGAAGAGGACGGCAGA	259	57.61
TTCCAACCTCCAATTCAATCAAC	196	56.89
CCGACTGCTTCTTCTACCACTTG	74	59.07
CCAGATTATGTGTGGACTCGCA	266	59.58
ATACCTCTCACTTCCAATAATAACTTCA	105	56.16
ACGACTGGAATGTCACTGTGGTTA	439	59.43
ACGATGGATGAACACAGCGA	22	58.68
GACGATCTGTACGATGAAGCG	137	57.06
GACGATCTGTACGATGAAGCG	137	57.06
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GACGATCTGTACGATGAAGCG	137	57.06
GACGATCTGTACGATGAAGCG	137	57.06
TCATTCTCAATGTTCACTGGTCGAT	160	60.68
TGTAATTCGAGCACATTTCGATG	483	57.4
TCCAATGAATAATCAATTCCAGAA	485	56.4
TCCAATGAATAATCAATTCCAGAA	485	56.4
TCCAATGAATAATCAATTCCAGAA	456	56.4
GACGATCTGTACGATGAAGCG	131	57.06
TCCAATGAATAATCAATTCCAGAA	485	56.4
TCCAATGAATAATCAATTCCAGAA	485	56.4
TCCAATGAATAATCAATTCCAGAA	602	56.4

TGAAGAACTTGAAGTCGCAGAA	77	56.52
TGAAGAACTTGAAGTCGCAGAA	122	56.52
CGAGGATACGGTAGCACTGTG	448	57
TTGTATGTCAGAAGAGAAGATTAGCAC	203	56.33
CATTGCTTGGAACATTACTTGTG	589	56.1
TGCCGAATCTACAGTAACCACA	74	56.94
TGTATTCTTATTGGAGATCATCGTG	148	56.14
AACAATACGTCTTGGAAGTGGTGA	422	57.28
AACGAACGGAAGGCTGTGAT	52	58.25
TTCTGCTGCTCACGACTGTC	42	56.24
TATTGTGGTGAGAGACGGATGGA	72	60.31
CAGTTCTCTCAGCAAGCAGCA	402	58.14
ATAGTGGAAGTCGTGAACATCGT	184	56.42
CGGATCAACTACAAGGAAGAGC	500	56.76
TACCAAGGACAGTCGGCATT	1023	56.74
TACCAAGGACAGTCGGCATT	1106	56.74
GTGATGATAGAGATGACAGAAGAAGAGA	797	57.45
CACCTCCAATGCCAGAAGAG	197	56.92
CACCTCCAATGCCAGAAGAG	184	56.92
GCGAAGTCAGCACAGCTGAT	51	57.79
GCAGTCATCACATCCTACTTCACA	46	57.87
TGCCTTCTTGCCAGTTGCTA	560	58.26
ATGCCAACCATTCAACTTGTCAC	336	59.74
ATGCCAACCATTCAACTTGTCAC	383	59.74
AAGAGTAGCAATTGATCAGGACAAG	76	56.94
ACGACGCTTCGGATGATGTC	477	59.66
ACGACGCTTCGGATGATGTC	450	59.66
GGAACAAGGCTCAAGCTATCG	488	57.71
GCATTGCTTCTGGACTTCATG	513	57.03
ATACGAGCAACGGAGAGGAGA	497	57.63
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ATACGAGCAACGGAGAGGAGA	497	57.63
ATACGAGCAACGGAGAGGAGA	497	57.63
ATACGAGCAACGGAGAGGAGA	497	57.63
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ATACGAGCAACGGAGAGGAGA	497	57.63
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AGTCGCTGGACCTGCAATTCTAC	511	60.59
AGTCGCTGGACCTGCAATTCTAC	511	60.59
TTCTGTTCCAGTCGTGCTCA	505	56.52
TTGTCACAAGTTATGGCCAATCATG	32	61.69

TTGTCACAAGTTATGGCCAATCATG	475	61.69
TGTGGATGGCTCGGAATCTAAC	475	59.91
TGTGGATGGCTCGGAATCTAAC	475	59.91
TTATACGGTGGCAAGCACTAGG	416	57.97
CATTAGCGTTCTACCACAGGTTGAAG	1218	61.11
CATTAGCGTTCTACCACAGGTTGAAG	1218	61.11
CCATTGCTTCGGACTGCTAT	282	56.54
GTTCTCACATCATCATCTTGTTTC	444	56.31
TCAGCATATATTGCGTGCGT	434	56.52
TCAACACACCTCAGCCGTT	162	60.12
TGAGGCAAGCATAGACACACAC	29	57.5
GAGCGATGTTATGTCAGCCGAGT	496	61.43
TTCTATACGGCTATGACACAACCA	433	57.42
GGAAGAAGAAGTCAGAGCGTGTT	493	57.84
TACTGGAGTCTGCGTTGCGT	715	58.13
AAGTTGCAGTGGAACAAGCAG	325	56.76
TAAGGCGGACATGTACTCCATCG	483	61.95
CGGTATCTTCGTCACTCGTTC	1203	56.04
CGGTATCTTCGTCACTCGTTC	1197	56.04
CACCGAGATTGAGATGGCTAA	2069	56.53
TTCTCACCAGCACTCCTCTCTCC	639	60.86
CATCATCAACAGCGACAGAACA	241	58.38
CATCATCAACAGCGACAGAACA	185	58.38
TTGAGAATGCCGAAGAGCCA	442	60.43
ATATTATTGCAGATGCAGAGGCAA	550	58.82
AGAAGGTGTGCGAACATTGG	750	57.26
AATTAATAATATATGCGAACGTGAAGC	283	57.26
TTAATAATATATGCGAACGTGAAGCT	284	56.64
AATTAATAATATATGCGAACGTGAAGC	163	57.26
GAGCTCTTCGTGCAAGCAAGT	65	58.48
CGTGTGGAGATTCCACGTTG	549	58.57
TGTCTACAGCTTCTTCATGACACC	393	57.17
GACTGTCGGAACAATAGGATTGCTAG	239	60.32
AAGTCGCTAATCGTTGTGTGAA	567	56.25
AAGTCGCTAATCGTTGTGTGAA	363	56.25
AATCCTGTGGAGTTATCACTTCATTG	143	58.54
GTGATTGTCAACAGTGATCGTCCA	652	60.77
AATCACTGGAAGCAAGAAGCAGA	81	59.14
GCCAATCAGCATGTGGAATACC	328	60.16
TGTGGACAGCAGCAATCAGA	590	57.49
TGAAGAAGCCGAAGGTGTAGA	132	56.32
GACAACTCGTTGTGCGTGGA	77	59.3
CGTCTTGGCTGTCTTCTCTCA	56	56.87
CTTCTTCCAATATCTCCAATTCAACTG	53	59.57

AATGGTGGAAGCTGCCTTGA	278	59.26
TTCCAAGTATAACATTCCAGACTCCAC	2068	59.67
TTCCAAGTATAACATTCCAGACTCCAC	2163	59.67
GGACTCACGACAACACAATAAGC	3289	57.42
TGATACGAACCAACACCGAA	951	56.09
GCTCAACATCCTGTGGAAGAATG	344	59.59
AACCAACAAGTACTCCAACACCTAG	146	56.69
TGGAAGACAGACACAACAACAGA	91	56.96
AACACGTGGCTCTTGAAGACA	28	57.05
CCTTCGTTGTCTTCAATCTGG	311	56.02
TGAATCTGCTACAAGTGCTGGA	766	57.26
TGAATCTGCTACAAGTGCTGGA	821	57.26
GCCGCCATCTGCTACACCAT	368	61.89
TGATATGGATTACAGCGACA	431	56.19
ATGTCACTGTTCTTCGTATTGTCG	584	57.01
ATGTCACTGTTCTTCGTATTGTCG	584	57.01
CCATCAAGAAGATATTAGTGCGATT	214	56.78
TCGGATGATAAGGCAGCAAT	775	56.87
CACAAGGAGTAGTAATGACACTAGGAAC	121	56.93
CAGATGATTGAGTGGTTGGAGAG	678	57.4
CGATGGAAGGAGGCTAAGGA	80	57.95
TCTAAGAATTGACTACGACAGGACAGAT	827	58.88
TAACCATTGCAAGGCAATC	1746	57.32
TAACCATTGCAAGGCAATC	1785	57.32
CGTGAAGGATATTGGCGGAA	3411	59.49
ATACTGCTTCACTTGCTTCATTCG	1236	58.64
ATACTGCTTCACTTGCTTCATTCG	526	58.64
CTGGCGAACACAGAGTGGTT	587	57.38
GTGGCGGAAGATCATTAGAACA	41	57.81
GACCAGATAGACTGAACATCGGAA	56	58.27
TATGTGATGACTGATGGAATGTGA	453	56.57
TATGTGATGACTGATGGAATGTGA	87	56.57
GAAGATGACTGTTGGATTATTGTTGGA	161	60.39
AATGGAGATTCTGATGTATTCACG	293	56.01
AATGGAGATTCTGATGTATTCACG	460	56.01
GATTGTGTCTCTTATTATTCTCCTGGT	744	56.39
GATTGTGTCTCTTATTATTCTCCTGGT	760	56.39
TCATGGAATAGATGTTGAAGTTGG	347	56.83
GTTCCGTATCCGAGGCGTAA	1364	58.65
GTTCCGTATCCGAGGCGTAA	1479	58.65
AAGTTCGCAGTAGACCAGGATG	346	57.12
GCAACATCTCCATCACTTCTACC	203	56.48
ACAGTCGGAGAAGTAGTATGGTTGA	70	57.15
GGATCATGCCGAACAACCTCA	95	58.09

ATCTACCTAGTGCAGAGCTTCTTGT	748	56.01
GCCTGTGTCAACGGAGGTGTT	337	60.93
GGACCACCAGGAGAGGAAGG	828	59.48
CTGGAACATGGAGCCGCATT	384	61.86
CTCCTCTACGGCTGCGGCTA	90	61.46
GCTTCAATAACTGGAGGTGCTTC	267	58.09
AATCATCTGAGGAAGATCGGAGA	29	57.91
AATGTATCTAATGTTCTGGTTGGAGGA	493	59.23
ATCTGTCGTGTATGTAGCCGTCA	154	58.28
AAGGAGGAGTGTTCCACAACCTG	891	56.91
AAGGAGGAGTGTTCCACAACCTG	605	56.91
GCATCTTCGGCTTCTAGTGG	314	56.27
GCATCTTCGGCTTCTAGTGG	314	56.27
GTTACTCGCGCTAAGATGGACT	806	56.52
TGAGTTGGTGATGATGAGTGATTC	491	57.65
TGAGTTGGTGATGATGAGTGATTC	604	57.65
CATGTTCCATGTCAAGCAGCT	140	57.43
TTGTGCAGCATCGGTCGTTA	1667	59.84
TTGTGCAGCATCGGTCGTTA	1654	59.84
AACTCCGTTACGTTAGAGATGTG	222	58.38
CGAAGAAGACTCAGAATTGGTGT	457	56.28
AACTCCGTTACGTTAGAGATGTG	313	58.38
CTCATCATTCGGCTCAGTGC	379	57.99
GCGTACTGCTGAATTAGCTGCA	69	59.3
GCGTACTGCTGAATTAGCTGCA	105	59.3
GCGTACTGCTGAATTAGCTGCA	150	59.3
GCGTACTGCTGAATTAGCTGCA	105	59.3
CGGATCTGACATCGAATCTGTAC	1568	57.31
GCGTACTGCTGAATTAGCTGCA	69	59.3
GCGTACTGCTGAATTAGCTGCA	150	59.3
CGGATCTGACATCGAATCTGTAC	1592	57.31
GCGTACTGCTGAATTAGCTGCA	71	59.3
CAATGTTGTTGAATACGCTTGAAG	441	57.58
CCTCAGTATGGATTCGAGCGA	110	58.88
GGCATCCTTCCGTTCTACACTC	39	58.71
CGACTTCACACAGTTCTATTCTCAA	1842	56.49
AGCAAGACAACGATGATGACG	658	57.43
CTTCCTTACGAGTTGTCCAGATTC	1260	57.19
GGCATCCAACAGAGAACGAG	1513	56.91
GGCATCCAACAGAGAACGAG	1513	56.91
GGCATCCAACAGAGAACGAG	1475	56.91
GGCATCCAACAGAGAACGAG	1475	56.91
GGCATCCAACAGAGAACGAG	1489	56.91
GGCATCCAACAGAGAACGAG	1333	56.91

GGCATCCAACAGAGAACGAG	1333	56.91
GGCATCCAACAGAGAACGAG	1309	56.91
CGAACTTGGAGAACGACGAC	760	56.98
CAGCAGCAGCAGCAACACAT	1522	59.78
CGAACTTGGAGAACGACGAC	760	56.98
CGAACTTGGAGAACGACGAC	927	56.98
ACTTGTGCTCAACGATAGTGATGTC	1284	58.39
TCGCAGAGTCGTGGAGAGAT	1785	57.13
GAGTTGAAGATTGGCGGAGAGGT	359	61.71
GGAACGATTGGAACAGTCACTC	339	57.23
CAATCAGAAGCCACGAAGCA	878	58.6
GATACCTCCAACGATTCTCTACTTC	187	57.97
GAACAGCAATCAACTCAACTATTCGTAG	293	59.64
GGCAGATGAGATGGCGAAGA	266	59.88
GCCGAGAAGAGCAGTTGGTC	486	58.62
CTTGAGCCGAGAGGAGCAGT	487	58.37
ATGCTGATTACAACGCGTTTCG	199	58.9
ATCTAATGGCACCCGACGAC	142	59.69
CATACGGAAGTGGCACTGTG	299	56.22
TGCAACTACACCTCCGTTCA	898	56.35
GGCATGTATATGGAGTATTATTCACATG	257	57.93
GTTGCAGTCACTGGAGCTGGTG	566	61.77
GTCAACGCTCCTTACATTCCA	1638	56.44
TGAACAAGGCTCGTGCTGAT	856	58.05
TGAACAAGGCTCGTGCTGAT	856	58.05
GATCCGTGTACTCATGTTGCTG	268	56.83
ATCAGAGGAGAAGAAGCTGTTATTGATG	5449	60.41
GGACGAGTTATCACTTCTGAGACACA	171	59.7
ATGCGAGAGATACACAATAGAGAACTG	361	58.2
CTGAGTGGAATCGGAGAACATAG	1669	56.63
TTGGAAGAAGAACTGGAGCACT	2699	56.83
TTGGAAGAAGAACTGGAGCACT	2636	56.83
TTGGAAGAAGAACTGGAGCACT	2700	56.83
TTGGAAGAAGAACTGGAGCACT	2819	56.83
TTGGAAGAAGAACTGGAGCACT	3092	56.83
TTGGAAGAAGAACTGGAGCACT	2915	56.83
TTGGAAGAAGAACTGGAGCACT	2642	56.83
TTGGAAGAAGAACTGGAGCACT	2909	56.83
TTGGAAGAAGAACTGGAGCACT	2973	56.83
TTGGAAGAAGAACTGGAGCACT	2972	56.83
TTGGAAGAAGAACTGGAGCACT	3314	56.83
TTGGAAGAAGAACTGGAGCACT	3587	56.83
TTCAACAATCCGACAACGATAGTG	742	59.87
CGGAACTCACAGAAGAACGGT	35	57.91

CGGAACTCACAGAAGAACGGT	852	57.91
CTCAGCATCTCACCAACACAGT	232	56.5
CTCAGCATCTCACCAACACAGT	232	56.5
CTCAGCATCTCACCAACACAGT	232	56.5
CTCAGCATCTCACCAACACAGT	232	56.5
AACTATTCGGTCACCGAAGGAA	51	58.62
CTGTTGGTTGGAGGAGCACA	254	58.29
GCAACTACGGCACAACCTTCTTAC	325	56.87
CCAGTATTCGGAGCCACAACA	1038	59.57
CCAGTATTCGGAGCCACAACA	1069	59.57
CGCAGTTGGTTCTACGATTGTG	1018	59.27
CAGAGTATGTGCGGTAGGAGAGA	54	57.28
ATTAAGTACATGAGTCAGGAACAGAAGT	1558	56.19
ATTAAGTACATGAGTCAGGAACAGAAGT	1816	56.19
AGATTGCCGAATCGCCTGTA	410	59.26
AGATTGCCGAATCGCCTGTA	479	59.26
AATCGTGTTCTTCTGAGTATGG	862	56.08
TCCTGAACCACCAACTGCAA	1023	58.7
TTGGTGGTGGAAGTAGTGAGACG	2205	60.02
GGAAGGTGCATGGAGACTAGAC	36	56.5
CGAAGAGGACACGCTGGAAC	35	59.43
CCTGTGGAGGAGGATGTGGA	236	59.47
CGGAGAGAAGAAGTCAACCAAG	1174	56.84
TTAACAGACGCCGGAGCATT	249	59.3
GCCAACCGCAAGAAGGAAGA	110	61.18
AATCCGTTCTTGTGGTTGCC	402	58.49
AATCCGTTCTTGTGGTTGCC	93	58.49
CTTGTATGGATGGAGTGAGGCA	1672	58.66
CTTGTATGGATGGAGTGAGGCA	1779	58.66
CTTGTATGGATGGAGTGAGGCA	1829	58.66
TCAGTCAGATGGAGGAGGAAGG	213	59.26
GTAAGCGACGATGATGATGGC	258	59.14
CTCAGCAACCAGCAGTTCCG	132	60.53
CCGTCCACCACGAGTGATAC	296	57.45
CGACGCTTCTATCAACCTCAG	379	56.35
CTCTCATATCTACTGATGTGACGAC	448	57.98
CAATTGCTATATTCGTTCCAGGA	120	57.01
TCAACTCTCGCCGAGTATAATAACC	868	58.79
GTATCGTAATGCAAGTGAGCATT	799	56.72
CGAACAATCTCCATCAACGG	484	57.6
CGAACAATCTCCATCAACGG	482	57.6
CAGATCTGGAGCGATATCACTG	128	56.15
TATACTTCGTTCCGCTGGA	662	57.23
TTGATGGCGATGCTCACTGC	687	61.86

TTGATGGCGATGCTCACTGC	687	61.86
GCTCATTGAACAGGACCACTG	839	56.83
GGATATTGTGATGAAGCATCCG	444	58.01
AATGTATTCATGTGGAATGTACGATG	1195	57.86
AATGTATTCATGTGGAATGTACGATG	1250	57.86
TGCCAAGTGGAGGATATTGTTCT	351	58.63
CTCTGGTAACTTCTCCTTCAATACTTCT	1676	57.21
AGGAGGAAGAAGAGATTGATGCT	964	56.46
AGGAGGAAGAAGAGATTGATGCT	964	56.46
AGGAGGAAGAAGAGATTGATGCT	809	56.46
AGGAGGAAGAAGAGATTGATGCT	964	56.46
GCTGGACAGGTCTCACATTGTG	966	59.21
ACTATGTGTCACCACTGCCGTA	136	56.77
TCTGAAGAGGTAGATTGCCACTC	49	56.37
CGTCTTCTCGCTAACCAGAGC	64	57.97
ATCAGTGGTGTCAAGCAGCA	94	56.38
AACAATGGAGGAGGCGACGA	107	61.48
AACAATGGAGGAGGCGACGA	160	61.48
AATGCAAGGCTTGAATGAGCA	129	59.43
AACCATTATCTACTGGCAATAAACACTC	1519	57.12
AACCATTATCTACTGGCAATAAACACTC	1628	57.12
AACCATTATCTACTGGCAATAAACACTC	1407	57.12
AACCATTATCTACTGGCAATAAACACTC	1527	57.12
AACCATTATCTACTGGCAATAAACACTC	1628	57.12
ACGACGCCTTCTCCTTGTTAC	35	57.1
GCTGCTGATGCCGATGATGA	769	61.84
CATTGGCACGGCTGAAGAAC	2266	60.21
TTGCTCATGACGAACCTAACAG	449	56.67
ATTATAATTATCGCGGCGGTGT	78	58.47
GAGGAACTGGCGGCTTGTCT	154	60.34
GAGGAACTGGCGGCTTGTCT	223	60.34
GGAGGACGAAGAGATGATTACCA	141	58.21
GGAGGACGAAGAGATGATTACCA	141	58.21
TATGGAAGAGAACGAGACGATGA	1566	57.57
TATGGAAGAGAACGAGACGATGA	1566	57.57
ATCCGCCGTTATTGAGACAG	473	56.39
ATGGAGGAATGAGACGCATACC	455	58.92
CGAGAGAGAACAGAAGAAGAACG	119	56.32
CGAGAGAGAACAGAAGAAGAACG	187	56.32
TGAAGGTGGAGAATTCGAGTCA	624	58.37
GGA ACTATTGCCGCTACACTG	154	56.2
GGA ACTATTGCCGCTACACTG	154	56.2
GGA ACTATTGCCGCTACACTG	182	56.2
AATAAGCGAGTATACAACCATCGG	121	57.44

CAGAATGGAGGTGGAGAGGTC	1307	57.22
AACCACAACCGATTCAACCG	498	59.28
AACCATCACGCCGCAGAATC	923	61.87
TTGGTCTGCCGTCTGTGGTC	408	60.67
GCTCGTCGGTTGCTATTTCAG	234	57.2
AACCATCACGCCGCAGAATC	815	61.87
TTGGTCTGCCGTCTGTGGTC	631	60.67
TTGGTCTGCCGTCTGTGGTC	267	60.67
TTGGTCTGCCGTCTGTGGTC	267	60.67
GCTCGTCGGTTGCTATTTCAG	234	57.2
TTGGTCTGCCGTCTGTGGTC	631	60.67
TTGGTCTGCCGTCTGTGGTC	408	60.67
CAGTATGTTGGATGAGAATGGAGA	636	56.87
GCTGTGCCGAAGAGGACGAG	253	61.96
GCTGTGCCGAAGAGGACGAG	313	61.96
GCTGTGCCGAAGAGGACGAG	246	61.96
GCTGTGCCGAAGAGGACGAG	192	61.96
GCTGTGCCGAAGAGGACGAG	363	61.96
GTCTGCTCCGTCGTCTTCCT	475	58.07
GTCTGCTCCGTCGTCTTCCT	286	58.07
GTCTGCTCCGTCGTCTTCCT	67	58.07
GTCTGCTCCGTCGTCTTCCT	35	58.07
GTCTGCTCCGTCGTCTTCCT	242	58.07
GTCTGCTCCGTCGTCTTCCT	438	58.07
TTATGATGGTCACTACGAGGTTGT	926	56.41
CTGCTCCTTGCTCATTGCTTC	36	58.81
GAACGGATATGTGTGTAGCAAGAG	698	56.69
GGAGGCAAGAAGAACAAGAAGA	200	56.47
ATGCTGGCGGTACTGTGTATCTC	1232	59.17
ACACATCTCGGCATGAACAGTTG	76	60.91
GGAACGAGGAACGGATCACAT	41	59.77
CGGTGGAGACGGTACTCTCCTT	78	60.47
ATCCAACCACCATTCAGCC	1909	58.3
CTGGAGACGATGAATCAGCGAGT	1826	61.58
CTGGAGACGATGAATCAGCGAGT	2220	61.58
ATCCAACCACCATTCAGCC	2125	58.3
CATCTGGTTATCCTGGTCAAGAGC	121	59.96
CATTGCTGGTGGTAGTGTGG	56	56.06
CGTCGTAACACAAGACAACCAGT	146	57.85
GATGTGCTCCACCACCACCA	342	61.38
GATGTGCTCCACCACCACCA	171	61.38
TGGAGCAGACAAGAGACGAAT	346	56.19
TGGAGCAGACAAGAGACGAAT	292	56.19
TGGAGCAGACAAGAGACGAAT	280	56.19

TTACACACAGCTCTTGGAGCAGTG	88	60.46
TTCGCCTCGTCATACATACATTG	57	58.64
TTGTACTAGTGCAGCCGAGGA	1763	57.27
TCGATTCTAGGTATTCAAGTCCTC	51	56.69
ATGCTCTTCAATCCACCACAG	217	56.32
TTGGCTTGTAAATCGGTTATGTG	310	56.42
ATGTGGAGATAAGCCTTGGAAGAATG	123	61.64
GACTCAGTGATTGATATGATTATCCAG	1035	56.19
GAATAAGACCGCAAGCAACATC	129	57.51
ACGTCGAGAAGGACCTTCAACA	117	59.74
ACGTCGAGAAGGACCTTCAACA	111	59.74
ACGTCGAGAAGGACCTTCAACA	117	59.74
CACCTGGATTAGATACAGCAGAACT	488	56.84
AAGAGATTACTGTAGAACCGATTGATGG	1121	60.09
GCTCCAGCATACATTGCCTAC	680	56.13
ATTCGGTGGACCTGGTGGAC	906	60.58
AAGAGATTACTGTAGAACCGATTGATGG	524	60.09
CGATCCTAGAATGATTGCTGAAG	279	56.81
CGATCCTAGAATGATTGCTGAAG	316	56.81
GCTTCACAGATATTCGCATGTTC	460	57.53
CAAGGTAGAACAAAGTATCGACTCATC	782	56.45
AAGCACACTCCAAGAGACACTGT	1461	56.74
AATTGAGAGCAGTGGAATACGATC	40	57.51
AATCAACGCTCGGACAACAAG	86	58.83
TAATATGTGGAGAACCTTCAACTGGA	324	58.98
CGATGGAATCCTGCGGAGAG	67	61.58
GTCTATAGTAATGACGCGACAATGG	454	57.89
CCAGCACAACTGCCACATCA	398	60.28
AAGATTATTGCCTGCGGTGA	1872	56.93
TTCGCCGTGTTATCTTCCTT	160	56.09
TCAATCACTTGAGAGGAACCATT	222	56.45
GGCGATGATTCACACTATTGGAC	216	59.33
TTATAAGGTGGACGCAGAGGAA	231	57.52
CAGGAGTCGGATGATGGAGT	94	56.1
CAGGAGTCGGATGATGGAGT	159	56.1
TTGGAATCACGAATGGAGGA	711	57.52
AGGTTCTACAACACCAGTTCAGG	186	56.09
AGGATATTGCTCAGAGGATTGG	1259	56.08
AGGATATTGCTCAGAGGATTGG	1403	56.08
AGGATATTGCTCAGAGGATTGG	1265	56.08
AGGATATTGCTCAGAGGATTGG	1409	56.08
TTCAACTATCGTGTGGAGATGC	141	56.45
ATATTGTTGTTGATGAGGCACATTG	929	58.84
AGTCATTGGCGACGAAGGCT	75	60.73

AACAGTATGACGGAATGAAGCA	3527	56.03
CCATCCTGACTGCCTATCACTCG	2714	61.8
GACTTGATGATCGGAGAATTATGGC	182	60.04
AAGAGGAGGAGGACGAGCCT	322	58.11
AAGAGGAGGAGGACGAGCCTT	323	59.44
CGTTCGAACCGAGAGACCAA	112	59.81
CACTAACAAGCTATGGATTGTCTACAG	474	56.64
CACTAACAAGCTATGGATTGTCTACAG	717	56.64
CACTAACAAGCTATGGATTGTCTACAG	474	56.64
AACATCGCCGTCGCTAACAC	416	59.73
CGATGGAAGACAGAGTGGCT	742	56.5
TCATCGCAATCCAGACAGAA	90	56.34
TGCAAGACGAGATCCAATCTGT	145	58.4
GAAGGAAGATCAGAATATACGAGAAGA	743	56.68
CGTCGAGCTTATTCGAGTGC	49	57.35
TTGGATCTAGCTGGAATGCAA	480	57.07
GGATATAGCTGGAATGCAATCTAAG	633	56.49
TGAGCCACAGGTAGCAATCG	64	58.47
AACCACAGCGTCATTCTGGA	554	57.74
AACCACAGCGTCATTCTGGA	554	57.74
GCCATCCAAGAAGATGTCGT	201	56.23
CGCCAGCCGTCTCTAATGTG	534	60.36
GGAGCAACACTTGTCACGGT	207	57.22
AATGAAGAAGATGGTGATGCAAGAAG	523	60.74
TCACCAGAATGCCTGATATTACAC	163	56.85
AATTCTGTGATCATGCCGCTA	191	60.53
AAGTTGGAGCCACTCAATGG	263	56.3
CGGCAATTATCCATCAGGAA	150	57.12
CGCAAGACGCAAGAGAGTTG	549	58.4
GCTCCTACGCATTCTTCTACATC	552	56.05
TCGTTCAAGATATGATGCTTGAGG	493	57.96
TCTTCAGAAGCATTCTGCTTACAT	188	60.23
TCTTCAGAAGCATTCTGCTTACAT	200	60.23
GGCGATGGATATGTTGAGAGTT	413	56.81
CCATCCGCAAGAAGGAAGAC	277	58.32
GAATGGCGAAGAGCAATGGA	232	59.74
CGACTATTCCGCTGCTAACAAG	182	57.86
CGACTATTCCGCTGCTAACAAG	214	57.86
CGACTATTCCGCTGCTAACAAG	227	57.86
TCTCTATGCTCCGTCGTGTG	180	56.02
AAGAATGGTTGGCAGTGAAGTC	496	56.94
AAGAATGGTTGGCAGTGAAGTC	516	56.94
AAGAATGGTTGGCAGTGAAGTC	485	56.94
ACATGCTGATATGTCTGACGTACAC	242	56.91

CCTCGCAGCCTTCCTTCTAC	40	57.77
GAAGGCTACTGGCGAGACTACTG	103	58.37
CACTGCTGCTCCAGTCGCAT	132	61.12
AGTTCAACAGTGGTACTTGCTGCTCT	338	60.67
TGATTCTACGCCATTCCAACCTC	2442	57.81
CGACAGGTGCTGGAGAGAGA	2259	57.69
TACTTCAATGGCTATTCTATCACCTG	247	56.85
CCTGTTGAGCGCGCTAACTG	60	60.66
GAATTACTGCAATGCAAGGAATC	666	56.63
AATTCTTCATGGATTGTGCAGTCTG	701	60.33
TGTCAACCACCAGTTATGCCA	862	58.48
TCTTACCGAGCCAACTACCG	578	56.61
TCTTACCGAGCCAACTACCG	623	56.61
TCTTACCGAGCCAACTACCG	578	56.61
TCTTACCGAGCCAACTACCG	623	56.61
TATAATCATTCTCCAAGTGAATTTCGC	343	58.66
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CCATATCCGATGCTGCCGTT	69	61.66
TGGTGGAGACGAACAGGTCAACT	169	61.77
AATGCGAATCCTGAAGAGTTGA	582	57.55
AATGCGAATCCTGAAGAGTTGA	562	57.55
TTCTATCATCATCCTGGCTTCC	382	56.87
CGCTCCTCATCAACACTTCTC	32	56.19
TTCTATCATCATCCTGGCTTCC	406	56.87
GACACATTGTGAGAACTACAATTCCA	295	58.17
TGGCCACTCAACTGGCTGAA	41	61.33
ATCAAGACACGGAGAAGATGCTT	107	58.03
CTGAAGTTCGACGAGATTGACG	612	58.59
GGCAGGTGAACGGACTCGTC	131	61.58
TGCTTCGCTCACTGCTCGTC	81	61.38
AGTGATGAAGAATCAGGCGGAA	268	59.67
ATTCTACTCTTCGTTCAATAAGTCTGC	78	59.83
CGGAGTTCTCACAGCCACAG	1156	58.03
GGATGTGGAGAAGGCTGGTA	1083	56.23
ACCGAGAAGACGCTCCAGAT	377	57.54
GCGAGTTACGTGTGACTCTTGC	284	58.66
AATCTTGATGAATTGTGGAATAATGGT	719	59
AAGCAGCATATCGAATCGCAA	58	59.43
TTGTTGTGCAGTATCGAGGAGA	983	57.11
GAATGGTGTACATAGAAGTGATTCTGA	626	57.4
TGCAGCACGTTTCATGCACAA	23	62
TGCCTAACAAGTACAACGCCAA	307	59.29
TGCCTAACAAGTACAACGCCAA	387	59.29

AAGATGCCAACGATCTCACAA	240	56.88
TCCTTGATGAGAATAGCAGAGTGA	88	56.9
GCAACTGTCATCATTGTTCCACT	106	57.71
TTATGGAGCGAGGTGGAATC	231	56.29
AACCGCCGATAGACGAAGAG	567	58.03
AAGACGCAGCCATCAAGGACT	907	59.85
CGAGCATCAGGATCAAGACAA	290	57.49
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TTGAATCTTCGGAATCGCACA	930	60.15
GCCAATTAGTGGACATTCTCATC	163	56.38
AATGAGCCAATCGGAAGAGA	403	56.01
AATGAGCCAATCGGAAGAGA	403	56.01
AATGAGCCAATCGGAAGAGA	403	56.01
GGAATCACGAAGCAACTGTCAA	254	58.82
GGAATCACGAAGCAACTGTCAA	250	58.82
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AATGTACAATATGTGAGTCTCCTCTGG	166	57.84
AATGTACAATATGTGAGTCTCCTCTGG	61	57.84
ATCAGCCACTCTAGCCATATCTCA	311	58.08
TTCTGAGGAATGTGAACAAGAGAA	440	56.79
ATGTACCAGCTTCAACTCAACCA	532	57.42
TTATTGAGCATCCGTTGGAAC	583	56.34
GCAACTACTGTCATGCCAACCC	364	56.81
CCAGAACCACCAACTGCTGA	308	58.29
CGAGGAGGAGACCGAGAAGA	1102	58.14
GTTCTCGGTTACAACATCTGAAGA	296	56.27
GTTCTCGGTTACAACATCTGAAGA	296	56.27
ATCTGGTCTGCGTCAAGTGC	489	57.48
ATCTGGTCTGCGTCAAGTGC	489	57.48
AGGTCGGTGGAGGAGGAAGT	1180	58.61
AAGAGGTCCAGAGGTCCAGACG	53	60.6
CACTAACTCATCTTGTAGCGGTTCTTA	561	60.04
CACGTCACCATCATCCAGCA	48	60.09
GGCGTGGACTGTGTATCAAGC	647	59.2
TGCGTCTAATTCAAGTTATAGCACA	507	57.02
TTGCTACAATATGTGCGATGACA	399	57.87
CATTATCATCTGTGTATGCTATTGCTG	472	57.97
GGAGCAGGAGAAGATGTAGACCA	27	58.48
CATTATCATCTGTGTATGCTATTGCTG	472	57.97
GGCGAGCAATACAGTGAGCA	85	58.62
GGCGAGCAATACAGTGAGCA	85	58.62
AGTGATATGGTATGATTCGGTACTTGA	556	58.07
AAGGAACTTCTTGTGTTACATGGAA	1643	57.08
TCCGAACTTGATGCCACTGC	1003	60.75

TCCGAACTTGATGCCACTGC	878	60.75
AACATGGTTACTCCAGGACAATCG	875	60.09
AACATGGTTACTCCAGGACAATCG	750	60.09
TACGGAAGGAGACTCAAGACTCAATG	635	60.9
TACGGAAGGAGACTCAAGACTCAATG	600	60.9
ATCACTGTTATCGCATTCTTCGTCA	145	60.79
TTCACAACGACGCCACACAT	334	59.58
TTCACAACGACGCCACACAT	425	59.58
AAGTCAAGAATGCTTGGAAGGTAG	1183	56.93
AAGTCAAGAATGCTTGGAAGGTAG	373	56.93
AAGTCAAGAATGCTTGGAAGGTAG	1073	56.93
AGCTGGAGGACCACATGGAT	180	57.99
GCAACTCTCACACAACAAGGAC	67	56.02
AGTCTACCGAATCCAACGC	114	58.74
GATCACTGGAAGTTCATCTGGAG	1493	56.49
TCTTCTCCGAATCTTCCGCTTG	24	61.58
GCTCCATCCACACCATTGAC	647	57.36
GCTCCATCCACACCATTGAC	767	57.36
TTCTTGTGGCTACTGATGTTGC	1904	56.67
ACCACATCCACCGTTCTCCT	298	57.89
ACCACATCCACCGTTCTCCT	294	57.89
ACCACATCCACCGTTCTCCT	298	57.89
ACCACATCCACCGTTCTCCT	294	57.89
CACAGTTGGCTATGCACTCGA	1315	58.54
CGTGGAGCATGAGCAAGATG	339	58.98
AATTGTTCTTGTCGGATCGG	1523	56.21
AATTGTTCTTGTCGGATCGG	1544	56.21
GTACAGAAGTTGGCTTGAAGTAA	489	56.47
CATTGAGGAAGGAATCATCCATCA	1106	60.94
TATTGGCGGTGGAAGTATGG	170	57.06
TTGGAAGTATTAACAATTCTCAGGAA	470	56.44
CGTGATCTTCAACAATTAGTGACCA	1849	59.07
TGCGGAATCATGTTCTGGAC	232	58.09
GGATGAGTATATTCTGGAACCTCACAG	225	57.51
TGTTCCGTCAACATCAACTGA	168	56.17
TGTTCCGTCAACATCAACTGA	251	56.17
TGAACGATACAACAATCAGCAGAA	626	58.43
GAGGCAAGAGAGGCGAGCAA	85	61.63
GCAAGCTGCACTTAAGGACAA	41	56.95
TACTGGTTGATGCTGATTGTTATGAC	791	58.2
TGGCTCAATCATCATCTGGAAC	287	58.59
TGGCTCAATCATCATCTGGAAC	669	58.59
CAGGACCAGAAGGACTCGCT	255	58.07
CAGGACCAGAAGGACTCGCT	255	58.07

CAGGACCAGAAGGACTCGCT	255	58.07
CAGGACCAGAAGGACTCGCT	255	58.07
TGACTCATCTTGTGCTTCTTCTCG	41	59.65
CAGGAGAGGCAGAGAATGGA	479	56.56
TGCACAGGTCGCTATTCTTG	132	56.16
GCTGCTCACACTTCTGCTGGA	957	60.3
TCAGCAGTAACAGGTTCCAGTTC	275	57.16
TCAGCAGTAACAGGTTCCAGTTC	275	57.16
AAGAAGTGGAATCCATTGAGAGAA	534	57.11
CCTCACAGCTCTTCAATGGTTCA	937	60.23
CCTCACAGCTCTTCAATGGTTCA	937	60.23
CCTCACAGCTCTTCAATGGTTCA	937	60.23
CCTCACAGCTCTTCAATGGTTCA	1262	60.23
CCTCACAGCTCTTCAATGGTTCA	1262	60.23
CCTCACAGCTCTTCAATGGTTCA	1262	60.23
GATTATGATATTCTTCACTGAGCAACA	79	56.83
AGGACTTCAAGAGCGAGGATG	216	57.22
TCGTCAAGAAGGCTATCGCT	35	56.42
ATACATCGCTGAATACAAGGCTCT	448	57.27
ATACATCGCTGAATACAAGGCTCT	448	57.27
ATACATCGCTGAATACAAGGCTCT	597	57.27
AACTACGGAATGTGTGGAAGAGGA	1505	59.87
TTGGATGATGAATGTCTTGCTG	471	57.29
TTGATTGCTGCTGGACTTGCTG	2268	58.51
AGGAGATGGATTGATGATTATTGGAC	322	59.45
AAGATTGTGCGGATTGTGGT	87	56.58
AATGCTAGTGGTTCATCGTCAGATG	663	60.35
TCACGAGCAGAAGCTCAAGTG	154	57.99
ACAGTGAGTCACGGTGAGGTG	66	57.2
ACAGTGAGTCACGGTGAGGTG	22	57.2
ACAAGGACTGGTTCATCACGA	710	56.68
TCCTAGCGTCGGTGATGGTT	1080	59.14
CCACGGAGACATTGTCATCG	142	58.52
CCGAGTAGGCAATGAAGCGA	61	59.93
CCTGCTGTACAATTATGTGCAGA	127	56.67
GCTTACGACACTCCTGGTAGACA	413	57.19
TTATCACCCTCTCCAGACACAAC	1665	56.89
CCATCTATCGTGCCGGATTC	228	58.94
GGCGTCCGTTGTTCTTCTAC	234	59.59
AACGCACCATTGAGAGGAAC	205	56.3
AAGTTGGAGAGATGTTGAAGCC	539	56.2
TGGTGGAGCAACTGTTACGG	319	58.22
ACACACACAACGAACCTATCCA	991	56.59
TCGACAGTAGTCAGTACATATGCTGT	89	56.03

CGAGCAGGAGGATGTCACGA	858	60.92
G TTCAGATTCACTTCCGATGGT	150	56.74
G TTCAGATTCACTTCCGATGGT	150	56.74
TTACGCAGAGAGCCTTACGG	293	56.91
AACATCACGCGGAGATTCAG	74	57.35
GGCGAATAAGACCAGGAAGGA	152	59.14
CGTACAACAAGGAGGAGCTGGTG	420	61.83
CGTACAACAAGGAGGAGCTGGTG	146	61.83
ATTCCGATGTTCAACGCCAT	73	58.85
GCAGGTAGTGATTGCCGCTA	23	57.62
AGGAGACCGAGGAGAGCAAG	792	57.27
AGGAGACCGAGGAGAGCAAG	792	57.27
AGGAGACCGAGGAGAGCAAG	815	57.27
CTGCTATCTTCCATATCACGCTCA	1428	59.39
CTGCTATCTTCCATATCACGCTCA	1368	59.39
TTGACATCACCGACAATAACCTT	234	57.17
ACATCAGTTCGGTATCGGAGGA	842	59.42
GGAAGCATCTTCGTCTGGAAT	1605	56.96
GGAAGCAACAACAGATGAATGG	1597	58.17
GAAGAAGCTGCTGATGTAAGGC	99	57.04
TGGTGGAGATGATGCTATGATTC	972	57.63
TGGTGGAGATGATGCTATGATTC	983	57.63
TGGTGGAGATGATGCTATGATTC	780	57.63
TGGTGGAGATGATGCTATGATTC	791	57.63
TGGTGGAGATGATGCTATGATTC	972	57.63
TGGTGGAGATGATGCTATGATTC	983	57.63
TTCTGGACAATTCCGTCCTGT	414	58.98
CGTGTATCATACTACATTCAAGAGCGA	319	59.61
CGTGTATCATACTACATTCAAGAGCGA	470	59.61
GACAACCACAAGTTCACCTGTTC	517	57.22
CAAGGCGATGAAGGAGCAAC	2042	59.4
CAAGGCGATGAAGGAGCAAC	2042	59.4
ACGTCGAATCTCTGAGAATGTGC	447	59.37
ACGTCGAATCTCTGAGAATGTGC	202	59.37
ATAACTGCCGCTGAAGAACAATG	769	59.29
CGTTCTCTGTTGTGATGCTGA	1581	56.07
CGTTCTCTGTTGTGATGCTGA	1659	56.07
AAGCACAGGATGATGACAAGG	60	56.32
AAGCACAGGATGATGACAAGG	60	56.32
TTCGCAACAAGATGATGGAGA	1366	57.89
GGCTTGGAAGAAGAATAATGAGTCT	71	57.34
ATGAGGAGAGAGACACAGACGATG	256	58.49
G TTCAGCAAGACTTGTACGGTGAT	145	58.38
G TTCAGCAAGACTTGTACGGTGAT	170	58.38

GTTCAGCAAGACTTGTACGGTGAT	154	58.38
ATGGCAATCAGGAAGTGGAA	159	56.64
GCACGATAGTGGAGTCTCAAGAATC	60	59.3
TCGGTGAAGTTGAGAGGAGGA	436	58.45
TCGGTGAAGTTGAGAGGAGGA	436	58.45
TCGGTGAAGTTGAGAGGAGGA	278	58.45
GCTGTTGGATGAGGAGGCTA	169	56.55
GCTGTTGGATGAGGAGGCTA	316	56.55
CTGGAGGAGTATGGAGTGATTGG	451	58.59
CGAGTGCTGGCTGAATCTGT	128	57.64
TTGGCAGGAGCATTGTGAGG	29	60.74
TTACAGGATAACGCTATGAAGAGCA	1528	58.24
GCAACTCCAGACTCCAGACAA	675	56.55
GCAACTCCAGACTCCAGACAA	675	56.55
GCAACTCCAGACTCCAGACAA	865	56.55
GCAACTCCAGACTCCAGACAA	692	56.55
TGGTCGGTATCAAGAGCAACT	660	56.04
TGGTCGGTATCAAGAGCAACT	660	56.04
TGGTCGGTATCAAGAGCAACT	850	56.04
TGGTCGGTATCAAGAGCAACT	677	56.04
GAGCCGCCGAGCATAATACG	2119	61.51
CGGTGTATAAGCCAACAGCGA	1211	59.73
CGGTGTATAAGCCAACAGCGA	784	59.73
GTTGAGCATACCGCCGTGAT	802	59.55
TTGATGAAGAGGAGGCAGACG	4773	59.01
TTGATGAAGAGGAGGCAGACG	5361	59.01
TTGATGAAGAGGAGGCAGACG	5293	59.01
CAGGCGAGATTGTCAACCGA	1557	60.74
CAGGCGAGATTGTCAACCGA	2050	60.74
TTGATGAAGAGGAGGCAGACG	4865	59.01
TTGATGAAGAGGAGGCAGACG	4324	59.01
CAGGCGAGATTGTCAACCGA	405	60.74
GGCCGTTGAAGATGGTATCTG	99	58.13
TTCCGATGAATGTGATTAACGAG	960	57.75
AACTGAAGAAGTCATCGGTGCT	1239	56.71
CCAAGTCTAACTCGAACAATAGCC	91	57.29
TACTGTCCGCTGCTCATTCAG	625	57.73
CAGAAGACAGGACGAGACGGT	825	57.99
TTCAGTCCATTACCGTCCAT	623	58.84
ACTGAAGAAGAAGTACCAGGCTGAGAT	1763	60.15
ACTGAAGAAGAAGTACCAGGCTGAGAT	1763	60.15
ACTGAAGAAGAAGTACCAGGCTGAGAT	1763	60.15
ACTGAAGAAGAAGTACCAGGCTGAGAT	1763	60.15
ACTGAAGAAGAAGTACCAGGCTGAGAT	850	60.15

ACTGAAGAAGAAGTACCAGGCTGAGAT	850	60.15
ACTGAAGAAGAAGTACCAGGCTGAGAT	850	60.15
ACTGAAGAAGAAGTACCAGGCTGAGAT	850	60.15
TTGTATGGCATCACTTGGACA	425	56.1
TTGTATGGCATCACTTGGACA	278	56.1
TTCAACTTCAACTATTCCTGCTT	754	58.07
TTCAGAGCTCTGGTTGCACA	764	56.69
AAGTCAATATGTTAGAGCTGCTCAGTT	170	57.23
AAGTCAATATGTTAGAGCTGCTCAGTT	170	57.23
CGGAGATCCTGAGATTCAAGAAG	1143	58.1
TTCCAATAACATTCACTTCTGCCT	415	57.9
TTACCTTATTATTGGAATGACAACTCA	380	56.33
TTACCTTATTATTGGAATGACAACTCA	380	56.33
ACTTCCTCGCACTGCACAGA	519	58.19
AGGAACATCAACCGCTCAAG	195	56.46
TACTTCCAACAGCAGACACTCCT	696	56.79
ACGTACTGTGCATTCTATGTTGCT	42	56.77
GTAACCTCACTCACAACTGCTTCAAC	1361	57.37
GGCGGAGATAGACATTAAGTGG	51	56.55
CGCATTCTGTGACCAAGAAGATAC	139	58.81
CGTTCTTATCTACTGCTCTGTTGTG	44	56.27
ATGTGTCAAGTATCGCCAACC	1835	56.16
TTGGTTCGTGTGGAACAGTCG	1221	60.54
CCAAGTCTGGAGGAGATTACGC	268	58.84
ACTAACACTGGTCCTGCTTGCC	318	59.28
CCGTAACGCTGATCGTCTCA	49	58.47
GATTACAATTGTTTCATATTCTGTGACC	96	56.09
AAGCTGTGGATATTGTTGTCTGAC	335	56.15
GTATTACACAAGAGGAGTCGATCCAAC	591	60.13
ATTGAATGCTTCCTGTGGTCCT	69	58.58
TTCCACTTGGAGTGCTTAGACTT	276	56.03
TTGTCCTACCGGATCAAGAGAT	470	56.41
TGGAGTTATTGATGGTGTAGCG	447	56.45
GTTTCCTGTTGCGCAATCATAACC	123	60.51
ATCCTCGCGTCGTCAATGAG	161	59.8
GCAATCATAACGATCAAGACAGG	134	57.39
AACTTGCGGATTGTGCTGTC	328	57.41
TTGGAGGACCTGGATCTGGAG	107	60.01
TCTAACTTCAATAATGAGCTTCTTCG	169	56.49
AAGGTTATTGATCCACAAGTTGAGCA	724	60.97
AAGTACTGGAATCTGATGCTCGAACA	343	61.23
AAGCCGTTACTCAATGGTGGT	351	57.22
CATTGATACGGTTGCTCGATTAC	111	61.47
TCCACCACCACCATCTTCTG	1488	57.92

TCCACCACCACCATCTTCTG	1117	57.92
TCCACCACCACCATCTTCTG	1011	57.92
TCCACCACCACCATCTTCTG	2235	57.92
ATCAGCCAAGCCAATGTCAAC	1330	58.65
AGGAGTTGGTCTTGTCTTATATGC	103	56.01
TTGCGTCGGAGAGTCTGGAG	114	60.1
AATGAAGGAGTTGATGGAGATGC	400	58.21
CAGTGCCAAGGACAACAAGC	478	57.95
GGTTAGGCTAAGAATTCGGCTT	93	56.91
GAAGCGGTGCATCAATCTTCTCT	138	61.78
AATGACAATTCAGTTGGACGAGA	25	57.34
CAGCGGAAGATGGTGATAAGC	173	58.41
CGATGATGAAGAGCCAGAAGG	878	58.48
CCGATTCTAGGCTCAGATGGT	558	56.99
TCGAAGTGCAACCAGAATCTATC	2112	57.14
CATACTGATTGATTGGATTGTAGCC	1253	57.69
CATACTGATTGATTGGATTGTAGCC	1197	57.69
CGGATGATATTCGCAGTGAAG	970	56.95
TCCTTCCTTACATCTGTGGTGGT	441	58.5
ATTATTGATACAGTAACTCATGCAGAGG	438	57.25
CCTAATGACCAGTTGTGCTGTTGA	161	60.03
CCTCCATCTCAATGAATCCTATG	1476	56.33
CCTCCATCTCAATGAATCCTATG	1575	56.33
CATGAACCGAATGGAGGAGA	145	57.11
ACAGTGTCACATTGGCGTTG	732	56.59
TTCAATGTCATTCTCTAACACG	567	57.03
ATACAATGCCTTGATATTCGC	315	56.83
AACTCAACTTCCAGTGCTACTGTCAA	344	60.1
TCAGATGATGGAAGGACGGA	497	57.59
CGTTACTCTATTATTCTGTGTTATTGCC	212	56.98
CGTTACTCTATTATTCTGTGTTATTGCC	236	56.98
CGTTGAGGACAGTGTTTCAGAGTAAC	594	58.07
CAGGCTCAGGACTTGATTGTAAC	2978	56.69
AACCGCAAGTGGCTTGGAAG	496	61.1
AACCGACTATGTCTCTGCCAGT	83	56.59
ACGGATGAGCTGAAGAAGTCG	123	58.15
GCTAGAGACTGGTGGCTTCG	728	56.37
AACCTGTTGCCGATGCTGAT	297	59.15
TTAATGAATTGAGCAACCGTAATCG	434	60.16
ATGGACTCGGATACGGTGGA	233	58.81
TGCCAATGCAACTGATGACTT	259	57.83
CGCCGAGAGGAGTTCTACGA	63	59.16
GCTTCGTTCTATTCCAGTTCA	513	57.13
GGAATCTGGCAATCGCAACA	51	60.55

TTGGATGCGTATGAATGGTCTG	307	59.42
TGTGTCGGATAGAGCATTGGC	890	59.68
TGTGTCGGATAGAGCATTGGC	890	59.68
TTGGATGCGTATGAATGGTCTG	307	59.42
TTGGATGCGTATGAATGGTCTG	408	59.42
TTGGATGCGTATGAATGGTCTG	711	59.42
TTGGATGCGTATGAATGGTCTG	618	59.42
TTGGATGCGTATGAATGGTCTG	711	59.42
TTGGATGCGTATGAATGGTCTG	307	59.42
TTGGATGCGTATGAATGGTCTG	936	59.42
TTGGATGCGTATGAATGGTCTG	513	59.42
GTTAGTGATGTGTGTGACGATCTCAT	63	58.14
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AATCGCCTGGAACAAGTCATC	1590	57.72
AATCGCCTGGAACAAGTCATC	1590	57.72
AATCGCCTGGAACAAGTCATC	1561	57.72
AATCGCCTGGAACAAGTCATC	1467	57.72
AATCGCCTGGAACAAGTCATC	1299	57.72
AATCGCCTGGAACAAGTCATC	1584	57.72
AATCGCCTGGAACAAGTCATC	1590	57.72
ATTGAACAGGCGAGGATGGC	1245	60.93
TCAACAGAGACAACGAAGAAGATG	283	57.29
ATTGACTACGATGATAACGGCGAGA	295	61.83
ATTGACTACGATGATAACGGCGAGA	404	61.83
ATTCTAACACCAACATTGACACCA	918	57.1
ATTCTAACACCAACATTGACACCA	975	57.1
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CCAGTCCAGAGGTATCGCCAA	824	60.95
CCAGTCCAGAGGTATCGCCAA	847	60.95
GTGGCAACACGAGAGGAGAT	299	56.33
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TTATACGCAGAAGAAGATAAGCCA	568	56.3
TTATACGCAGAAGAAGATAAGCCA	291	56.3
AACTTCAACTTACTCTCACTTCTTCTCC	280	57.27
AACTTCAACTTACTCTCACTTCTTCTCC	280	57.27
CAACTGGAGATGGAATCACATTG	125	58.04
AAGTTCAAGCTGGAGTCGTCA	233	56.26
TGAACGATCAAGCATTGACTGG	239	59.7
TTACGAATGCAGAAGCTGGTC	442	56.74
TGTCATCATCAATCCTGCTCA	3381	56.19
TGTCATCATCAATCCTGCTCA	3146	56.19
TGTCATCATCAATCCTGCTCA	3120	56.19
TGTCATCATCAATCCTGCTCA	3173	56.19
TGTCATCATCAATCCTGCTCA	3245	56.19

TGTCATCATCAATCCTGCTCA	3200	56.19
TGTCATCATCAATCCTGCTCA	3254	56.19
TGTCATCATCAATCCTGCTCA	3215	56.19
CAGTTGAACAAGACGGACTTACC	103	56.6
CAGTTGAACAAGACGGACTTACC	103	56.6
CAGTTGAACAAGACGGACTTACC	154	56.6
GGATCTGCTGTTCCACATCC	80	56.52
CTTCCGTTCCATTCTGCTGCT	95	60.33
GCCAGTTGAACAAGACGGACTTAC	74	60.03
CAGTTGAACAAGACGGACTTACC	75	56.6
CAGTTGAACAAGACGGACTTACC	75	56.6
CAGTTGAACAAGACGGACTTACC	27	56.6
GCCAGTTGAACAAGACGGACTTAC	26	60.03
CAGTTGAACAAGACGGACTTACC	43	56.6
CGATGAGGATGAGAGTGGTAGAGC	4841	60.22
CGTGTCTGCGTCGATTAGTATC	47	56.21
GCACATCCACAATTCTCCTTCT	104	56.88
GCACATCCACAATTCTCCTTCT	104	56.88
TCATCACTATGGCTACTGTGGCA	1350	59.24
TCATCACTATGGCTACTGTGGCA	1350	59.24
AACTTAGCCACCGACGAGAA	32	56.18
AACTTAGCCACCGACGAGAA	37	56.18
GATCAAGAAGAAGCTAATGAAGCATGG	348	61.51
TAGCATCTGCTGTAAGATCACCTAA	185	56.26
GCAAGAAGTGTGTTGAGCCA	1304	56.05
GTGGAGGCACAATCATGCTCAT	1143	60.85
TTGACACATGACTCGCCATC	57	56.58
GATGGAGAGAATACGCAACGAGA	182	59.34
ATATTGAGCGTACTCCGATCACTG	384	58.36
TGATGAGAACGCTGATGGATT	299	56.81
TATGAGGCAATGAAGGTGTCTG	1541	56.46
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TATGAGGCAATGAAGGTGTCTG	974	56.46
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TATGAGGCAATGAAGGTGTCTG	1522	56.46
TATGAGGCAATGAAGGTGTCTG	1642	56.46
AATGATTACTGTCTCTGATTGTCGAT	74	56.25
GCCTCTACTCTTCCTGCTGGTC	173	58.24
AACTACTCCTTATCACTCCTCCTCAA	265	56.95
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TCGGACTTGCTATTGCCAGA	1895	58.06
TTGCAACGATCGAGATTGTG	361	56.87
TCGGACTTGCTATTGCCAGA	1773	58.06
TCGGACTTGCTATTGCCAGA	1895	58.06

TAGATACATTCCATAAGGACGGAGGT	833	60.25
ATTGCTTCTGGTGACGGA	152	56.04
TTCTGTTGACGCAGTTGTCTACTTC	453	58.67
TTCTGTTGACGCAGTTGTCTACTTC	453	58.67
AATTGTTCTTGCCGATAAGGTG	466	56.97
ATCGTTGCCATCAAGTCGGA	949	60.04
ATTCCGACGACTAACCGCTGA	87	60.57
CTCTGGAGCTTATCAGGAAGACTC	209	56.67
ATAGACGGCATCGGAGGCAT	187	60.4
CCAAGTATTCCTCGCCTCCAG	768	59.67
TAGAACCGTCCTCCTGACTATCGT	44	59.18
GGTCAAGTAGTTGTAGGAAGCGAT	728	56.82
CTGGAGAGCGATGAGGAGAG	320	56.3
TTCGAATACTAGTTACATTACGTGGAA	218	56.53
TTAACCTGGAAGTGGACTCAACA	967	57.39
GGTAGACGTACAGTCGAATGACAC	669	56.5
CCAACAAGAATATTCGAGACGTT	54	56.2
AACACAGGCTCGTGGTTCGCT	711	61.75
GTCTCGTTAGTTATCTTATCTTGTCTCGT	580	57.73
TGTTGGCGTGATTGTTGTGC	940	60.13
TTGCGAGTGTTGGTGTGCTC	303	59.46
GGAACGCTACAGCATCTCCA	169	57.51
TAACGCCAACAGTGCTTAATGC	55	58.93
AATGGTGAAGATGGAAGTAGAGAGA	88	56.38
TGCAGACGATGCAGCTAGGT	775	58.23
GTTGACGACTCTCACGAAGATTGG	130	60.97
TATCCGACACTACCGCCTGAA	438	59.18
CAATCCGAGGACGCCTGTCT	55	61.12
ATGATGATGTTTCGCAGCAGTT	246	56.9
GAGAGACGAGTGGTGTGTTGA	434	56.47
GAGAGACGAGTGGTGTGTTGA	481	56.47
TCCTGGTCCGTCGTTGTTCA	832	61.05
AATATGGATGTATGCACTACTGGATT	494	56.07
TATCAAGCAGGAGAAGCAAACT	278	56.97
CATCTTGGATCGGATCATGC	292	57.48
TTCTAGCCTATCGAGGTTATGGAA	416	57.27
CATCGCACACATTCGGAGAC	1191	58.68
CATCGCACACATTCGGAGAC	733	58.68
CTCCAGTTGCTCTGATTGTTGA	496	56.68
CTCCAGTTGCTCTGATTGTTGA	533	56.68
AAGCCAGGTGGTGGAATACT	774	56.43
GCTCCATGAGTATGAACACTTGG	610	57.36
TAACTCAAGCAGTGATACATGAAGTTC	1110	58.89
TGGAGGAACAGGTGGAGGAA	733	59.06

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ATCTACGACGCTTACGCAATCTG	422	59.43
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AAGGAGGTGAAGAACAGTATTATGATGA	521	58.65
CGGTGGTCATCATCATGGAT	553	57.59
GATGCTCACACTGGCGATGC	871	61.35
AAGCAATGTTAGCATACACCGA	1157	56.19
AAGCAATGTTAGCATACACCGA	1106	56.19
GGTCAATCAGTGATCGGAAGTACA	303	59
GCCATGCTCAGCTTACAGAAAG	519	56.5
GTGTGTCCATCAATTCTGAATGCC	49	61.4
GTGTGTCCATCAATTCTGAATGCC	42	61.4
GTGGAATATCAACTCGGCTTCA	580	57.81
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TTGTGGCAGAAGAGGAGGCT	312	58.61
TTGTGGCAGAAGAGGAGGCT	431	58.61
GGATGTCTTCTCCTCACATACGTT	1016	57.35
AATCGTTGTGTTCAAGAGGAGAA	120	56.66
TTGGATGCTTGGCTTGGTTC	1502	59.64
CAGATGGAACATGCTTAGCGA	250	57.6
GCTTCTCTCTGAACATCAATACGA	1112	56.49
AAGTATTCTGGCCGGAGCCA	291	60.53
TCGGAAGTGATGAATGATACAAGA	234	57.38
CACGGAATCTGGAACAATCTACC	395	58.5
ATCTTCAACTTGCCGTCCGT	270	58.25
ATCCGCCAGACTTCAACAAC	42	56.3
ATTCCAGTGACTCCTCGCCAT	379	59.54
CCATCTTGTTTCATCGCGCTT	140	59.8
CCACAAGAAGAGCCACAGCAA	120	60
GGAGATTGTGATTGACTATGTGAGAC	235	56.94
TCCGTCCGATGTGTGATTAGC	73	59.54
GTCAGTCACGCAGGCAGCAG	56	61.73
TTCGGAGACTCCAGTTAAGGATC	377	57.53
TTCGGAGACTCCAGTTAAGGATC	272	57.53
CGCACAAGAGAGCACAGACA	492	57.28
CCAGAGTTCCAAGAGAGACTTACCT	111	57.42
CCAGAGTTCCAAGAGAGACTTACCT	194	57.42
ACAGCAGTTCCAAGAGAGACTTACCT	136	59.08
TGACTTGTACGATAATGTCATGGATG	143	58.84
GCAACGACAGAACTAATGCCA	531	57.51
CCTAGACATAATGCGACTATTCCAG	133	57.23

GCATCATTCCACAGTCAAGCA	368	58.31
CTGAGAGAAGAAGAAGCATGGAAG	829	57.62
TTCCAGAGTTGTCTAGTTATGTTCTTCA	709	57.83
TTGCTATGAAGAGTCCCTGAAGAGAAG	384	58.46
ATGTCTCCAACTTCAAGCCAGA	56	57.53
TCAGGCGTAATGATCTGTGCT	26	57.06
TACCAATTCCAGCCAGCGTT	446	59.17
CAGCAATTATAGACTGGTGGCA	1113	56.6
ACAATAACTTGGA CTGCTGTACACT	594	56.45
CCGTGCTGACGAGCATCCTA	30	60.9
TTATCTTGCGTTCCAGTAGGA	441	57.52
AGATATGCTGGAACACCTTCTCG	2227	58.41
AATCTTCAGTCTCGTTATGATGATGA	32	57.11
ATCTTCCGTCTATTCTTCAACTTCTC	101	56.63
GTCAGCATCGTTGGCAGTCA	194	59.41
GTCAGCATCGTTGGCAGTCA	341	59.41
GTCAGCATCGTTGGCAGTCA	342	59.41
GAATCCTGAATCGGTTGCCA	188	59.46
GTCAGCATCGTTGGCAGTCA	214	59.41
GTCAGCATCGTTGGCAGTCA	252	59.41
GTCAGCATCGTTGGCAGTCA	248	59.41
GTCAGCATCGTTGGCAGTCA	443	59.41
CGTCGGAGCAAGGAGAGAAC	166	58.61
GTCAGCATCGTTGGCAGTCA	342	59.41
GAATCCTGAATCGGTTGCCA	188	59.46
AACCACCAGAGTCAGAGCAACG	99	60.29
ACCATCTTGCTTCTTCTTGTGC	34	57.23
GCTACCATCTTGCTTCTTCTTGTGC	62	61.45
GCTACCATCTTGCTTCTTCTTGTGC	260	61.45
TGACCACCATTGTTCTGTTCTG	406	58.98
AATGTTGAGTTGATGAAGAAGTTGC	1594	57.6
AACATACGAATCTGACGACA ACTG	664	57.01
AACGCTAGGAGAAGATACTGCCA	557	58.24
AACGAACTGTTGGTCTTCGAA	58	56.08
TTGAGATAAGGATAAGTTGACAGGCT	58	57.74
TCTCCGATTGACTCCACCAA	1072	57.65
GGACACCACAATTAGCAGCCA	1684	59.57
GGACACCACAATTAGCAGCCA	1628	59.57
GGTCATACAGATTCTCTACATTCTCAA	1069	59.04
AAGGAACGCCAAGAAGATGA	124	56.08
TAGAGTGCA GTGAAGAATTATCGGAA	147	59.33
CGAATGAGTATACGGCTGGAA	685	56.52
TTGCATGTTGCTACACATTCCA	63	58.69
GCACACATTAGCGGCGACTT	638	59.86

TTCTATCGTCGCCAACACTACG	161	58.9
TCTTCTGATGACTGACAACACACC	578	57.83
AAGTGTTTCGGTGGAGTCGTTG	2314	58.7
GCTGTTCACCACGCTCAAGT	370	57.54
TTGTTCTCGCATAGTGAGGTC	248	57.93
AACTACACAAGAACATAACGAGCACA	187	58.08
AACTACACAAGAACATAACGAGCACA	127	58.08
TGATAATAACTCGCAGGACAATAGAC	100	56.84
ACCGCTCCATTAATCGAATTGAC	93	60.14
ATTCAGTCAGCATCGTCAAGCA	126	59.47
AATTCGAGAGGTGACACTGGATT	523	57.76
AAGTCGTGTTCAAGGCTATTCATTC	467	58.78
AACTCCAACAACATTCCAGGTG	109	57.56
GAAGGCGTTATTGCGGACCA	391	61.79
CGATGAGGAGAGCATGAAGG	795	57.01
CTTCCTCCTCCACCTCATCC	738	57.15
GTCAGTGCCACTTCAGACATTG	1092	56.91
ATCAGCAGCAACAGCCACAAG	1376	60.03
CGGCTCTGAATGGAAGTAC	1108	56.91
GCACAGGACAATTGTTATATTAATGAGG	163	59.19
ACGAGACGAGGTGAAGATGATG	990	57.87
ATGGAAGACGGCGTAGTTGG	52	58.66
TGTCCTTCTACTGCTCTTCTTCTC	96	56.47
TTAGGCAGTCGTTAATGCAGTACG	146	59.37
GCGTTATCTGAGCCGTCCT	58	56.64
TCCTTCTCATTCTTCATCTTCTCTCA	29	59.84
AAGTAGACTTGTCTTCGTCCTTCC	78	56.07
AAGATCGTGTTACGCACCGAAT	378	59.5
TACCTAACTTGCCTGCTTCCA	170	56.32
GCTCGCAGCATTCTCAATGAG	56	59.7
GGAGGACGAATTGCTGTGGT	108	58.59
GTTGGTGGCTGTTGAGGAGT	424	56.24
GCTTCTGGACTGTAATGGAAGTGA	194	58.44
GCGTTCTGGAATCGAAGCCT	217	60.3
GCGTTCTGGAATCGAAGCCT	183	60.3
CGACGGAGTTCAGACTGCTC	271	57.19
GTGCCTCAGCCGTTCTGCTT	953	61.29
CGGAAGTAATGGCGGTAGTG	1411	56.88
CAGAGATGTGGATCCAGTACAGAA	337	56.98
GCACACTATATTCCACCACACCA	451	58.37
GACATCATTAGAGGAGGACGGA	34	56.83
GCATATTACAGACACAACCTCTTCCTG	271	60.25
GAACGAGCCGATCTGACAATG	118	59.28
TCTCAAGGAGGACGAAGGAA	364	56.08

TCTCAAGGAGGACGAAGGAA	508	56.08
CAGAAGAAGCAATGATGGAAGCA	202	60.32
CTGCTCATATCGGACTTGCC	56	56.98
CGAACACTATGATGAAC TTGTTGAAC	812	57.89
TTGTCCAAGTGTACAGGTCAGTGAGA	72	60.91
ACTGTTGATGAAGCACTCTTATGTTG	821	60.08
GAATAGTTGTCATCCGCCTCA	23	56.37
GGCATTGGAGCAAGTAGCAG	44	57.2
GGCATTGGAGCAAGTAGCAG	52	57.2
CGTCATCCTCCTAGACATCCTG	680	57.36
CGTCATCCTCCTAGACATCCTG	694	57.36
TTGACAACAGCCACGCAAGC	550	61.89
TTGGATATCGATGGAAGAGTTGT	189	56.39
AGTGGCTGGTGTGATCTTGAGA	271	58.4
AGTGGCTGGTGTGATCTTGAGA	271	58.4
AGGAAGGATATAAGAAGGATGATGAG	902	56.4
TGTGAATGTAAGGAAGGATATAAGAAGG	894	58.28
CGACTACGGATAGAGATGATCTTGTGT	1020	59.91
GTCGCTGTTGTCTGTCACTACC	537	56.05
TGTGTCGTTGGAGGTTGATAAGTG	645	59.9
TAGAGAGAATGATGTTAGGAGGTGGT	255	57.55
TAGAGAGAATGATGTTAGGAGGTGGT	255	57.55
TTCGCAGAGCAATCATCAATGTATC	194	61.2
CTGGAATGAATCAAGCCGAT	627	56.29
ATTCTTGATGTGCCGTGAT	557	56.51
ATCATTGTCCTCGCTGTCACC	555	58.6
CAGTCCTGTATGACACATTGCACA	84	59.55
TTGACACTGCTCTTGCCATCT	463	57.15
ATGACGGCTGTGAGACTGTTC	627	56.41
TGTAGTGTTGCAGGAATGCG	431	56.97
ACCGACTATTCTGTTATTCACTATTCTG	68	56.57
AATGTTCTTGTGAAGATGTATGAGGA	1038	57.03
AGTAACATTGGCGTTAATATCTAATCTG	555	56.6
GAATTGAACGATTCTCGTACCG	89	57.38
GAATTGAACGATTCTCGTACCG	112	57.38
TTGTTATCAGTTGGCTTAGCAGTTG	691	58.6
GCAACACTCACACATCATCACA	105	56.58
GCAACACTCACACATCATCACA	105	56.58
GCAACACTCACACATCATCACA	105	56.58
TTATGTTATCCACAGAGACCACTCGTTA	2221	60.13
TTATGTTATCCACAGAGACCACTCGTTA	2200	60.13
CGTCTCACTCAACGATTTCCTC	1012	56.03
CGTCTCACTCAACGATTTCCTC	1058	56.03
CGTCTCACTCAACGATTTCCTC	954	56.03

CGTCTCACTCAACGATTCTC	1088	56.03
CGTCTCACTCAACGATTCTC	1058	56.03
CTCGTCGAATAGTACACTCCGAT	239	56.25
CTCGTCGAATAGTACACTCCGAT	281	56.25
CTCGTCGAATAGTACACTCCGAT	238	56.25
CTCGTCGAATAGTACACTCCGAT	239	56.25
CTCGTCGAATAGTACACTCCGAT	281	56.25
GACTTGGAATTGGCTCGGTA	125	56.36
GAACTCTCAGTCTTCATTGGAGGATA	211	58.05
GAACTCTCAGTCTTCATTGGAGGATA	211	58.05
TTCAATTCAATATGTTCCGAAG	41	57.82
GATAAGGATGTTGTTGGAACATTGG	250	58.03
AATCAGCACTACCACTCCACCA	339	58.19
GATTCACTGAGGATCAGCTCAAG	213	56.78
GAATACTAGTCCAGAAGTACCATTGATG	1708	56.79
CGAATATTCAATCATCACCAACGA	152	58.43
AATAGATGAGCCTTGATGGTTGG	55	58.15
AACACACCTGGCTCCGTAAGTAC	67	61.28
GATTATCGTTATGAAGATGATGTCGT	92	56.53
TGCTCATTCTTATCTTGCTCACTG	1569	57.48
GGCGTCACTGAATTATCCACTATC	101	57.75
GAGACTCCGATCACTGTCCTACTC	1353	57.15
ACGACATCTTAATGGATGCTCAT	594	56.41
CGTGACTCTCTCGTGTATGATGG	751	58.34
TTAGGAAGTGTTAATGAAGTCAGTTACC	1159	56.6
GATGCCTACCGTTCTCTACATATTCCTT	819	61.05
AACTAATAACCACACCGCTGAAG	446	56.29
AACTAATAACCACACCGCTGAAG	574	56.29
TGGCGACACGAACATTGAGA	159	59.81
CCGATGCTTGTGTTGGTGTGT	238	58.07
AACCGTACAAGGAGTTACATTGATG	714	57.33
TGATTGTCACTCAGTCTCTCGGT	912	57.52
TTGTACTCCTCTCATCATATCTTCACTT	3365	56.93
AAGGTGGTCAAGAGTATCGGAGA	627	57.9
TTCCATGCAGACAAGCACAT	139	56.27
CACTGACAACTGCTATGATGACG	157	57.06
TTGCATTCTCAACGGTTGGA	560	58.69
TCACGCTTCTTGAACACTCTGG	254	59.11
CGAACATGCACATCACCAAG	216	57.12
TTGGATAACGGATTATGGAGGAA	106	58.37
CTTCCGGCAGATGTTATCAATG	127	58.2
ACCATCAATGCTTCATCGGACA	495	61.2
AACCGCATCTTCATATAACCAAG	216	56.14
TGAAGGAGACTGGATTACCA	256	56.74

AACGTTCTGGTACAATGGCGTT	53	59.41
TTATTGTGAGCAGCTATAAGCAAGC	965	58.09
AAGGATTGGTCGCTCGTGTC	390	58.74
AAGGATTGGTCGCTCGTGTC	408	58.74
CGATTCCAAGATATACCACTCTCA	641	59.37
TATCGTCATCACATTCTCTTCC	953	56.8
ACAGCCACAGCAAGTTCAAGA	299	57.21
AATTGATGAACTAGCTGAAGATGAGAA	739	57.85
TTCCTCAAGCAAGCCAGCAT	80	59.54
TTCCGAGATGCGATTAGTGTTCC	2481	61.22
AGTACCTGTTACATGCCAGCA	1429	59.26
GCACTTGGAGTTCTCTGCTATGG	92	59.03
CCACGAGGTGTTATCCACCA	70	57.86
GTGGAGGAGGAGTGAACA	73	57.82
ATTGTCTATTCCATTCCAGCCA	1496	57.18
ATTGTCTATTCCATTCCAGCCA	1550	57.18
ATTGTCTATTCCATTCCAGCCA	1597	57.18
CACAATCAGTGAGCACAGTGGACT	107	60.22
ATGTCGGAATCACGGAAGTACT	178	56.35
GCACAGAACCACCACAACACTACATC	57	59.44
GCACAGAACCACCACAACACTACATC	57	59.44
GCACAGAACCACCACAACACTACATC	57	59.44
GTTGAGTGCGATCCACAAGG	167	57.74
GTTGAGTGCGATCCACAAGG	1650	57.74
CACGCAATCCAGTTACAACCTCT	27	59.18
CACGAATCGTTGATGGTGTG	490	56.96
GGCTGCCTCTCACTGCCATC	245	61.83
TGCTCACCTACGACCAATCTG	83	57.43
TTGTGTCATCGAGTTGTTAGACAA	72	56.17
GAGGTATTGTCCGATGATGATGA	483	57.48
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AGAGCAGAATCAGAGAACGCAGT	2993	58.44
CATTGATGTATCTGTATAGAGCGACA	1179	56.37
GGACTTGCCTATTCAATGCCT	634	56.94
CTATTGGCACTAAGATTCGCTCA	377	57.39
GGAAGCCTTGTCTCGATTAATTGCT	846	61.85
TTGGAAGACGATGAGGATGG	1275	57.11
TTGGAAGACGATGAGGATGG	1291	57.11
AAGGACGGAGGAGAACCATCG	345	61.28
AAGGACGGAGGAGAACCATCG	406	61.28
TGCTGCTCAACCATCTGCTG	161	59.71
CACCACCACAGACTCGCTT	60	59.73
TGTAGCAATGGAACAGGAGGA	663	56.88
TCGGAATTGGTGGAGGAGGA	825	61.51

TCGGA	246	61.51
TTGGAGG	86	57.96
TTGAGG	199	56.02
TTGGAGG	631	58.21
TTGGAGG	1170	58.23
TTGGAGG	1292	56.7
TTGGAGG	1198	56.7
TTGGAGG	332	58.38
TTGGAGG	1372	58.81
TTGGAGG	575	56.59
TTGGAGG	1137	57.15
TTGGAGG	138	56.8
TTGGAGG	230	56.74
TTGGAGG	111	57.45
TTGGAGG	129	58.05
TTGGAGG	300	59.68
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TTGGAGG	1410	57.19
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TTGGAGG	870	57.19
TTGGAGG	270	59.6
TTGGAGG	1127	57.07
TTGGAGG	75	56.02
TTGGAGG	418	56.29
TTGGAGG	106	58.86
TTGGAGG	427	58.69
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TTGGAGG	72	60.19
TTGGAGG	320	56.16
TTGGAGG	327	56.16
TTGGAGG	169	59.77
TTGGAGG	359	56.53
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TTGGAGG	141	59.15
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TTGGAGG	53	62
TTGGAGG	61	58.81
TTGGAGG	52	56.27
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TTGGAGG	621	60.96
TTGGAGG	966	60.86
TTGGAGG	338	58.14
TTGGAGG	182	58.18
TTGGAGG	1606	57.25

GAATGTCAGGAATCAGTCACCAG	1563	57.25
GAATGTCAGGAATCAGTCACCAG	1930	57.25
ATGCTACATCGTAGATCAAGAACACTA	149	56.58
AGTGAGATACGAGTTGCCGAGT	59	56.74
TCTGCTTCAAGTCCTTCTATTAATG TTC	179	58.59
TGTAAGACGAAGAGACGCCAGA	54	58.73
GAGGAAGAGAAGATAGTTGATTGGA	65	56.05
CGGTGGAAGAAGGAGAAGAAG	91	56.76
AACAATCAGAGAGACACTTGACAGTT	777	56.46
AATGTGGAGTGATGTTGATGAAGT	949	56.26
TTCAAGCAATCAGTTGAGCGA	1163	58.24
CATGTTGATCCGTATCATCGTG	1006	57.44
GATGCCGCTTCTTGAGTTC	1079	58.47
ACAATGGTGGTGGTGGAGGA	658	59.64
ATTATTGATTACTGTACTGTGGAGGCA	519	58.23
ATTATTGATTACTGTACTGTGGAGGCA	324	58.23
TGGAGCCACATTGGTAACTGT	206	56.66
AGATCCGTCGTCTGCGAGATG	352	61.27
GGTGTAGCATTCTTAATGGCAAC	42	56.58
AATATATGAACTGTTGCCAGAGTCC	459	56.61
GCAGCTCAAGACCGAGGATG	1276	59.53
GGTACTCGCTAATTCTGATGTTCC	287	58.33
TTCAACTCAAGACCAGCTTATTCTAAC	437	57.52
TTATTGGACGAGAGCCTTCAGA	5573	57.69
AATGGAGAGTGATGACAATGGC	1606	57.59
AATGGAGAGTGATGACAATGGC	1606	57.59
GCAATGGAGAGACGCAGAAC	239	57.07
GGCATGAGTGTAGAGATGAGCA	284	56.64
GCAATGGAGAGACGCAGAAC	256	57.07
TGGCTGCCGTTAATCAGAGAT	156	58.41
CAGAGAATGTTGCGGAAGGA	410	57.48
GAGGATGAGGCTAACAGAGTATTCG	517	58.53
TCCACAAGAAAGTAGAACATCAAGAGT	1465	56.51
TGTAGGTGGTGTGATGTGTATGG	92	56.88
TGTAGGTGGTGTGATGTGTATGG	189	56.88
CCGTCGTCCACCATACATTC	944	57.32
CAGCTATGCATTGGATTGATGA	839	57.35
TGAAGGAGAGAAGCGGTGGT	1134	58.47
TGAAGGAGAGAAGCGGTGGT	1190	58.47
GGTGGAGAACGACAGATGAGG	365	58.18
GGTGGAGAACGACAGATGAGG	382	58.18
AATGGCCACATAGGTAATTCAATC	45	57.12
CTCCTTCTCTTCTTCGTCTTCCT	57	56.28
CCATTCTCTCTAGTGTCACACTGGAA	82	59.69

GCTGCGGATATGGCTGTTCT	722	58.9
GGCTGTTCTTGAGCTTCTGG	22	56.33
TTCAATCTGCACCTGATTACAAGA	482	57.57
CCAACACTACACAGAATGATGACTT	105	56.09
CCAACACTACACAGAATGATGACTT	432	56.09
TGAAGGACAACGGACGGAGA	169	60.19
TGAAGGACAACGGACGGAGA	169	60.19
AATGGTACGATAGACGAGAAGGAA	403	57.11
AAGATTCAGGATAGGTTTCAGCAGA	178	57.27
CGACAACTGAGAAGAGCCGAA	62	59.19
CGACAACTGAGAAGAGCCGAA	62	59.19
TTGGCTGATAGTTCTGATATTCTGG	1271	57.59
TTGGCTGATAGTTCTGATATTCTGG	1271	57.59
TCAATGAACAGAGCGATAGGAA	413	56.24
AAGTGTCGGAAGGACAATCG	432	56.3
GCAACTCGACGTAGCACCAG	448	58.13
TTCATCAATGCACGAAGAAGTTG	477	58.86
CGTTATTGAGAAGATTAACTCCAC	2622	56.42
GGACTGCTAATCTACCTCTTATCACTC	1426	56.31
TTGTGACGGACAACCTCATGG	77	56.49
TGTTGTTTCAGCAGTGTCTTGTCT	1254	56.27
TGTTGTTTCAGCAGTGTCTTGTCT	1254	56.27
CGCTCAGGACCATCAGTCATTG	434	61.52
CACTTGTTGGTATGACTCCGATT	508	56.8
CACTTGTTGGTATGACTCCGATT	194	56.8
CACTTGTTGGTATGACTCCGATT	247	56.8
GCACAAGTTCAAGTTCTCCACCA	1078	60.14
CATCGTGTGATCTCTCACTTATACC	782	57.06
CGTCTGCGGTACTTGATGTC	50	57.21
CCAGTCATCCACAGTCCACCA	249	60.39
CCAGTCATCCACAGTCCACCA	45	60.39
AATCGTTGTTTCGGAGAGCAG	663	56.62
CCAGTCATCCACAGTCCACCA	467	60.39
AATGTTCAATGGCTAGTCATCTTCC	1063	58.62
AATGTTCAATGGCTAGTCATCTTCC	1098	58.62
GCATTCTTAACGCTTATGGCTAA	776	56.64
GCATTCTTAACGCTTATGGCTAA	659	56.64
GGCTACCTGGATTGTCGGAA	123	58.58
AATGTCAGAGAACACTTCAAGATTGC	736	58.9
AACTGGCTGAATGGTCGATC	603	56.23
AAGATCAGAGATCACTGGTGCTG	225	57.16
GACAAGAATCGAGCTTCAAGTTC	327	56.07
GGACCGCTGGATGGACAAGT	221	60.86
TATATGTTCAACAGCCTTATTCTCTG	92	56.85

AATGTCCGAGAGCACAGCGA	694	60.51
CCTTCGTTCACTTGGAGCAG	297	57.14
GGTCACTTGTTGGATCATATTATCG	230	57.57
GCACGAAGAAGATCCAATGG	163	56.8
GCACGAAGAAGATCCAATGG	243	56.8
TTGGCAGGATTGGAATCTATCG	274	59.87
TTGTGAATGGATACCTTGGAGTT	112	56.31
CTGCTGTGTATTATATTCACGCTGT	719	56.44
CTGGAAGAAGGTTGATGAGCA	1648	56.6
CTGGAAGAAGGTTGATGAGCA	1646	56.6
ATCCGAACGATCCGTTGTGG	639	61.59
GTTCTGTGGTTCACAACGTGGAT	244	59.77
GGTTGAAGTTAGCGGACGGT	127	57.79
ATCGACGACGACAACGGAGA	72	60.23
AACGAACTGTAGCGGTGCCT	67	58.47
CCGCCAGATGACTGTACACA	49	56.69
CGGTGAACAATTGATGGCGTT	413	61.57
GACAGGTGCCGACCTTATGC	62	59.15
TTACTGCTGGCGGAACTCTT	607	56.34
GAGCAATCTTCTCCTGAACTTATGG	616	58.51
CACTTGAAGCAGCCTTGATGA	4940	57.7
CACTTGAAGCAGCCTTGATGA	4953	57.7
CACTTGAAGCAGCCTTGATGA	4982	57.7
CAAGACCAAGAATCGGCACA	868	58.3
CAAGACCAAGAATCGGCACA	881	58.3
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CACTTGAAGCAGCCTTGATGA	1902	57.7
CACTTGAAGCAGCCTTGATGA	1931	57.7
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CACTTGAAGCAGCCTTGATGA	4995	57.7
CACTTGAAGCAGCCTTGATGA	5024	57.7
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CAAGACCAAGAATCGGCACA	881	58.3
CAAGACCAAGAATCGGCACA	910	58.3
GATTCCAGAAGTGCCTCACAA	343	56.44
GATTCCAGAAGTGCCTCACAA	247	56.44
GATTCCAGAAGTGCCTCACAA	115	56.44
GATTCCAGAAGTGCCTCACAA	124	56.44
GCGGATTATATGGCAATTATGG	190	57.11
CAACTAAGAGACATCACGCACAC	452	56.2
CAACTAAGAGACATCACGCACAC	296	56.2
CCGCAAGAAGAGATTGAAGC	38	56.39
GCCAAGATACTCCACAGTTCGG	717	59.59

TCCACTTCAACAAGCACGGA	794	58.85
TCCACTTCAACAAGCACGGA	794	58.85
TCCACTTCAACAAGCACGGA	852	58.85
GCTACTACGCCGTTATCATGTACC	75	57.9
TGGCTGTCTTATCATTGGTTGTAC	851	58.19
GCACGCACGTACCAGAACATG	310	61.1
ATGCCTGGAGAGAGCGGTTG	61	61.25
ATGCCTGGAGAGAGCGGTTG	61	61.25
GCATCAACGGAGAATGTACGAAT	4725	59
CGCTCTCGCTATCGTTATGGT	105	58.12
ACTATACCATTATTGCTCAACATCTCCT	188	57.89
GAACCTGTGAACCAGTTGCTG	58	56.9
CGGATGTGCAGACGTTACTTG	206	57.91
TTGGATTGGTGGAGAACGAG	472	57.17
CGGTGGTTCTTGCTATGAAGTCA	296	60.11
CCTGGAATAACTATGGTGTCTGG	603	56.34
GAATTGCATCACTGGATGAGG	574	56.66
CAGTGTGTTCGCATTATTATGTGAG	212	57.49
TGCTGGTACAACAATAACTGTTACAC	262	56.28
GTTACTGTCGTCGAATCGGATAG	242	56.62
AATGCCGTTCCAGAACAAATATGATAAGC	837	61.47
ATTCAGAAAGCATTGAACTCACTCAA	46	58.14
ATGTCACTGTAACCTTAACCTCAACC	50	57.75
ACTTGTTCCCTTCATTGCCGTA	196	56.02
GTACGGAGATGACGTGACGAT	1923	56.18
GTACGGAGATGACGTGACGAT	329	56.18
GTACGGAGATGACGTGACGAT	1643	56.18
TGCAAGAATTGAGTACCTGACG	132	56.67
CCAGGAAGGCTGTGTGTAATTAGAGA	86	60.77
GCGGTACAGTGAATTGAAGAGG	159	57.49
ACTCAAGAATATAGTGCCACTGATACG	96	58.03
TGCTACTGATGAAGCATCACGTT	99	58.53
TTGGAAGGTGTCATATTACTAGGTTAGG	56	58.23
GGAACGTGATGCTTCATCAGTAG	187	57.5
AATGCATGAGCGTGAGCTAAC	69	56.76
TCAATTAGTCACACCACACCGT	27	56.59
GCGATAATCTTCAGAAATGCGTTG	1391	59.71
GCGATAATCTTCAGAAATGCGTTG	1298	59.71
GCGATAATCTTCAGAAATGCGTTG	1437	59.71
TTGGATCGAGTTGGTTAACAAGA	684	57.42
CCGATCTTGCCTTATATTATCTGTT	1253	56.02
GAACGTTGTACTCGCGGTAGA	88	56.68
CGATTCCACGACCTACAACAC	298	56.66
TGTCAACCGAACTGCTCAAGA	1332	58.09

TGGTATGGTAACTTGATTCTCCTGCT	1069	59.4
TGTCAACCGAACTGCTCAAGA	1580	58.09
TGTCAACCGAACTGCTCAAGA	1307	58.09
TTGAAGGTGAACGTTGTAATGACG	94	59.9
ATCATTGTTGCTGGTCTTATCGC	38	59.13
ATCATTGTTGCTGGTCTTATCGC	143	59.13
GCAACTATGACTTCACAGACTTACCA	92	57.68
GCAACTATGACTTCACAGACTTACCA	92	57.68
TCTGGATCAGACTGATTCTTACATG	96	56.22
TTGCTCATCTTGTGAGCTATTCTGC	185	60.81
ACGTCTAGCTCTCCAATGACCGA	1781	61.07
GGACTCTTGTTGCCCTTCGGA	464	58.85
ATCTTCATCACGACAACAATCTTCC	120	59.38
CGCTCAACTCCAGAAGACAGG	165	58.67
GAACTATATGCAACTTGCTCCAACA	261	57.57
GCTGTTGGTGAGGATGGAGA	152	57.23
GCTGTTGGTGAGGATGGAGA	152	57.23
GTTCTATCCGAACTTAATGATCTTGTAC	439	56.16
AACTTAACGGTCTTGACCTGGTCT	464	57.53
TTGCTTCAACGGAACAGAGAA	544	57.22
TTGTCTTATGGCAACTGGAGTCT	115	56.69
CCGACGAGAAGTCAATCAAGTACG	48	60.94
CAGGAGCACCAGGAGAGGCT	784	60.49
AATCATCGGTTACATTAAGTTACC	104	56.45
GCCTACGCTGGACAAGACTTC	135	57.69
GACAGGATTATCCGAGGAGAA	129	56.05
TCGAATCGCAGAACTTCTTGT	284	56.32
CCGATCTACTACCAGCCACCA	400	58.67
CCGATCTACTACCAGCCACCA	400	58.67
CGCAATTCTGAATGTTCCGA	104	58.3
TGGAGGCTATGGATCAGGCT	96	58.3
TGGTATGGCTGCTGCTTCTC	412	57.66
CCAGCCAGAAGATGGATCAAC	452	58.19
ATTGTCTGTCATCACTGCTGCGT	261	60.7
GATATGATGACGTGGCTATTATGG	116	56.34
TGCACCAGGAGTTATTGTTGC	414	57.36
AAGGAAGCCGTTACAAGAGAGACA	3671	59.44
AAGGAAGCCGTTACAAGAGAGACA	3671	59.44
GCGGAACCATTCGGAGAAGT	70	60.03
CACGCAATTAGAGGTGCTCAA	86	57.66
ATTATGCTGGATCTACCGTGTC	326	57.28
AATGGAGATGGAAGAATTACAAGACA	87	58.2
AAGTCTGAAGCATCCGAGGAAT	110	57.97
AGGCTCTTGTCGAGTTGCTCTA	1074	61.46

TGACTTGAATCATCCGAAGAACT	90	56.6
TACTGGTCCGAGATGTGCGA	3751	58.83
CAGAGACTATCGTTAGAGCAACTCCTTA	799	58.83
CAGAGACTATCGTTAGAGCAACTCCTTA	806	58.83
CAGAGACTATCGTTAGAGCAACTCCTTA	673	58.83
CAGAGACTATCGTTAGAGCAACTCCTTA	799	58.83
CCTAATGTGCTTCTGATGCTCCT	413	58.54
AATGAATAGAACCGTGGTAGGC	35	56.01
GGTGAAGGACTCACACAATGATG	75	58.03
AACTGAGAAGATGAAGACCTAGCG	89	57.11
AGGTAAAGGATTATCCACCGGAA	43	58.77
CCAATTATTCAGCAGGAGACCT	50	56.15
TTGTGTAGTGGATGACGAGTTAGC	770	57.15
TTGTGTAGTGGATGACGAGTTAGC	704	57.15
AACCGCTATCGCTCGTGAGA	78	59.57
CAACAGCATTAAACACGGCATC	49	57.78
GGAGGAGTCTACACAGGATTCGG	642	59.95
CCACCAGGTGCATTCGAGAA	440	60.6
GACGATGAAGAAGCGGCATACAG	57	61.87
GAGATTCCAGTGCTATACTTACGGTT	174	57.27
TTCAGGATTGTGTGGCTCAGT	412	56.83
CAACTTCAAGCCGGATACCA	126	57.29
GATCAACAGCTCTCACCAACTCTAAG	758	58.69
GCTCCATCATTCTTGCTTC	332	56
CCTTCACCGTCTTCCAGCAA	46	59.81
AACAGTTCTTCAATCCTTCACGTAT	75	56.3
AATCTATGGAGACTGTGATCCGTTA	65	56.99
TTGTCCAACCTCACACACACAGC	410	58.27
TTGTCCAACCTCACACACACAGC	294	58.27
TTGTCCAACCTCACACACACAGC	393	58.27
TTGTCCAACCTCACACACACAGC	394	58.27
GGTGCCAAGATGGAGAGAGA	97	56.39
AATCTGAGTTGCATTGTTGAA	28	56.15
AATCACTGGTGTTGCCGCAT	470	61.24
AGTTCCATGTACAGCGCGAT	56	61.55
GGCTGAGAAGTCAAGCGTGA	191	57.76
GGCTCCAGGAGCTCTTCCAA	46	60.42
TCATCGTCTCCACCACCATCA	61	60.89
AAGAGCTCTGAAGTGCACGGAA	94	60.14
TCTCTGACGATGTGCCGAT	99	60.34
AAGGAGATGATGATGAAGGAGACG	363	59.57
GAATACGACGAACTGCTTGCC	811	58.46
GAATACGACGAACTGCTTGCC	846	58.46
CTCGACGCCAGGAGTACAGA	3048	57.64

CTCGACGCCAGGAGTACAGA	2834	57.64
CTCGACGCCAGGAGTACAGA	1673	57.64
TTCGCCATTTCGCATCTCTGA	1312	61.36
CAGTGGACTCGATCTAACTGGAGA	591	58.53
CAGTGGACTCGATCTAACTGGAGA	616	58.53
AAGCCTCTGTGAACTTGTAGCC	1064	56.44
AAGGTGTGCCAGGAGCGAAG	620	61.27
AACTGAGACGGCAGGTTCTGAG	312	59.51
ATGGAGGATGTAGAGGACAACGA	67	58.59
AGCCTCACAACAACACCACTC	658	56.32
CCAAGGCTCCAGTCAACTACAATG	478	60.82
GGATGTCTGCTCAGTATTCAATCG	607	58.77
TCATCTGAATCGCCACCAAT	484	57.54
TTATTGAGAATGTCGGTGCTCGA	95	60.55
GGTGCGATGAAGGAGGACAA	242	59.63
AGATTAATGAGGAATCTCTGAACTCC	209	56.45
TGCAGTTAGTGATAGGAATTCGATG	599	58.39
TTCTTGTTTCGAGTGCTTGTTG	237	59
TTGAGAAGAGATGTGAGCAGTTGG	610	59.52
CTTCCTGTACTGCGATGCTGA	160	57.73
TTCTTCTACATTGGAGAATATGTGTTG	747	56.76
GAACAGAGTCGGAACGGTCA	153	57.29
CAAGTGAGAATGGAATGTGGAA	1030	56.27
CAGAACGACACCGACCACCA	1574	61.53
CAAGTGAGAATGGAATGTGGAA	1044	56.27
CAGAACGACACCGACCACCA	1030	61.53
CAAGTGAGAATGGAATGTGGAA	887	56.27
CAAGTGAGAATGGAATGTGGAA	1044	56.27
GCTCGTCGTCGCTTCTACAG	368	57.47
GCTCGTCGTCGCTTCTACAG	368	57.47
GTA CTGCTCTTCTATCCGTGTGATC	605	57.22
GCTCGTCGTCGCTTCTACAG	368	57.47
GTA CTGCTCTTCTATCCGTGTGATC	206	57.22
GTA CTGCTCTTCTATCCGTGTGATC	206	57.22
CGTGTTCC TAAGCCATCTACCA	1377	57.88
TTATCATTGAACTTCCAACGAGTTAC	47	56.75
ATTAGTTCCACCTGAAGCAGCGA	1365	61.03
ACCGTCAACATCACTCAACTTCC	1046	59
ACCGTCAACATCACTCAACTTCC	1132	59
CCTCACCGCTCTCAACAACG	22	60.39
TTGGTTGACTGGTGTGATGG	242	57.91
GCAATGTCCAACATATTGTGAAGT	197	56.77
CATATTCAGGATCTCCAGCTCAAC	549	57.92
TGCAGATACGGTATTCAGCATT	475	56.12

TCTGCTAGAATGAAGAAGAAGAATTGGT	70	60.09
CTCAACCTCAGCCACCTCAA	330	57.45
CTCAACCTCAGCCACCTCAA	330	57.45
CTCAACCTCAGCCACCTCAA	330	57.45
GAAGAACATAATATCGAATGCGTCA	69	58.27
TCGTGGTCGTCTTGATGTGG	441	59.1
TCGTGGTCGTCTTGATGTGG	452	59.1
GTTCAATCCTGCTACGCTCAC	704	56.19
GATAACCAGCAGGCGAAGAC	296	56.11
GATAACCAGCAGGCGAAGAC	352	56.11
ACTCTTGACAATCGGAGTACTTCC	598	56.7
ACTCTTGACAATCGGAGTACTTCC	598	56.7
CTGAAGATGAGGCTGAGTCGGA	358	60.47
CACACCTTCAGTACATTGGCAT	793	56.24
ACCTGAACAACCTCCGCCGAA	235	61.5
AACCTCTCATTGGACACTGGAT	505	56.2
AACCTCTCATTGGACACTGGAT	505	56.2
TTAGATTAGGTCAGATTGAAGTGAACA	48	56.54
GGCAACCAGTCGCTCAACTAAC	443	59.77
GCGGACGTTGTTAGGAGAC	53	58.4
AGGTTAATCGGAACAGATGAAGACG	99	60.63
TTCACAGAGACTTGGCACGA	160	56.52
CGAATTGAGAGACGATTCAGC	57	56.25
ACGACGTGGTCACAAGAGATAGG	99	59.16
AACCATCACAGCACGACCAC	250	58.01
CAACGACAGTGCAATGGAGA	2596	56.82
CAACGACAGTGCAATGGAGA	2600	56.82
TGAGCCAGTGGTCAAGTATATCG	252	57.9
CATTACCGAGCAAGGAGCAAGT	634	59.39
CATTACCGAGCAAGGAGCAAGT	684	59.39
ATGGTGGTCACTCGTCTCCTAA	76	57.26
CACAGTGATCCTGATGTCCGAAG	279	60.49
GGATCTTCAACACGGAATTGC	210	58.24
CCACCACCAACTGATGAGGAG	676	59
ATGTTGTCTCGTCTTGCTCGTG	46	59
ATGTTGTCTCGTCTTGCTCGTG	85	59
ATGTTGTCTCGTCTTGCTCGTG	97	59
ATGTTGTCTCGTCTTGCTCGTG	46	59
ACTACCTGGCTCGCAATAATCC	1016	58.29
GAACCGTCAGGATGTGCGTA	1038	58.17
GAACCGTCAGGATGTGCGTA	993	58.17
GACTTCCGCACATTCATCTCA	767	57.34
GACTTCCGCACATTCATCTCA	852	57.34
ACCGTCATTCTGTACTTCCTGATC	32	57.35

GACTTCCGCACATTCATCTCA	84	57.34
ACTTATCAGTGTTGCTCTTCTTATCACA	482	57.85
ACAGAAGAAGGTGGTGGAGGCA	992	61.86
ACAGAAGAAGGTGGTGGAGGCA	970	61.86
ACAGAAGAAGGTGGTGGAGGCA	877	61.86
TTACCGCTCACGCATTCTGG	416	60.73
TTACCGCTCACGCATTCTGG	416	60.73
AAGGTGGTAAGATGCTGTGCTG	883	58.01
TTGCGGTATAGCATTGGATAGG	387	57.8
ATTGAACAACCGACTGTTGAGCCT	131	61.97
ATTACAACGAACGCCATAGAAGA	404	56.72
CCGAGCGAATCAGTAGTTGG	444	57.05
CTCAACAACAACAGACACCGCAT	1088	60.93
TATTGTTATTGTGCTCGGTATCAGTT	159	57.12
CGACGAATCAACTGACGCAT	1167	58.32
GTTGCTGAAGAGGAGACTAATCG	158	56.11
GCGATTACCGAACGACTACG	521	57.02
ACATCTCATATCTTGTTGCTGCCA	918	59.63
ACATCTCATATCTTGTTGCTGCCA	892	59.63
CCTTCTCTTCTGTTCACTGTTCT	59	56.91
ATGGTGCAACGAGTTGTGGT	27	57.51
CTCGTAGAGAATATATGGCTATTGTCA	280	56.23
ACCAGGCGGACAACAGAATG	88	59.55
ACTCTGCTCGTTCAATGCGT	68	57.16
GGCACAGATGTCACAGAAGAGG	83	58.4
TGTTTCATGGTCACAGATGTCATC	76	56.96
AGTATCTGCTTGCTTCCTTGCT	35	56.26
AGATCCAGTGGTTCAGAAAGATG	663	58.2
CATCCGAGCCAATATCGCTAGTAAC	640	61.02
CATCCGAGCCAATATCGCTAGTAAC	682	61.02
ATAATGACGAGGATTCAATGGAA	333	56.3
ATAATGACGAGGATTCAATGGAA	333	56.3
CAGTGTTGACGATGAAGAAGGC	463	58.45
CAGTGTTGACGATGAAGAAGGC	524	58.45
CAGTGTTGACGATGAAGAAGGC	355	58.45
CCGTTCCCTATTCTGCTCAA	32	57.48
CCAGTGTTGACGATGAAGAAGC	284	58.45
GAGGAAGCGTGCTCACACAT	204	57.48
CCTCTGGTTGTCTTGGCTCA	50	57.45
TTCGATGAGCATTACATTCCAG	94	56.51
GCTCAATACTGACGCTCTTGG	50	56.35
TTACAACGTTATGCCAACTTATGAG	732	56.39
ATGGCAGATTACGATTACGAT	312	57.21
AATTGGACTCGATAATGCACTGGA	220	60.63

CCAACAGCTTGAATGACCTCA	145	57.4
AAGCTGCTGCACAGACGGAT	741	59.6
AAGCTGCTGCACAGACGGAT	637	59.6
CTCTCACAAGCTCAACATCATGG	23	58.46
AAGTGATGGCTGGTGTGCGA	594	61.22
AAGTGATGGCTGGTGTGCGA	852	61.22
TTGATCCGATTGATGGAACTACT	306	56.39
TTGATCCGATTGATGGAACTACT	564	56.39
AACGAAGTTATCGAAGTCTGGAGA	377	57.32
CAACTGACATTGTGGCTCAACA	659	58.28
CAACTGACATTGTGGCTCAACA	650	58.28
CAACTGACATTGTGGCTCAACA	736	58.28
TGTAGGCAGGATGTGGAACG	1352	58.17
TGTAGGCAGGATGTGGAACG	1352	58.17
GGTCCGACTTGCAATTCATATGG	79	61.32
AATATCTCATTCTGGCTTCATCG	188	56.99
CAAGTAAGAGTGGAGCAGAATGTG	617	56.9
CAAGTAAGAGTGGAGCAGAATGTG	531	56.9
AATGTCCTCGTATGGAGCTATTGGT	120	60.08
AATGTCCTCGTATGGAGCTATTGGT	120	60.08
AATGTCCTCGTATGGAGCTATTGGT	87	60.08
AATGTCCTCGTATGGAGCTATTGGT	109	60.08
ATTCAGAGACCTCATATCAGGCATT	617	58.25
ATTCAGAGACCTCATATCAGGCATT	364	58.25
ATTCAGAGACCTCATATCAGGCATT	391	58.25
ATTCAGAGACCTCATATCAGGCATT	364	58.25
ATTCAGAGACCTCATATCAGGCATT	391	58.25
ATTGACGGCACAAGCACGAG	706	60.8
ACCATATTATCCACAACAACCACA	157	56.88
ACCATATTATCCACAACAACCACA	143	56.88
CTACAGCAACCACCACCACAAC	78	59.02
CGAGCCAATGAGGAGAAGAAC	132	57.61
TCATCATATCAATGACTGGACGTT	27	57.12
TGAATAGAGCATCAATGAATAGAAGAAG	273	57.51
CGATAAGAGAGCGTGCGAGAC	48	58.83
AGTGAGTTGGTGCGTTGCGT	72	60.33
CTCATCGTCGGTCAGTCAGTT	98	56.42
GGAAGAGACAGAAGCCAGCGA	2144	60.6
GGAAGAGACAGAAGCCAGCGA	2217	60.6
GGAAGAGACAGAAGCCAGCGA	2229	60.6
CTCTCTGATCCACACACTCTCTCA	68	57.26
TTGTTACTGTCGCGATATGTATCGT	61	58.68
CGTCTCGCAGTCTGCAACTC	54	58.35
CGGAAGAGGCTGGTTGTCTC	300	58.47

GCAGGAGGAGCAAGTACGGA	616	59.02
CCAACCTCTTCCAACATATCGACACA	163	61.04
TTCAACGAGACATGAGTACTTGCA	76	58.56
GACAATATGAGGCGGTGTGG	88	57.48
GAAGCCTCCACGAAGTCCAT	1660	57.79
GTTGATGTAGCAACAACATAATGGATA	1193	58.58
GTTGATGTAGCAACAACATAATGGATA	1041	58.58
GTTGATGTAGCAACAACATAATGGATA	1122	58.58
ATGCCTCCATACATGATTCTGT	1284	58.34
AATACGGATGTGATGGATGCA	254	57.37
AATACGGATGTGATGGATGCA	248	57.37
CCGAGACTTGAAGCAAGACCT	471	57.28
CCACAAGGAATCAGTCACACAA	450	57.17
TTGCAGTGTATCACGTCTACAG	151	56.63
TTGCAGTGTATCACGTCTACAG	151	56.63
GCATGAATCTTCCAGGATATACAGA	585	57.41
TCCACAACCACAGCAGCAAT	849	58.73
TCCACAACCACAGCAGCAAT	1071	58.73
CGAGAGTTATTGGACAGAGATGAGT	445	56.85
TCTGGATACATTGTGGACGCT	195	56.75
GCTCAACAAGGATCAGATGAACG	539	59.72
AAGAGAAGAGAAGAGGACGGAGAA	381	57.99
GCAGTTGATTGGATTGGAAGG	1220	58.1
TTCCATCCAACCTTATCCAACACTTC	1353	59.27
TTCCATCCAACCTTATCCAACACTTC	1397	59.27
TCGGTATGATGATTGAGAGTATGG	2737	56.8
ATGTGCAGAGTGTATGCAATGG	283	57.25
GAATGGTGGACAGCCGACAG	247	60.08
GAGATGGAATCGAATGTATGGAG	410	56.32
CGAGAATGAGGAAGGTTGTGA	458	56.45
GCGTTGGTTGAAGGAAGGTG	1735	59.16
AAGAAGTTGTGATGGCGGAAG	426	57.92
TCTGGCTTCACTGCTTGCTTAC	57	58.4
TGCCTGCACAGAACTCGTGT	35	59.05
GATTCGGATTGTTGTGTGGAG	1017	56.57
GATTCGGATTGTTGTGTGGAG	737	56.57
GAGGAGCCAATCATCGGAAT	233	57.6
CAACAGATGATTATCTTCAACAGGCA	150	60.32
AATCCAGCATTGTATGATGATTATAGAC	100	56.99
AGAACAATATGAAGAAGAGTATGTCGTG	1292	57.32
AGAACAATATGAAGAAGAGTATGTCGTG	1330	57.32
AGAACAATATGAAGAAGAGTATGTCGTG	1222	57.32
AGAACAATATGAAGAAGAGTATGTCGTG	1300	57.32
AGAACAATATGAAGAAGAGTATGTCGTG	1324	57.32

AGAACAATATGAAGAAGAGTATGTCGTG	1278	57.32
AGAACAATATGAAGAAGAGTATGTCGTG	1197	57.32
TTGCTATCATCATCGCCATTC	1000	57.27
TTATCAACAACATGACCATCGG	1307	56.97
TGAGTAGCTCTGGTTGTAGCCGTT	63	60.28
AATCTACACAATCTCGATTCATCTGT	92	56.25
GGTTGAGAGAATCAGAGTAACTAGGTTC	90	57.44
ATACGACCGACGCCACCATT	1136	61.08
ATACGACCGACGCCACCATT	1136	61.08
GGAGATTCATTCCATCCTTATCAC	539	56.71
GGAGATTCATTCCATCCTTATCAC	539	56.71
GCCAACAGCGACGATGACTC	297	60.38
GCCAACAGCGACGATGACTC	260	60.38
ATTCTACCATCTCTCGTATCTCC	222	57.89
CAGTTATTGATTGGATTGGCTCGT	227	60.18
ATGCCACTAACTCTGACTTACGAA	279	56.05
ATGCCACTAACTCTGACTTACGAA	279	56.05
TTGGAACCTAGTTACTCTGATTCTCTC	86	56.7
CCGGCATTCTGAACAATATCTATC	68	58.52
TCGGATACAGTTGAGCAAGGAA	502	58.44
AATAGTTCCGACGATTCTTCGCTAT	142	59.54
CGAGATGGAACAGTGGAAGC	763	56.91
CGTAATGTCGTTGGTCAATAGTTG	279	57.34
ATGCCTGACATGGATACCACAAC	23	59.59
TGTTACCGAGGTCCTTCCTTGTCT	483	61.13
CGCTCGGAGTTGAAGTGTATC	263	56.19
CGCTCGGAGTTGAAGTGTATC	263	56.19
AATGATATGAGATTCGGCACAGTG	108	59.01
AATGATATGAGATTCGGCACAGTG	108	59.01
GTCAACTCGCTGAAGCTCGTC	244	58.82
AAGTTGTGGCTGCCGATTCATAC	513	61.15
CGTTGGTTCTGACTACAAGGAGA	346	57.16
CGCAGCCTTATGGTCAGCAA	181	60.86
ACGCTCAAGTCGAAGCAGCT	20	58.98
TTGTTCTTGCTGTCCTCGCT	69	57.29
CGACTACTGAATACTCAATTGGAGGA	87	58.78
GAGACACCAGACATATCCGCAGA	806	60.1
CAAGTTATTGTTACATGACGCTGCTT	108	59.63
GGCGGTATTCGTGGCTCAAG	52	61.44
CTAACAAGGAAGCAGCCGACA	94	59.1
CAGCGTGTGTAATCGTTCAATG	689	57.84
CAAGATCTGGCACCATGACTT	43	56.32
TGGATCAACTCGGATCGGAA	123	59.97
CAGCGTGTGTAATCGTTCAATG	689	57.84

GTGTATGTATGGACTTATCGCTGGA	639	58.17
AATGTGGTAGACGGATTCTCATG	192	56.74
TCTGGAACAATTACTGGTGGAAT	980	56.31
TTGTCATCAAGAAGCCGTGA	1554	56.41
TTGTCATCAAGAAGCCGTGA	1762	56.41
TTGTCATCAAGAAGCCGTGA	1554	56.41
TTGTCATCAAGAAGCCGTGA	1762	56.41
ACCATTCAACGGCACAACCTG	79	58.07
AGGAATTCATTGCCAACTGTCT	541	56.46
AGGAATTCATTGCCAACTGTCT	619	56.46
GATTGCCGTTCCAAGTTCTTAC	684	56.57
AATACTCCAGTTCATTCTTGACAT	755	56.18
TTGGCACTTGCTCGAGAGAA	211	58.32
TTGTGGTCCGTTATTTCGAGGAA	254	60.28
TTGTGGTCCGTTATTTCGAGGAA	534	60.28
TTGTGGTCCGTTATTTCGAGGAA	397	60.28
TTGTGGTCCGTTATTTCGAGGAA	320	60.28
TTGTGGTCCGTTATTTCGAGGAA	315	60.28
TTGTGGTCCGTTATTTCGAGGAA	314	60.28
TTGTGGTCCGTTATTTCGAGGAA	675	60.28
TTGTGGTCCGTTATTTCGAGGAA	534	60.28
TGCTCTTCATCCTGCTCGTC	80	57.71
CCTATTCTCATCTCGCTGCCA	82	59.02
ACCGATGAATGGAGCAGTTG	517	57.2
TATCCAAGAATGCCGACCAA	626	57.63
TGTCTATCAAGGCACCGCTAC	61	56.62
GAGACAATCCAGCACCAGTATCC	1106	58.59
AAGTCGCCAGCCACACCAAT	335	61.4
GAAGTGCTCCACCAATGCCA	171	60.61
AAGATGATTCTGTGGAGATGGC	216	56.82
GCAATCGGTGTATGTGTGTGTC	65	57.47
CTGACTAGCCACTGACCATCG	269	57.02
CGTGCGTTGCTGACCTTCTC	216	60.54
ATACCTCGTGGCTCTTGTCG	2458	56.49
ATACCTCGTGGCTCTTGTCG	2539	56.49
GTACAACTATGTCTCTGGAATGAGAGTT	217	56.53
GCACATTGAGCAGCATACAGCA	489	60.93
CGCCGTGGAATATTGAGAC	508	56.89
CAAGGCTCGATCTCTATGGAAT	36	56.23
CGTCATGCCATTCTACCAATC	76	56.65
TTGCTTCGAGGATGTGAACC	101	57.32
AGTATATTGTCTTCATGTCAGCTGGACT	947	58.79
CCAGGATGCTTATATGTCTTCTTGC	442	59.19
CAAGGAATTGCGTATATTATCATGTTCA	916	60.26

CGTCGTCCATTTCGGTCTTCT	29	58.73
GAATGAGCGAAGCAGTGGAC	60	57.07
CCTCAAGGACTTATCAACCTCAA	681	56.2
AGCGACGAAGTTGGTCTCAT	548	56.04
GGCTCTTGTTATCCGATATCCA	207	56.85
TCCACAAGGAATCCTGTTTCATG	918	58.49
GCAATGGCAATAATTAGAACTCTTG	409	57.28
AGTCCTTCTTGTTCTGGCTCTCT	55	56.61
CGAAGATCGATGCGACAGAT	157	57.45
TTCATCTACTCTCTGCTTATGTGGTT	111	56.58
GATTCCGATGAGCCTGAACACT	701	59.18
TGGTGTCAAGTTGGATGGAGAA	1020	57.57
AATCATTGTTATTAGCCATGTAAAGAGG	1265	58.23
ATACGATTCCAGAGCCACAGG	942	57.75
ATACGATTCCGACTCTGGTTGT	441	56.35
CAGCTGTCAAGTGGAGCATGT	157	57.55
TTGGTCTTCTTCTGGTTCTGTTG	101	57.14
CTGTCCAGAGCCTTCAACAAG	158	56.27
CGCAGTACACACTTCGCACT	49	56.19
CGCTACATTGACGAGCATT	27	57.62
CGCTACATTGACGAGCATT	27	57.62
CGCAGTACACACTTCGCACT	49	56.19
CCGACCGACGAGAACTATGG	40	59.14
AACCGACGCCTACCTGATTC	49	57.74
ACGATGAACTGCGAGAACTTGG	31	60.25
ATCCACAACCAACTCAACCACA	306	58.81
TTGGATTTCGGAGATGGAAGAAG	1405	59.13
TTGGATTTCGGAGATGGAAGAAG	1411	59.13
CGATGCGTCTGCTACTGCTTCT	23	60.65
GAATCCATGTATGTGTTGCTCGGA	85	61.85
ATGGTCAGCAGGAGGTGATG	164	57.1
CCTCTCGGCTAGTAGTTGACGA	138	57.41
AAGGAAGAAGAGATTGCTGGTG	879	56.35
AATCCAGGAGTATCAGTGATTACACA	707	56.93
GATACCTTCTTCGGTGCAGTCA	290	57.93
CTGATGATGTTGTACCTCCTACTGTC	78	57.03
TTGCTGAGACTACGTTTCGATTGC	210	60.37
AAGAGTAAGGAGGAGAAGAATCAAGA	1131	56.41
ATTGAACCAGATGGAGAAGATAGACA	323	58.28
TTGGTGATGGATTCATCAATCC	156	58.16
AGAGATAATAGCGAGGACGAACTG	78	57.03
CGAGCGAGTGAGGACATTACTG	157	58.61
CATCCACCAATATCGGCTGTC	456	58.86
CATCCACCAATATCGGCTGTC	428	58.86

CATCCACCAATATCGGCTGTC	217	58.86
GGCGTAGGCGAAGAATCGTA	189	58.92
TTACACTACTGGCTTGCGAGGA	294	58.65
CCTACTCGTCGTCGTATGAGAGC	104	59.05
TCTTCTGGTCAAGAATCAATCGG	896	59.18
TCTTCTGGTCAAGAATCAATCGG	1101	59.18
TCTTCTGGTCAAGAATCAATCGG	773	59.18
CTAATTGTATGCAGTGCTGCTGTC	39	57.8
GCAATTAGAGATTACCGATGGAA	136	56.19
CCGTTCCGGTTAACTCTTCGTT	30	57.06
GCAATTAGAGATTACCGATGGAA	123	56.19
TTGGCGGTCTATATCATCAGC	968	56.45
TACCGCTACCGACTCCTCAA	511	57.05
CGCAGACTCTAATGCTAATGATAGG	632	57.48
AAGCATACGGAATGACATACGAA	199	57.36
AAGTGACAGTGAAGACAGCCAGA	1974	57.72
AAGTGACAGTGAAGACAGCCAGA	1876	57.72
TCAGAAGAACATTGCCGAGAC	179	56.6
TGTCTCAGCAATTCCAAGTCC	730	56.44
TGGCGTCATTCATCGGCTAC	288	60.57
CACAGTTGGAGAACCAGTTAATCG	95	58.72
CACAGTTGGAGAACCAGTTAATCG	106	58.72
TTCCAAGTGCTCCGACAGTT	65	56.98
TGATCCGCATGGATACGATG	859	58.9
CTGAACAGAATGTGCTGTGTGAT	395	56.48
CGACACCAAGTGCCATCTCT	423	57.32
AATCCAGGTGCAATGACAGTG	395	57.12
TGATGCCAGCGACATATAACCA	431	59.93
GGATATGGATGACAGTGCTGGAAGT	1200	61.35
AACTACATTCACTTCAACTTCTTCCTC	1451	56.62
GGATATGGATGACAGTGCTGGAAGT	1200	61.35
GGAGCATATCATTAGATATTGCCAGA	469	58.64
GCTCCTCGATTGTATCTATTCTATTACC	41	57.32
TGGAGAATAATCGGTTGATTGG	38	57.55
TGGAGCGAACCTTCAGTGAT	67	56.91
TTGGAGACATTCCGAAGAAGC	159	57.99
GCTCGCAGAATAAGGTGGAA	855	56.66
GTGCGGCTCCATTAGGCTTC	441	60.67
GTGCGGCTCCATTAGGCTTC	441	60.67
GCTCGCAGAATAAGGTGGAA	619	56.66
AAGTTGTCGGATGATGAAGATGA	1211	57.28
ACCATCCTTCTTCTCTCTCTCAC	47	56
GTGCCTGTTCCACTTCATATCATC	293	58.51
GTGCCTGTTCCACTTCATATCATC	192	58.51

CCTGACGGATGAGCAACAAG	2802	57.89
CCTGACGGATGAGCAACAAG	2023	57.89
CCAGTGATTCTTCGGTCGGT	170	58.59
CCAGTGATTCTTCGGTCGGT	115	58.59
TATTGTTGCTGTTGCCGTGGA	751	61
TATTGTTGCTGTTGCCGTGGA	751	61
ATTCTTACTTCTTGCCAACATTCTC	44	56.12
TTACGCAACAATATATTCTACATGTACC	165	56.03
TCGCAATGAGGAGACTGGTGT	39	59.3
GCAACTAACCATACATGCTCTACTACTC	36	57.1
CTCGTTCTGTTAATGGAGAGAAGATC	408	57.78
GCTCAACGGCTTAATGGACA	390	57.44
ATGTGTTGATTCTCTTCCAGTGTC	311	56
TCAGAAGTCACGCAATGGCA	496	59.96
CCGCTCACACAACCTCCAAC	86	57.38
TAATTGTTATATGAACCAACGTGGATAC	709	57.59
CTTCCTCATCTCCTTCCATTCAAC	2520	59.1
TGTTGTATGCCACGGAGATG	408	56.58
TGTTGTATGCCACGGAGATG	432	56.58
AGCTGGACTTCCATTCAAGTG	787	57.85
CCAACCTCAACGACGACACG	1360	61.1
TCGCAGAGAAGCACCTCAACT	1211	58.82
TCGCAGAGAAGCACCTCAACT	1157	58.82
TCGCAGAGAAGCACCTCAACT	1211	58.82
CCAGAATAAGACGGTTCAGACAT	77	56.08
TGGAGGTGGAGTTGGATAAGC	5107	57.72
CATTGAAGAGCACACAGAGCCA	469	60.01
TGGAGGTGGAGTTGGATAAGC	4429	57.72
TGGAGGTGGAGTTGGATAAGC	1630	57.72
CATTGAAGAGCACACAGAGCCA	4274	60.01
CATTGAAGAGCACACAGAGCCA	203	60.01
CATTGAAGAGCACACAGAGCCA	113	60.01
TGGTAGAAGTGTAGTGTCATTGAAGAGC	309	60.08
TGGAGGTGGAGTTGGATAAGC	5074	57.72
TGGAGGTGGAGTTGGATAAGC	4396	57.72
TGGAGGTGGAGTTGGATAAGC	1597	57.72
TTGACGTTGTTGCAGTGGTG	111	57.74
CGAGGCTTATCCAGACGGTT	172	57.88
CGAAGGCCTTGGATCTTCTGAA	141	61.46
GAATACACAGTTATTGATCCGACGA	285	58.14
GGAAGGAGGTGTTGCTGGAA	311	58.71
TCAACGAGATGATCGGCGAA	468	61.23
GGAGACACGAGTATCTGCTGGA	191	58.01
GAGGTGCTGATGCCACGAAT	138	59.66

AAGGAAGCCAACCGTCGTGT	56	60.49
CCAGACAACACTCCAACCTACCACT	335	56.72
GGAACGAATACAATCCACCAA	1075	56.04
GAGAGATACCAATCCGCCAA	180	56.29
GAGAGATACCAATCCGCCAA	198	56.29
TTCAGTTGTCAACAGCCGCAGT	106	61.7
TTATCATCATTGGCGGCATG	59	58.93
TTGGAAGGTTTCATGGATCGA	241	57.52
GAATGCAAGTGCTCCATGAGT	106	56.47
GGATGGTACGATGGTTCAGG	247	56.36
CTCACCAGTGTAATCATGGAGCA	76	58.87
ATTGTGCTTGAGAACCGTACAGGAT	85	60.9
CGACACAGAAGAGGACGCTGA	89	60.15
TGGAAGTGATATTCGGAGGATT	611	56.31
TAGACGCATGCTCGATAGACG	421	57.78
GGAATCGTTGGAGTGTGGAC	349	56.43
CCTTCTCGGATTACTTGCTGTAG	283	56.12
GTTAGCTGGCACGGAATACCT	143	57.02
CAACCACCACCACAGCAACA	118	60.02
TCACTACACCGTTTCAGATTCCA	558	56.8
TCACTACACCGTTTCAGATTCCA	558	56.8
AGTTGGACCGGCGAGAGCTA	164	60.85
CTCCGTAACCTTATCGTTCTTCTCG	64	60.41
AACCTTCCAGACGACGCTACT	1802	56.73
CCTCAACTGGTGGATATTGGAAC	815	58.36
CCTCAACTGGTGGATATTGGAAC	811	58.36
CGGACTCAACACTGGATTGG	107	57.58
GCTCCGACGAGAAGTGTGCT	1475	59.19
GCTCCGACGAGAAGTGTGCT	1472	59.19
CAGAGATTATTCATCAACAAGTTACACG	237	58.37
AGAAGGAATGGATGACTACTCTGC	24	56.78
CAGAGATTATTCATCAACAAGTTACACG	150	58.37
GCATCAAGTGGTCTCGCCGAA	135	60.61
AACAATAATTCATCAACGCCAGGA	206	60.49
TTGACTCTTGACTGTTCTGCCA	8632	57.2
TTGACTCTTGACTGTTCTGCCA	8632	57.2
CGGAATGTGAGAACTGTACTTCAAC	356	57.95
TGCTCCGAGAACGCTGCTAC	161	60.25
TTGGCTACGACGACCACGAG	243	60.79
AATTATTGGAGAAGAATGTGGTCAT	186	56.03
TTCTTGATCTCCATTCCAGTTGT	118	56.45
GCAAGAAGTGAGAATAGATCTCGGAGA	406	61.36
GCAAGAAGTGAGAATAGATCTCGGAGA	400	61.36
GCAAGAAGTGAGAATAGATCTCGGAGA	410	61.36

GCAAGAAGTGAGAATAGATCTCGGAGA	332	61.36
GCAAGAAGTGAGAATAGATCTCGGAGA	332	61.36
GCAAGAAGTGAGAATAGATCTCGGAGA	405	61.36
GGTTATGCGAGAAGCCAATG	568	56.93
AACGCTCAATCTCTTGCTCTTG	64	57.52
ATGATAGCACACCACAGCACA	1095	56.23
TTATTGGATAACAATGGCTAGCTATC	40	56.14
AATTATGTTGTCGCAAGCTTAGAATTCC	635	58.38
TTGTTGTAGTTACTGGAGAAGTTGGA	813	57.27
GAGTCTAATCAATGGCTGGCA	591	56.52
AATGTGCTCCAGTGCGGTGA	880	61.22
CACCTGTTGCGTTCTATCTTCTC	45	56.83
GGTGGACAATGGTTGTACGAG	471	56.51
GGTGGACAATGGTTGTACGAG	311	56.51
TTCTAACAGGAACTGAACAAGGATT	1256	56.41
GCACCTACTCTTCCACCACCA	4450	58.65
GCACCTACTCTTCCACCACCA	4072	58.65
AATAGTGGCGAAGGAATGGAT	55	56.32
GCACCTACTCTTCCACCACCA	4678	58.65
CACCTGTTGCGTTCTATCTTCTC	1930	56.83
CACCTGTTGCGTTCTATCTTCTC	1889	56.83
CACCTGTTGCGTTCTATCTTCTC	1735	56.83
TTCATCGTTCAGAGCAGACAAC	78	56.68
CCGTTCTTATTCTCCTGGATCTGTT	1298	59.84
GTGACGATGATGATGGATACAAGT	469	56.6
AAGACAGCAAGTTCACCTACAATG	292	57.23
GCCAATCAGCACCATGAACA	227	59.09
GCCAATACAAGCCACTACTAAG	2772	56.81
AATCTGATGGTTCGTTCC	455	57.36
CTTGAAGTCAGTACCGATGAATATCTAC	799	56.91
CTGCGTTGAATGAGTCTGGAA	2759	57.55
TTGTCTGATGCTGTTAATGAATAGATTC	409	58.01
TTCTAACAGATGATCAGCATCTTCA	363	56.87
TGTCTGGCAATGGCGTCACT	136	61.22
TTGGAGTGTTCTCTTGCAAGC	183	58.33
AACGGACGGTGTGTACCAACT	234	57.96
AACGGACGGTGTGTACCAACT	234	57.96
CCAACCTGGTCATGGCTATC	152	56.52
CCAACCTGGTCATGGCTATC	136	56.52
TCTGGACTGGTCATTCTTGCC	99	58.72
TCTGGACTGGTCATTCTTGCC	123	58.72
TCTGGACTGGTCATTCTTGCC	99	58.72
TCTGGACTGGTCATTCTTGCC	123	58.72
TGATCCAACGTATATACTATCACCAGAT	1889	56.14

CTTCTCGCTATTGCCGCTGT	61	59.21
CCTGGATATGGACGACCTAGTTAC	155	56.88
CCTGGATATGGACGACCTAGTTAC	191	56.88
CATCGTATGGCGGAGGTTAC	100	56.66
AATATCACAAGATGTAGCACAACCG	90	58.21
TGGAAGAGGAAGTGAAGACGA	387	56.16
GTGCGTGCTCCAACAACCTCA	767	59.46
CACTGCTCTGAGAACCATCGG	370	59.44
TATTGAGTCGGCGGATTGGA	814	59.99
CGGACCAAGACGAACACTGC	294	60.26
CGATGGAGCGTTGAATGTTG	751	58.72
CAGACTCTCGTGATGGATATAATGG	718	57.76
CAGACTCTCGTGATGGATATAATGG	721	57.76
TTGGAGAATTGTTGAATTGTGG	3467	56.25
GGAGCAGCCAGAATGTTACG	613	57.05
TGAAGGAAGCAGAAGGAGTAGAAG	81	57.22
ATTCCAATGGCACTGACCTACT	63	56.35
CACCATACGAAGAGCAGAACAATC	70	58.81
ACTGAGACACCATTTCGTTGCG	1038	59.75
ATTGAACAGTACAGTGATGTGGCT	249	56.5
ATTGAACAGTACAGTGATGTGGCT	257	56.5
ACGGTGGTGGATGGTGTGTG	366	61.14
GTTACATCTCGTCGTTCCGGCAT	1533	59.97
TTGGACATATGCCTTGTGTCA	73	56.1
GCTGTGTCATTGAATACGGTAGAAG	69	57.98
AAGCGAACTGACAGACGTTGC	117	59.13
GAATCATCAACCGTGACAGAAGA	314	57.78
GGAATCAACAACAGAAGAAGTATGCC	253	60.2
GTCATTGTGAGGATCTTGACTTCC	628	57.75
TGAAGTACCACGGCCATCTG	334	58.17
CGCCTATTGATGCTGATGCC	366	60.15
AAGCCACCTCAACTGCGACA	237	60.4
GGTGGAGAGAAGGCAGATGG	76	58.27
GTCCAATCGACACGTTCTCC	39	56.59
GAATCATCAACCGTAACAGAACAAC	244	57.7
CAGCCTACCTGTTGTGAGCA	1025	56.09
GACGATTGCCTCACAACCTTCC	239	58.24
AACTCAGATTCAACCAATTCTACCG	371	58.65
TTAGTGATATGGATGCTACACAAGTTAG	1213	56.22
TATTCTGGCGTTCTCCGATG	690	57.38
CGGCACAGTGTACTTCACCAAT	932	58.63
TCCACAACCACAACGACTCC	101	57.98
AGCTCAACTGCACAAGATACGA	101	56.43
CGGAGAAGATAGATGCTGAACG	281	57.72

GTGAGGAAGTTGCCAAGGAG	550	56.02
TTCTGTTCTCGTCTCCTATATCG	92	57.64
TTACTACCATACGTGCGAAGCA	150	57.2
TGATACATCCAAGTATCTCTCGTTCA	265	57.92
GCCACCACAATTAGCGCATT	527	59.56
TTGCGACCTGATGACGGACT	694	60.23
ATGAGGAGATGTTGCTGTTATGTGC	728	60.36
ATGAGGAGATGTTGCTGTTATGTGC	785	60.36
CTCCTGAGCAAGCTACAAGGC	90	57.97
TTGAATCCTGTGGAATTATGGTG	224	57.48
AGAGTCCAGCAGAGTTATTCGG	504	56.38
TTGTGTGCTATGTGATAGTGATTGG	773	57.77
GGCGAGATCTCAAGTTCACCA	677	58.87
CTCGTCGTCAGCAACATCCG	128	61.35
GGTACTGCGTTGGACCATT	296	56.15
TTATGGATCTGCTGTCAGAAAGTTG	46	57.21
AACAAGTGATAGAGTGTCTCAGACCA	685	57.24
AATGGCTTAGTAGTTATCGTTCCAA	598	56.48
AACTGCTGCTGCTTGTGCTG	1306	58.98
TTCATCTTCCTATTCATCCAGCA	181	57.45
GGACGTACAACCTACCAACAGAC	1355	56.34
GCAACAACAGTAATGGCAAGTG	1198	56.99
ACAACCTCGACAATGATATAGATGCG	258	58.29
CAGAGGCGATCCGTCCATT	195	61.46
AGCCTTGTGACGACGATTGG	243	59.69
AACTATTGGATTCCATAGAAGTTCAAC	199	56.36
AACTATTGGATTCCATAGAAGTTCAAC	181	56.36
TCAGAGAGGTGGTGCAGGCA	1381	61.53
CCTGTCCGAGAGATTGGATCACTT	255	61.59
CAACGCAGTCGGAGCAAGAC	226	60.54
AGCGGCTGCTGTGCTCCTAG	571	61.68
CGAGAGGTGAATGTGACGATG	217	57.75
GAAGAATCAGGAGGAAGGTCGTCA	602	61.69
CTCCGGCGAGATTCAGGTTA	131	58.86
TTGGTATGACTGGAAGGTAGGC	96	56.87
AAGTATCTTGCCTCCTCAACCAT	794	57.01
CTCATCTCAGACTAATGGACGACA	41	57.12
AAGCATCTAACCACGGTTGG	686	56.3
AATTCTTGCATTCTTCTTCCAACA	886	58
AATTCTTGCATTCTTCTTCCAACA	637	58
AATTCTTGCATTCTTCTTCCAACA	718	58
GCTTCATCTTCTTCTTCACTTCG	157	56.22
CAACTTCTGTCGCTCGTCGCT	29	61.57
GCACTGACTTCTTCTGATGAGTACG	34	58.29

CGAGAAGTGAGCAGCAGGTG	93	58.35
AATACCAGCAACAATCTCCTCTG	74	56.22
AACCACACGGAATGCTGCTC	615	59.7
TTCCTTACCATCCTTGCCATT	97	57.17
CTCTCTCAGTTATTGCTCTTATTCTTCG	213	58.52
CACCTCGGCAACCACTGATG	291	61.07
CACCTCGGCAACCACTGATG	412	61.07
AGAAGACTGCGTTGTGATGAATG	551	58
TTGGAGTGTGAGTCGGTCTTG	199	57.37
TTGGAGTGTGAGTCGGTCTTG	250	57.37
AAGATATGGTGTCTGAGTGGTGA	508	56.41
GAAGATGCCGATGAACGAAT	364	56.29
CGACACGGAGGAGAAGACGA	359	59.95
CGACACGGAGGAGAAGACGA	609	59.95
CCTTGCCTCATCGGTTGCTC	683	61.61
CCTTGCCTCATCGGTTGCTC	663	61.61
CCTTGCCTCATCGGTTGCTC	620	61.61
CCTTGCCTCATCGGTTGCTC	661	61.61
CCTTGCCTCATCGGTTGCTC	584	61.61
GATCCAAGTGAGAAGACACAAGTG	46	56.62
TCTGCCGACGAACTTGTCAA	1025	59
GATGGTTATCACTATTCCTCAACTCTAC	95	56.06
GCTTCAAGTGTTGCCAGGAG	409	57.13
TGGTAGTGATCGGAGATGGAG	89	56.25
TGGTAGTGATCGGAGATGGAG	82	56.25
CTGGAGACACGGATCACGGA	45	60.63
GGTTGACGTGGAAGAATTGG	580	56.55
GTTGGAGAACCAGGAGTTCAAGG	206	59.96
ACTGGCGATATTCTTCAGGTAATCTCC	2013	61.87
ACTGGCGATATTCTTCAGGTAATCTCC	990	61.87
GCTGCTATCGCCACACATTC	270	57.93
TTCCAGTCTTCCGCCGTCAT	279	61.48
AAGATGGCACGAGAGCGGAA	246	61.74
CTAATCATGCTCATAACCGTGCT	429	57.14
TATTCAATGCCTATATCTTCCTTGCTT	251	58
GTTACCGCCTGCATCTTCC	45	61.49
GTTCAGGATGATGGAGATGGAC	259	56.96
CGTGCTCCAAGAAGGTGGCT	120	61.27
AAGTTGACGCAGAAGACAATGG	271	57.99
GTGGTGCCGTCATCGTGTGT	135	61.44
GTACAGTCATCGGTGGACGAGATTC	592	61.86
TTCCAGTGTAGATGTTCCAGAGC	1081	57.1
CGGTTATTGTTAGTATGGTGGAGA	1367	56.09
CGGTTATTGTTAGTATGGTGGAGA	1416	56.09

GCATCAATGACAGACGACCA	551	56.58
GCATCAATGACAGACGACCA	429	56.58
GATCACGTTAGACACGGACCA	1326	57.12
GATCACGTTAGACACGGACCA	1190	57.12
TAGGCACGAGGAGGAGAACC	202	57.93
CGCTCATACACACAAGAAGTCG	226	57.2
CCTCATCTGTACAGCACAGTC	89	56.96
AATGACCGTTGGATGCGAAC	985	59.39
TGGCATCACAGATTGGTTCCG	521	59.08
CCGATTCTCTATCCGACGTG	176	56.83
CGGTAGTAATCTCAGCGAACG	399	56.35
CGGTAGTAATCTCAGCGAACG	399	56.35
AGGCAGGTGTATCGGACTTGT	495	57.28
CTCGCCTACGTGCATTCTC	323	59.43
AGAGTATAAGATACAGGCTGAATGTCTG	1712	56.72
ACCTGGAACATTGGATAAGGAGTT	1283	58.03
ATCATCAGGCACTGGATAGGC	361	57.7
AAGTGGAAGCAATCGGAGCA	1381	59.4
GCCAGATTCCTATAGTGCAACTCG	58	60.09
CTCAACGCCTGGATGTGTCA	502	59.25
CTCAACGCCTGGATGTGTCA	502	59.25
GCCAGGCAATGTCGTCACAA	1076	61.6
GCCAGGCAATGTCGTCACAA	1207	61.6
CCAACAACACTCAACTCAACAGGA	948	60.05
CCAACAACACTCAACTCAACAGGA	1079	60.05
TCACTCAATCACTGCCTTGTGC	96	59.88
ATTCCATCAACATCGTCATACACA	372	57.86
ATTCCATCAACATCGTCATACACA	372	57.86
ATTCCATCAACATCGTCATACACA	372	57.86
ATTCCATCAACATCGTCATACACA	372	57.86
ATTCCATCAACATCGTCATACACA	275	57.86
ATTCCATCAACATCGTCATACACA	275	57.86
ATATGCGGATATTCTCACATCAAG	295	56.09
AAGTGGAAGCATCATAAGGAGGA	450	57.91
ATTCCATCAACATCGTCATACACA	372	57.86
ATTCCATCAACATCGTCATACACA	275	57.86
ATATGCGGATATTCTCACATCAAG	295	56.09
ATTCCATCAACATCGTCATACACA	372	57.86
ATTCCATCAACATCGTCATACACA	275	57.86
ATATGCGGATATTCTCACATCAAG	295	56.09
AAGCAGCACGGACAATCACA	1542	58.88
AAGCAGCACGGACAATCACA	1486	58.88
GCTGAAGGAATGGCTGCTGA	519	60.06
TTGAGAGAATGGTTGGCGAT	1300	56.8

TTGAGAGAATGGTTGGCGAT	1313	56.8
TTGAGAGAATGGTTGGCGAT	1431	56.8
TGATCAATTGTCACCAGCATTG	687	58.08
AAGAAGAATGATTATGGAAGCTGGCT	363	57.56
TGTATCGGAAGCAGCCAATC	7999	57.38
TTAGAATAGAGCAACTGAACAAGCA	1561	56.42
TTAGAATAGAGCAACTGAACAAGCA	1561	56.42
ACGAGGAAGACTACGATCAATCTG	880	57.62
GGAATGAGCGATAATGACTATGC	515	56.6
TATGGCTTCAGTGAGATACACCTTC	322	57.57
TATGGCTTCAGTGAGATACACCTTC	338	57.57
CTAAGGATTCAGCCTATATGCTTATCAC	479	58.12
AATGGTCGATGATGTGAAGTGTG	1393	58.43
CGACGCATTCATGTCACTTC	4268	56.27
CTTATCGTGGAGGTGCTGCA	355	58.47
TTATGAAGTTGTACCGAGAGCAAG	115	56.55
ATTCATCAATGTGTCACTGCGGTA	222	60.24
GCTATCGGCTATTGTTAATGGAA	205	56.33
AGCCGATCATAAGAGTGTTC	255	57.96
TGGAAGTGGACGAGAGAGAATG	30	57.99
GTAATGTGAAGTCCGCTGAATG	854	56.03
GTAATGTGAAGTCCGCTGAATG	854	56.03
AACCATCTTGATCTCAATGCTGT	803	56.48
TGGCACAGGACAAGATGGCT	3060	60.23
AACTTATTCATCTGACGTGCTACAAG	210	56.99
TGTCGTGCCATGAGAATGTC	278	56.58
CACCTGTTCCACCACCATCT	174	56.84
CAACATCCGATACAGTTCTGGTCA	529	59.87
ATGTCTCACGTTCTCGCCGAA	72	61.65
CCGAAGTGAGCCAGATTACG	230	57.05
CGAAGTTGGTTACTTGTTTCATGAG	749	56.72
TTAGAGAACTCAAGGTCGCCAGT	765	58.21
TGTCTGATTACGCTGCGATTG	928	58.53
GCTTCTGTGTGTATGATATTCTGGA	272	56.22
TTGGATGATAGAGAACGGCTGGA	377	61.7
CGTAAGCATGTCAGAATTGAAGC	283	57.72
CGCCTCTCTGATGATTGTGAA	45	57.49
GCGTTGCTCATTGTGGTTCTC	36	59.32
GCGTTGCTCATTGTGGTTCTC	36	59.32
ACCTGACGACTCCGATGACG	417	59.69
AGCCTAAGTCAGCCGGAAGA	497	57.77
GAACAATCTGCAACCGAACC	1164	56.71
TGACTGGAATAACTGGAAGTACACA	72	56.6
AAGCCTTCCAGTAATGTCATCAGT	1014	57.08

CGAGTTGGAATCAATGCTGAA	734	57.43
GGCGGTACTACCATGTGCTAGTC	559	58.9
AATGGATTAGTATATGGAGTTCGGA	153	56.11
TCCGTCACATCTCAGCACAA	4809	57.32
TCCGTCACATCTCAGCACAA	4614	57.32
TTGGAAGAAGATGGAGATATTGGA	3399	57.78
TTGGAAGAAGATGGAGATATTGGA	3594	57.78
TCCGTCACATCTCAGCACAA	4764	57.32
TCCGTCACATCTCAGCACAA	4569	57.32
TTGGAAGAAGATGGAGATATTGGA	3399	57.78
TTGGAAGAAGATGGAGATATTGGA	3594	57.78
TCCGTCACATCTCAGCACAA	369	57.32
ATCTCTCGTATCGTTGTGATTCTGC	146	58.81
ATACAGTTACGGAATGGAAGTTGAAG	426	57.88
AACCAAGAAGAATAAGCATCTACGC	152	58.18
TGCCACCACATTCTCCACCA	755	61.9
CGCCAGTAACGAATACGATCA	708	57.42
ACACAGTTCTGCGGTAATTCCAA	588	59.52
AAGTGATGACTGTTGCCAATAACTACG	736	60.59
CGACGAACAACCTCAGAAGCA	284	56.22
TAACGCAGTCTACCAGCCAAC	113	56.68
GTGTCGGAGGACCTGGAGTG	1633	59.11
ACATCAACTAATATTCTTGCTGATTGGA	173	59.37
ACATCAACTAATATTCTTGCTGATTGGA	113	59.37
ACATCAACTAATATTCTTGCTGATTGGA	124	59.37
ACATCAACTAATATTCTTGCTGATTGGA	173	59.37
GTGTCGGAGGACCTGGAGTG	1341	59.11
ATTGGAGAAGAATCGCATACAGAA	523	57.98
TATGACTTGCGGACAGATGGC	89	59.68
GAGGCTGAGCAGTTGACAGAC	954	56.28
GGACTGTTGTTGCGAGGTGAG	78	59.34
TTCTATCCATCCAGGACAATCTCA	543	58.57
TTCTATCCATCCAGGACAATCTCA	400	58.57
TCCAACGGTGTCCATTCTCC	697	59.34
GGTTACTCCATCGCCAGCCA	626	61.86
CAATGGATACTGCTGAGAAGGTT	148	56.22
GTGGAAGTAGCGTGAGCGAA	396	57.72
GTGGATTGCGAGCTATCTGC	536	56.04
AACCATCAGGACCATCAGGA	71	56.36
TTAGAGCACATCCGCCACCA	288	61.13
TAATGTGGTAGTTGCCGTGAAG	636	56.52
AACGTGATGGTTGCCGTGAAG	714	61.78
CCATTGCAGATTGAGAAGAGC	873	56.25
TAATCAGCCGGAGTTATTATTCG	1471	56.33

GTCGTCAGATTCTACCGTGGCT	144	59.24
CGCTATTCAGTTATGATATAGAAGAGGT	539	56.05
GTTGCCGAAGATGTTAGACCTC	66	56.61
CGTGATGCTAATGTGGCTGCT	33	59.87
CGTGATGCTAATGTGGCTGCT	37	59.87
CGTGATGCTAATGTGGCTGCT	78	59.87
ATTCTTCTGCCGTCATCTGCTC	349	59.45
ATTCTTCTGCCGTCATCTGCTC	151	59.45
AATAACTATCAGCCTGTTCAAGGACTG	767	59.19
CGAGAGGAGAACGGAAGAGAT	820	56.31
AAGTATTCCGAGAAGTTCAGCGA	1419	58.22
GATTCATACGATTATCAATGATACCGA	707	58.34
GATTCATACGATTATCAATGATACCGA	569	58.34
CTCGCAAGACGCCAAGGAAC	1168	61.76
AATGGCGACAATCAAGTCTACA	1177	56.03
AATGGCGACAATCAAGTCTACA	1177	56.03
GCTCACCGCTTCTGGTAGAG	450	56.37
TAATGCACGTCGATATTACTTCATC	125	56.27
GCTCGTGAATGGTCTAATGCTC	735	57.58
TCGAGGTGGCTATCAGATGC	1542	57.45
GATGAGGTCCAGAGAGTTATTGCT	999	56.78
GCTTCACTTCTACCTTCTTATTATTCG	207	59.23
CGAACCACACCAGAAGCATC	264	57.74
TATGCCGCCACGAATCAATC	787	60.38
TATGCCGCCACGAATCAATC	396	60.38
TATGCCGCCACGAATCAATC	49	60.38
TATGCCGCCACGAATCAATC	478	60.38
TATGCCGCCACGAATCAATC	808	60.38
AAGCAGAGTGACGAACATCTTCTC	552	57.85
AAGCAGAGTGACGAACATCTTCTC	648	57.85
AGTATTGACTTGGATCAGATGGATG	100	57.26
CTGTCCAACAAGCAGAGAGAATG	565	57.74
GAGTGGAAGGTTCTTCAACTGC	53	56.68
GCAATGGACGACGGTAGAAG	36	56.89
ACCTACACATACATCCATCTGATCCA	53	59.51
AGAAGGAGTTGGATGAATATGAAGA	2050	56.29
CCTTCTACTCTCGCACCCTCA	521	58.21
CCTTCTACTCTCGCACCCTCA	521	58.21
CATCTCTGGAACGGCTTCTG	1437	57.07
CTGAACTTGAGACGCCAGTCA	436	57.68
CCACTTCACACCTTATCTCTACGC	415	58.04
TATGAGACGAGTGCCGCTGT	352	58.07
AATGTGGACAAGACGATAACTGC	111	56.94
GCGTGCAGAACTAGGAACGA	508	57.72

AATAGTTGCGTAGCGTCTTGTG	202	56.02
AAGGAGGATGGTTGGCTGCT	1868	59.66
GGAGTATCTTGTGCATGCGGTGTA	48	62
GCTGATGGCATTGTGATTGAC	77	57.62
ACAGTTGGCGACCGATATCG	196	59.54
CAACAACCGCACAAATTGAAGG	50	59.97
TGAGCGATGAGCAACAGATTC	185	57.64
CCTTCAACCGCCTCCATATATCTAC	33	60.04
AAGCTCATAGTCAGAGATATCGAGGAT	127	58.18
TATCCACCTCTGCCTGCTGA	751	57.99
TATCCACCTCTGCCTGCTGA	749	57.99
CCTCATCAATCCTTAGCAGAGAA	47	56.42
AATGCAATTCGAACATGCGA	2335	58.71
CCATCTTCACGATTGCCAAC	636	57.6
AAGATTCGCATTCAACCACCA	226	59.02
GGCGAATGAACCTCCACATC	98	56.64
TGATATTGAGAGATGGAGTTGTGC	2358	57.01
GAGATGGATTAAGATTGCTGTGTG	451	56.6
AAGATGGTATCACGGTTGGTG	39	56.01
CACAGCAGCGTCATCAGAGG	415	59.15
GGATATGGTTAGAGGCATTGCT	1738	56.08
AAGACGACGACGACGTTTCATG	700	59.75
CCATCTATGCTGCTCCACCA	65	58.27
TGACACTCTACGCAAGAAGTCAA	47	56.48
TTCTAATGATATTCGTTGTGGATGTC	237	57.29
TCGGTGTTAATCTCGCTTGC	759	57.59
CATGTCACAACAGCCAACTCG	412	58.79
CCACAGAGATTCACTACCACACC	588	57.19
CCACAGAGATTCACTACCACACC	471	57.19
TCGTGGAGTCAGACATACAGCA	247	57.98
CGGACGATGTGGAGTATGATG	58	57.49
CGGACGATGTGGAGTATGATG	58	57.49
CGGACGATGTGGAGTATGATG	58	57.49
GGAAGCGCTACTACATTATAACCG	142	57.32
AATCCTAACAGCCGCACAAC	1200	56.45
AAGCATTGGATGATGGAAGG	618	56.14
CAATGGACCTGTCGCTGGAT	334	59.51
CAATGGACCTGTCGCTGGAT	401	59.51
AAGTGTGTCTGGAGGAGAGATTGTG	63	59.68
AGCAGTGAAGGTAGTGGAGAGC	531	56.47
ATCGTCTCTTGTGCGCTGTCA	313	59.44
GGAATCTCCGCTATCGACGT	484	57.83
GAGTGGATTCTTCTCGTGGATC	3312	56.4
TGTTAGTAGCCGTCGATTACCG	399	57.97

GAGACAACCGCAGTCCACCT	92	58.75
ATGATGAGCACTCCACAGCA	209	56.31
TTCGGCATTCCAACACCTTC	50	59.5
AGCAGTCACCAACACTTATCTCC	897	56.16
AGCAGTCACCAACACTTATCTCC	1162	56.16
AGCAGTCACCAACACTTATCTCC	775	56.16
AGCAGTCACCAACACTTATCTCC	835	56.16
TTGCGAACGAACATCTTGGTG	1668	60.62
TTGCGAACGAACATCTTGGTG	1617	60.62
TTGCGAACGAACATCTTGGTG	1165	60.62
TTGCGAACGAACATCTTGGTG	1668	60.62
TTGCGAACGAACATCTTGGTG	1099	60.62
TTGCGAACGAACATCTTGGTG	1671	60.62
TAAGGACAGAGGTGGAGGCA	1600	56.92
TAAGGACAGAGGTGGAGGCA	1558	56.92
CGACACCAAGAAGAACTCCATC	617	57.38
CGACACCAAGAAGAACTCCATC	422	57.38
TAAGGACAGAGGTGGAGGCA	1600	56.92
CGACACCAAGAAGAACTCCATC	335	57.38
ATAATGCTCACAATAAGAGAAGTAGTCG	305	56.81
ATAATGCTCACAATAAGAGAAGTAGTCG	116	56.81
ATAATGCTCACAATAAGAGAAGTAGTCG	60	56.81
ATTGCCACGACACAGAGGAA	40	57.74
AGAAGCAGCGGTGGAAGAGA	77	58.76
AGAAGCAGCGGTGGAAGAGA	52	58.76
AAGAGCGGAAGATAGAATTGCTAA	525	56.8
CCAAGACAGGATCCAATTGAAC	515	57.12
TTGAACATCACCGCAACAGC	106	59.28
TTGAACATCACCGCAACAGC	420	59.28
ATGAGCAGTTGCATTGTGACG	48	58.39
GGATGAACAGAATCACGCCTA	78	56.37
CACAAGGCTGCTATCTACGGA	334	56.77
TTGCCAATGTCACACACTGAT	69	56.03
TTGAACTCTAGACCTCCAGACTGCT	51	58.77
AATCCATTGACCGCCGTGTA	1518	59.78
AATCCATTGACCGCCGTGTA	1029	59.78
CTCCAGCAGTATGTCCACAGAATC	599	58.78
CGTCTCACGGTTCCTTCAAC	221	56.82
TTGCTACGATGTACACAATAATCTCA	374	56.77
CGTGGCAAGAAGGACAAGAC	844	56.98
CGTGGCAAGAAGGACAAGAC	907	56.98
CGTGGCAAGAAGGACAAGAC	932	56.98
GGTGAACCGAGTCACACAC	271	57.39
CGACAAGCGTATTCAGCAAGA	105	57.8

CGACAAGCGTATTCAGCAAGA	405	57.8
GGTGGAAGAATGGCTAATGTTG	328	57.24
TTGCTGGAGAGATTCCTGTTCAC	253	59.34
CGCCACAGAATGCTTGACTC	1659	58.05
AACCACGGACTTATCCTTAGCA	254	56.61
GTGTCCTACTCTGCGTGCGA	413	58.63
GGCAAGCTGCAATATTCTGG	175	57.08
TTCGAACGTATGTGGTTGGC	527	58.08
AAGGAATACACTAATGGAGATCCTGA	1485	57.45
ACAACAGTAAGCAGAGCATCAACA	885	57.76
CAATGCTTCCACAAGATGTCAT	335	56.3
GGCCAGCTGGAAGATAATGG	650	58.21
CGTCTACCATTCAAGAACTGAAGTCA	759	59.7
AAGAAGATTATTGGATCGGACAGT	448	56.17
AAGAAGATTATTGGATCGGACAGT	448	56.17
AAGAAGATTATTGGATCGGACAGT	448	56.17
AAGAAGATTATTGGATCGGACAGT	550	56.17
CGAGGAACAATACGGAGGAA	147	56.37
TTGAGTGAATTGCTAGAAGATGCT	144	56.24
CAACTCCAGCATTCTCATCAAC	309	56.02
TCTGGTACAGTTGCTCTGCGA	96	58.26
GGTTCCAAGCTCGTTGCAAG	359	59.44
GCAGCGGTAGCGTCAGAGAA	125	60.25
GGATTCTCACAGATGTATGATGATGGT	78	60.29
GGATTCTCACAGATGTATGATGATGGT	78	60.29
TTACAGTCAGTCCAACGTTCCAAG	684	59.21
TTACTGATCATTGTCTTCTTACCA	337	56.65
CGAATCTTCATTGAAGTCTGCCT	460	58.52
AACTGCGTCGTCAGTCACTAGT	721	56.01
CTGGACCAATCGCAGAGACT	678	56.5
CGATTATGATCGTATTGCACGAA	43	58.63
AACATCTCCTCGACAGCTGGTTC	467	60.6
TTGCCATTGGACATTGATTG	201	56.44
TCAGATGATGTTAGCAACTACACAAGAG	1066	59
TCAGATGATGTTAGCAACTACACAAGAG	446	59
GATGTACTTGGAACGGTGTTGA	1004	56.21
GAATCCTACGACTACTGCTACGG	1122	56.01
CAGCACCACCGCCTTATCCT	437	60.96
CAGCACCACCGCCTTATCCT	608	60.96
CAGCACCACCGCCTTATCCT	465	60.96
CATCAGAAGAGCGGAACTACG	174	56.35
ATCTTGTCAGTCTCCTGCGT	3895	58.56
ATTGATATTGAGACTTGTGGTCCATCTG	1077	61.47
GTGTCTGAATGAAGCGTCGGT	339	58.8

AAGAACTCCGTGAGCTGTGC	1146	56.72
ATTGAAGATGCTGGTGGAGGAA	439	59.54
CTGTCTCCGTCCGTCAATCC	78	59.09
AAGCCGTTCAAGAGTCATCATCA	1354	58.4
GGTATGCTGTATGCTCTTCTCTCC	55	58.54
GACTGGCTATACAAGTTGTATGATCC	425	56.26
GACTGGCTATACAAGTTGTATGATCC	188	56.26
GACTGGCTATACAAGTTGTATGATCC	443	56.26
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TTCTCAACAGTAACCATCCAACG	673	57.79
TTCTCAACAGTAACCATCCAACG	683	57.79
TTCTCAACAGTAACCATCCAACG	591	57.79
TTCTCAACAGTAACCATCCAACG	531	57.79
TTCTCAACAGTAACCATCCAACG	726	57.79
TGGGAGGATGAAGAGGAAGA	996	56.01
CACCGAATTCTACTTCTACACACAATG	850	59.09
CATGATGCTCATCGTCTCCA	73	56.68
AAGTGCATGGAATTGTCTACTAGGA	155	58.68
AATCGACTATCGTCGCCACTT	454	57.45
CGGTGGAAGAAGACGTGGTT	1575	58.64
AATGTCAAGAATCGCAGTGGCT	531	59.73
TACGGAGGCGGCAGAGTCAT	159	61.63
ACAGGCGATGAGCCAACCTC	835	61.13
GCCATTGGAGAACGTGGTGTT	77	60.73
GTCGCTGATATGAACTATCGTCTG	348	56.77
CGATTCAAGTGTATCAAGGC	143	56.88
CGATTCAAGTGTATCAAGGC	403	56.88
GCGATTATTATTGTGAAGCGAAG	82	56.89
TCATTATATTGGCACGACATTC	873	58.44
CAAGCATCAGAACGACATAGCC	181	58.47
AATTGGCAATTGTTGATGGC	77	57.02
CGAATTGGAGTGTTGTGACCT	362	56.23
TGTTGCGGAATGGACTGTTG	189	59.13
CCACAATTAGTGCTGTATTTCGC	53	56.19
CAGGAAGAGTTGATTGTTGTGGA	630	57.83
CAGGAAGAGTTGATTGTTGTGGA	630	57.83
GCGACAGGTACAAGTGGAAGC	301	58.46
GCAAGAGGAGGTGGAAGAGG	110	57.51
GTCATTATCACACCATCACTTCCA	195	57.46
CGAGTTCAGGCTCCACAGAT	3521	56.5
TAGACAAGCCACTCAACAAGAACT	614	56.11
TAGACAAGCCACTCAACAAGAACT	554	56.11
TGGACACCGAAGGATGGACA	130	60.88

TGGACACCGAAGGATGGACA	130	60.88
GCTTCACTCGGCACACTTCA	22	58.6
CAGAGAAGTATTCCGAAGGATACTGAGT	1152	59.61
CAGAGAAGTATTCCGAAGGATACTGAGT	1152	59.61
CAGAGAAGTATTCCGAAGGATACTGAGT	1194	59.61
CAGAGAAGTATTCCGAAGGATACTGAGT	1194	59.61
AACTGTAGACGTTCTGTAACTTG	2047	57.67
ATGTTCAAGCCAACGACACTCT	255	57.47
CGTTGATTCTGATGTACAGTATCTTCA	677	57.58
CGTTGATTCTGATGTACAGTATCTTCA	653	57.58
ATCGGAGCGGTTCTTGTTG	269	61.07
GCAGCATCGTATTAGAGAAGAGG	199	56.19
AATCACAATAACGGCCATTGAG	339	57.63
TCCTCATCGTGCTCTTCCGT	524	59.39
TCCTCATCGTGCTCTTCCGT	524	59.39
TCCTCATCGTGCTCTTCCGT	421	59.39
TCCTCATCGTGCTCTTCCGT	420	59.39
TCCTCATCGTGCTCTTCCGT	487	59.39
TCCTCATCGTGCTCTTCCGT	537	59.39
TCCTCATCGTGCTCTTCCGT	487	59.39
TCCTCATCGTGCTCTTCCGT	524	59.39
TCCTCATCGTGCTCTTCCGT	524	59.39
TCCTCATCGTGCTCTTCCGT	537	59.39
TCCTCATCGTGCTCTTCCGT	537	59.39
ATGCCTACTTATGCCTATTACTTATCAG	109	56.06
CAGAAGCTGCCACAGAAGAGG	1224	58.82
CACATTGCTCGTCTCATTGG	296	56.28
CGGTAACACAACCTCACAGCGGTA	60	60.91
CCGAAGCAGCCGATAAGGAA	457	61.12
CCGAAGCAGCCGATAAGGAA	555	61.12
CCGAAGCAGCCGATAAGGAA	555	61.12
CCGAAGCAGCCGATAAGGAA	495	61.12
TTGCTCATTGTCACTTGGAAC	2036	56.09
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TTGCTCATTGTCACTTGGAAC	450	56.09
TTGCTCATTGTCACTTGGAAC	378	56.09
GCTTGTATTCAACGATGGAGACA	407	57.87
GTTGGAGATGCTGCTGGAAG	553	57.07
CGCTGTTTCAAGTCTCCGAA	220	57.63
ATTGCCGCCGAAGGAGTAGA	536	60.66
TCTCTCAACCTACACATTCCG	71	57.79
CCAGACGAGACACCTCTTGATTG	165	59.74

ATTCTCCGTGGCGTTGAACA	938	60.07
CGGCTCACACAGAGCAGCTT	129	60.3
CGGCTCACACAGAGCAGCTT	326	60.3
AGTGCTGTGCGATGCGATGT	896	61.4
TTCCGGAAGCACTCTGCTTG	58	60.09
TGTCGCAATGGTGGATACGG	151	61.25
TTGAGCAAGACCAGAGTTATACTCG	239	57.88
TGTCGCAATGGTGGATACGG	151	61.25
CACTTCAGTCAAGACCACTCGCA	526	61.34
CCAATAAGCGAACAGGAACAAGC	51	60.88
ATGAGCTTCCGATTCAAGCA	106	57.11
ATCTTCAGAATGACGATCTCCTTC	293	56.69
GCGATTCTGCCACTTCAAC	323	59.27
GTTCAAGCATCACAATCACAGG	189	56.8
GTTCAAGCATCACAATCACAGG	332	56.8
GGCGAATGAATTGAAGGACAT	150	57.6
GATGAACAACAGCCAATTGAGGA	128	59.94
GATGAACAACAGCCAATTGAGGA	128	59.94
CAACTTCTATCAGGTCACACGCTT	610	58.51
GATATTGGCTTGCTGCATCC	474	56.87
AAGTGAGGCATTGGCTCTGTT	873	57.54
AAGAACTATCCAAGTTGTTGTCCAC	798	56.6
ATGAAGGTTGTCTGCAAGTGC	564	56.53
TCCGAGTAGGCCTCAAGAGAA	234	57.75
ACTTGTCTTCATTGTGTCTTATCTGG	480	56.75
TGGTGGAGGAGATGATGGAGAA	294	60.4
TGTTCAACTCCTGGCAGATGT	698	56.83
TTGGATTGGCATTGACAATTACTAC	101	58.07
AATACCAAGTTATCTCCGACACTGG	844	58.55
AATACCAAGTTATCTCCGACACTGG	854	58.55
AAGTTCGCTCATCGGAGGAC	864	57.93
AAGTTCGCTCATCGGAGGAC	962	57.93
AACGCCTCAATCTTACTGATATTCAC	601	57.96
TTGTTGTCCTTGACACAGGTTCC	281	59.88
CCAGATCAAGGATTCATCGTTG	261	58.12
GGACAACCAGTAGCACACATGA	214	57.19
GGATTGGTGCTTGGTGGCTT	735	60.82
GAATGCGAGAAGGAAGAACG	2714	56.24
AATTAACTATGCTGTCTGGTGGTT	57	56.99
ATCAGTACATCCTTGAGCAGGCA	576	59.74
AACCGAGCGTGAGACGAAGA	630	59.57
CGCCGAAGGAATAGAGCAGT	5551	58.17
TTGTGCTTAACGGACTGCTCT	5553	56.41
GTGATTCGCTCGTTCTGCTAC	1804	56.34

ACTGGCGAGCATTGGATGTC	613	59.66
AGATTCTATCTGCGTCTCTTGTCC	67	56.92
TTCCAGAAGAACTTGAATGCCA	61	58.42
AGGAGATGATGCTCTTCAATCAG	70	56.3
TTGAGTGTGCTGGAAGAATAGGA	1476	57.62
TCTCATTCCAGGATTGGCTGA	1714	59.21
TCAACAAGACGGATACAGAGCA	381	57.11
TTGAATGATCTCTCTGACACGATT	519	56.61
AATGCATATCATATCGATGACGTC	95	56.72
CCATCCAGGATCAAGGTTATGC	1064	59.27
CCATCCAGGATCAAGGTTATGC	1074	59.27
CTTCGAAGTGGTTGATTCTCG	371	56.17
AATTAATGATCAATCGGTGGTATAACC	442	58.52
GTACCATATGAGGATGTTCTGACTG	113	56.35
AAGTCAGCTACAAGAGGTTCCATCG	362	60.91
AAGTCAGCTACAAGAGGTTCCATCG	610	60.91
ATATGCGTTGGAAGGAGTCATG	371	57.69
CAAGACCTGAGTGCATGAAG	313	57.15
ATCGGATTCCAATACCAGATGT	340	56.05
ACGGTGCTTGCTGGAATGTC	743	59.7
TACGGCACCAAGTGAAGGCTCT	60	60.76
GGTAGTTAGGCACAGGTCAGCT	84	56.32
TTGTTGTCTGTCTCGAAGAAGCC	156	59.51
GGCTACCGCGCATACTCTCT	166	58.19
CCAAGCAACAGCGATACCAG	704	57.99
CCAAGCAACAGCGATACCAG	946	57.99
ACCACGATTGTGATGACGGA	296	58.37
TCTTGGTGGTGTGGACTTG	1219	58.29
GATACAGATGAACAATCCTCCGA	254	56.8
AAGAAGGCTGGAGAGACTACTGAA	273	56.73
ACAGCTTGTCATCAGCCGAT	23	60.61
CTTCAATGGAGCTGACACCAA	279	57.4
GCGGACAGTATTGGAAGCGT	146	58.8
TCTGCCAACAGTTACTAGTTCAGTTG	616	57.86
TATCACCAAGCCAGCCATTC	122	57.23
TTCTCAATGTGTGTGTGTGCAA	74	57.25
AAGTTGTGCAAGTGCTGTCTG	68	57.14
TGAGATCAATAATGGAATAATGTGGATG	34	60.12
GCACTACTGTCCTTGTGGCAAG	82	58.52
GTCGTTGTCGCCGTTGTCTTA	62	61.91
GCTTCTCTCCTACCACATTGCT	2098	56.38
TACAACGAGGCAGTGAACGC	478	58.52
TACAACGAGGCAGTGAACGC	478	58.52
CGATAACTGCCTTGTGTTGGT	1013	56.38

CCGATTATGTTGGTCTCCGA	1259	57.08
GAAGGACGTGTTGTCGCCAA	338	60.64
GGTGCTTCTCTTAGTTCTTGCC	374	58.75
GCTGATGCTGACAAGGATACTG	494	56.21
GCTGATGCTGACAAGGATACTG	486	56.21
GCTGATGCTGACAAGGATACTG	468	56.21
ACCACAACTGTCGTCGTCTCTT	317	57.44
AATATTCTCGTAATTGGTCAAGAGATC	213	56.43
AATATTCTCGTAATTGGTCAAGAGATC	157	56.43
GATGTTCTCGTTCGTTGCAGTGA	864	61.15
GCTCAACTCATCTCGTGGCA	99	58.55
GAACTATGGACGCTTGTACGC	3172	56.19
TGACAAGCACTTCAAGCGAGTC	58	59.26
TGTGGCTGGAAGTGTAGCTTCATC	539	61.44
TGAGCGAAGTGACATTGAGGA	866	58.03
GACAAGGCTCTATATGCTGAGACAG	740	57.49
TTGAGCGTGTCTGTTGGACAA	136	59.85
TTGAGCGTGTCTGTTGGACAA	123	59.85
TGGCACACAATAATTACCTGGA	197	56.69
AATTCTTGTGATCTTCGCCATT	39	56.51
AACCGAGGAGAAGGAGACGA	1235	57.51
AACAACCTGTAATCGATGCAGAGGAA	719	61.08
GTAGGCTCATCGGCAATGCT	426	58.9
TTGACAGACTATGTGGCAAGTAATACAG	628	58.81
AGTGGTGATGGTGGCAGTCT	76	56.57
GCACCAAGGACTCTCGTATGATG	572	59.61
GCACAACACCGTCGTCTTCA	737	59.3
GGAGCCGCTATCACTAATAATGAC	681	57.17
GGAGCCGCTATCACTAATAATGAC	706	57.17
GGAGCCGCTATCACTAATAATGAC	706	57.17
GCCAGGACAACCGAAGTTATCAG	387	60.79
GAAGTCACAAGTAGTGCGGTGA	64	56.62
ACCACCAACTCCAGCACAGA	1335	57.72
ACCACCAACTCCAGCACAGA	1362	57.72
ATTCCGCCATCGTCCACAGT	675	61.25
ATTCGTCATATTGTCACTGGAGGA	359	58.51
ATTCCGCCATCGTCCACAGT	675	61.25
ATTCCGCCATCGTCCACAGT	666	61.25
ATTCCGCCATCGTCCACAGT	675	61.25
ATTCCGCCATCGTCCACAGT	675	61.25
GTGCTCTTGGAAGTGGAGGA	102	56.46
ATTCGTCATATTGTCACTGGAGGA	359	58.51
AATGGAATGGATGATTGGAAGTGTT	772	60.58
CATCAACCACAACATTCAATGAGTA	1055	57.61

GCAGTTCGTTGTGCTGAAGC	58	58.25
TTAGCAGCACTTCTCTTCACCA	79	56.55
GTCATCACTGTCATCAATAACCAA	808	56.02
ATATTGCGGTCAATTTCGGATAC	289	56.7
CACTATCCTATGGAATGCTTGTGT	367	56.1
CACTATCCTATGGAATGCTTGTGT	423	56.1
CACTATCCTATGGAATGCTTGTGT	482	56.1
CCGCTCTATGTTCTCTCCA	22	56.55
GCGAAGATGGACTGCGAAGA	295	60.06
TTGACTAGACTAACTCACTCCTGCTT	36	56.06
CAATGCTGCTCTTGGTGATG	933	56.45
CAGAAGCTAAGGTTATCAAGATTGGA	342	58.17
GAGTTGTCTTCTGTGATGGAGGA	284	56.98
GAGTTGTCTTCTGTGATGGAGGA	401	56.98
GATTCGGAAGATGATGAAGACG	1108	57.35
GATTCGGAAGATGATGAAGACG	1108	57.35
CAGAGATGCTTCTTGATGGAGTT	115	56.37
TCTATGGAGAATGCGTAAGACGATAC	775	58.8
AGTGGCGTAAGAATGGAGATGC	26	59.22
TTAGCAATCAGAATCATCAATCAAGG	3050	59.5
AGAACCATTCTGGAACAATCACG	649	58.99
ATGTTATCTTCAGCGGAGGTGT	761	56.49
ATGTTATCTTCAGCGGAGGTGT	761	56.49
CAACGGCACTTGACTGACAG	62	56.46
TTGGTGGAATCGGCATCAGT	72	59.9
AGAGATTGGTGGAGAAGCAGAG	32	56.38
CCGATTAATGGAGGAATGCC	2202	57.93
AATAATGTCTCTGCCGAGGTGA	77	57.44
TGTGTCACATCACTGGTATCCG	315	57.95
TTGCCGCTATTGATTGCTGT	432	58
GCAGCAGATGAAGATAGAGTTGAC	1937	56.11
GCAGCAGATGAAGATAGAGTTGAC	2043	56.11
AACGACCAACTCCTTCTAACTCC	956	56.69
AACGACCAACTCCTTCTAACTCC	1062	56.69
GCAGCAGATGAAGATAGAGTTGAC	1155	56.11
AACGACCAACTCCTTCTAACTCC	956	56.69
AACGACCAACTCCTTCTAACTCC	1062	56.69
GCAGCAGATGAAGATAGAGTTGAC	1725	56.11
GCAGCAGATGAAGATAGAGTTGAC	2043	56.11
AGTGTCTCTCTTCCTTGCTCCT	82	58.67
TTCTCTGTCAACCTATTCACATTCC	68	57.42
ACGGAGACGCAGATTGTGTT	89	56.85
CCAATAATGATCGGAATACACAGTT	1010	57.18
GCCAATTCCTGTACTTCCGTCTA	613	58.33

CCAATACTGCCGGAGTACAATG	380	58.13
CCAATACTGCCGGAGTACAATG	451	58.13
GCCAACGTGACAGTGCTGAT	884	58.32
AGTGATTGCGCAATGTTAGCA	379	57.01
AGTGATTGCGCAATGTTAGCA	587	57.01
TTCACAATAACACAGAGACGA	169	56.18
CAGAGTCTGCGGAGTATGGC	1316	57.1
ATTGATAGCGGAAGCTGGAA	373	56.17
TTGAGATGTGCGGAGCCATGC	113	60.72
ATGTGCGTGCCTTCATTGATAC	786	58.59
CTGGCGAAGAAGATGCCACA	442	60.88
ATCGCCATCCTCAAGTACATCA	244	58.14
CGGAGACATCAAGGCTGACAAC	417	60.62
AGATGAATACTACGCCGAACCTG	230	56.36
TTCACAAGCCTCCGACACAC	472	58.29
TTGATGATGCTGTGGACCGT	91	58.52
GCGATGAATGCGATCAGGAA	1026	60.66
GCGATGAATGCGATCAGGAA	809	60.66
TGGAATAATTAGAAGATGAGCGTGGA	552	61.16
GCTGTGCGTCCTCATCCAAT	134	58.54
GCGAGGACCAAGAGAATCAAC	61	57.46
ATTGTCAGAGGAGCTGTGAAGC	662	57.29
ATTGTCAGAGGAGCTGTGAAGC	662	57.29
CACAGGTCCAGATGTTGGCTAT	1131	57.67
CACAGGTCCAGATGTTGGCTAT	1131	57.67
ATATTACACAGCTGATTAGTGATCAACA	1326	56.44
ATAGGCACCAATAGGACATCAAG	326	56.03
GTGAAGCATACATTGATACGCAGT	976	57.07
CGTCAGTCAGCATTCCAACA	287	56.82
CGTCAGTCAGCATTCCAACA	287	56.82
CCATCGCCACTGCTGTCAAG	393	61.35
CCATCGCCACTGCTGTCAAG	482	61.35
CGAGGCAATTAAGAAGAAGAGAGA	446	57.25
GGCCAGTATTGCAACGAATG	880	57.71
GCTCTGATGATTGCCTATTCACA	2982	57.96
GCTCTGATGATTGCCTATTCACA	2361	57.96
GCTCTGATGATTGCCTATTCACA	2086	57.96
GCCGAGGTGCGAAGTAGTGG	6026	61.65
GCCGAGGTGCGAAGTAGTGG	3274	61.65
GCCGAGGTGCGAAGTAGTGG	3282	61.65
TTCTTCGCCAACACTTATCCACT	41	58.8
AACCTTCGACACTGTACGACAAC	215	60.3
TGCTCCAATGCCAGTTCCAGT	156	61.52
CGGTTGCTCAGATTCTACTCG	91	56.35

GAAGGATTCAGTGA CTGCAA	831	56.6
GAAGGATTCAGTGA CTGCAA	831	56.6
ATGTCTCAGAACGTGAAGCACA	22	57.07
GCCGTCGTTACCTTCCTTGA	186	58.77
GAACAAGATGCTGAGCCACAC	339	56.99
GGAGAGGAGATGAGTGCGGTT	160	59.28
GGACTTGATGGCTCTGTTCG	318	56.91
ACTTGTGAGACTTGATGATAATGGAT	335	56.12
ACTTGTGAGACTTGATGATAATGGAT	372	56.12
CTACATTCACACAACAACCAACG	108	56.78
ACTTGTGAGACTTGATGATAATGGAT	335	56.12
ACTTGTGAGACTTGATGATAATGGAT	372	56.12
ATCGGAGGAGCATCTGATAAGC	1375	58.44
ATACAGAGGCACACGGAGGATAC	719	58.17
ATACAGAGGCACACGGAGGATAC	760	58.17
ATACAGAGGCACACGGAGGATAC	763	58.17
AAGAAGGCACACGATCCATG	2173	57.2
AAGAAGGCACACGATCCATG	2158	57.2
CCGCCGTTGTCAATTCTGTT	2615	59.56
CCGCCGTTGTCAATTCTGTT	2619	59.56
CCGCCGTTGTCAATTCTGTT	2644	59.56
CACACCGATTAGTCGTATTCTAACTTCT	46	58.45
AAGTGTATCAATAGAAGTGCAATGGA	194	57.14
TTGTTAATTATTGCACCATTCAG	847	56.91
TTGTTAATTATTGCACCATTCAG	847	56.91
ATGCGGATATCGTATTCTATACAAGA	314	56.38
ATGGTTCTTGTTCACTTGAC	319	56.65
TTGAGAATAGAGCGATGGAAGT	2075	57.28
GGTTATTACTCCTTGTTGGCAGCTAC	68	58.4
GGTTATTACTCCTTGTTGGCAGCTAC	55	58.4
GGTTATTACTCCTTGTTGGCAGCTAC	47	58.4
GCAGATCGCCTTATTCAGAAAGT	421	56.43
GGCTTATCATGTTTCGTCGGA	101	57.23
GGCTTATCATGTTTCGTCGGA	47	57.23
GATACCAACTACGGAGTGAAGTCTGAA	874	59.93
TGAGAACAAACGTTGGCGGTA	25	58.77
ATGCTCCAATGATAATGATGACG	112	57.59
CGAATGGAGAAGTTGGAGACG	330	58.38
CGAGATATGGAGCCGACGGA	447	61.95
AAGTGTTACCGAGGATGATATGG	842	60.06
CGCTGGACACATGAAGGTCAC	489	60.13
CGCTGGACACATGAAGGTCAC	540	60.13
TCAACGATGCGAGAAGGATG	148	58.39
CAGATTCGGCGACTATGTCAC	1058	56.91

GCGGCGGACTATTATGCTTG	651	59.3
AGACGAAGCAATCGAAGATAACAG	90	57.82
CGTATGAGCAACTATGAATGAGAAG	102	56.12
GGACCAGCGACTATATCTCTCAGTGA	694	60.9
GCTCTCGCTTGCTCGAACTC	2725	59.05
GATGTACGCCAACGCACTTG	436	58.79
AAGAGTTGCCTTCATTGCCACT	80	58.89
GCACAATATCCAGTTCCGACA	93	57.15
GATCTCTCTGTCCGCACCAA	87	57.39
GTTCTAATGGTCATACTGAATATTGCAC	325	57.43
CCAGGAGGAACAAGAAGCAG	115	56.18
GGTGCCAACAACCTCCACAA	657	58.05
AAGTCATCATTCTGGATCCGATA	656	56.32
ATGGTTCTGATGATTCTTCCTGA	1143	56.39
CCAGACTCAGACTGTTCTAGCCAA	1211	58.71
ATACTGCTGCTTCCTTCATTCTG	678	57.29
CAAGTGAATGGAGAATGCGAA	2085	57.43
CACATGGAACCTGCATATGTTGATG	238	60.11
AGCATTAGAGGAAGAACTGAAGCAA	359	58.8
AATGGCATTTCGATCCAACATG	74	59.23
GCTATTCCTTCAAGACTCACTGATC	862	56.51
AAGGTGATAGAGGAGATTATAAGAGTGC	825	57.09
CGTTACTTCTGACGAAGACGATGAAC	248	61.25
CATTGGATACTGTTGGACGATTG	470	57.98
TTGCGAATTCTGCCAAGTTG	205	58.5
CGATATGTTGCTTCTCCAGTTCT	103	56.36
TTCGTTGGATATGACAACTCTTACTATC	351	57.22
GCATTGGCATTGACATTGGC	1096	60.82
TTGGAATGGCACTGACTACTACA	95	56.12
AATGGTGCTGGTTCGTGTGAT	482	57.45
AACAAGGAGAGGTGGTGAAGC	1054	56.98
GCGGCAGTCACACGTAGTGT	75	58.4
GCGGCAGTCACACGTAGTGT	107	58.4
AATCCGAGTTCTGTCCTAATGC	1602	56.14
AATCCGAGTTCTGTCCTAATGC	1602	56.14
AACCGCTTCTTGGCTCTTAGTCG	49	61.9
AACCGCTTCTTGGCTCTTAGTCG	109	61.9
CCAGTTCATTCTATTGATCTCCATC	36	56.91
CTCAGTCAACCAATGGCAGGAA	767	60.97
TGTGAAGCAAGGTTAGAAGCTAGAAG	378	58.56
TGAGATATGGATTCATCAAGGAGCT	742	59.12
TGTGAAGCAAGGTTAGAAGCTAGAAG	183	58.56
GCAAGTTGTACCAACAATGATGA	600	56.35
GCAAGTTGTACCAACAATGATGA	600	56.35

GCAAGTTGTACCAACAATGATGA	542	56.35
TCTTCAGAACGGAGCATCTCAA	223	58.66
TCTTCAGAACGGAGCATCTCAA	234	58.66
TTGAGAAGAGTGGCGAATAAGG	66	57.27
TGAGGAACACCGAGATGAAGA	45	56.9
AGAATCAACGCTCCAGACTACAAGG	129	60.91
ATCTCGGCCATCGTCTCCAT	134	60.4
AAGAGGATCCATTGAGAAGAATGG	224	58.63
AGACAGCAGATGCACCACGA	173	59
CAATGCCACCAGCTCCAAGA	454	60.74
CTGCTCAGAGTTGGTTGGTCA	2096	57.53
TTGCTTATGTCGTTGTACTGCTTG	358	58.2
TTGCTTATGTCGTTGTACTGCTTG	310	58.2
CGTGGAACATAATCGTAACGCACA	306	60.85
AAGCGAGTGATGAAGAGAGAAGA	1752	56.25
AACACCATCCACAACACCTCTT	444	57.03
ATCAACATCAAGAACTTCTCACAGAA	83	57.24
ATCAACATCAAGAACTTCTCACAGAA	83	57.24
GCCACAGAGCAACAGCAAGA	198	58.76
TTGATCAGAGAAGATATTGAACCG	855	56.27
ATGGAAGATTGTCGGTGTGG	942	56.88
GCTGCTTCTCCAGGACTGCTG	79	61.18
AGTCTGTGTAAGAGCGTTAACAACA	187	56.19
GCTGCTTCTCCAGGACTGCTG	108	61.18
CCGTGTGGCACACAGTACCTC	84	60.05
AATGTTGATACAAGGTACAAGGCTGCT	84	61.27
ATCGTCATTCTCGCACACACA	43	58.74
GAGAGAGTCTTGTTCTGCATTGCTC	97	59.68
TCGTTGATGTTGGAGCAGATG	39	58.31
GACACATGGCAAGCAAGCAA	1213	59.43
CCAGATGTCGCCAGTAAGCC	536	59.29
CGAGAATACGAAGAGATAATGAAGATG	846	57.77
AGCATACTTGGCAGCAGATGA	1036	57.21
AATACAGTCTGGAAGGAGTTGATCC	555	57.81
GGCTTGCTCAACACAAGTTCTG	235	58.63
CCGTCGTGGCTTGATCTACC	488	59.14
GATGGTTCTCGCTCTTATTACTCTTG	229	57.86
AATCCGCTGAAGGTGTCTACG	1447	57.95
AATCCGCTGAAGGTGTCTACG	1447	57.95
CGTCCTCCGACACTTCTCAA	1743	57.45
CGTCCTCCGACACTTCTCAA	1645	57.45
CGTCCTCCGACACTTCTCAA	1749	57.45
CGTCCTCCGACACTTCTCAA	1651	57.45
GTGATATTCACATGGACGTTGGAGT	948	59.99

CGTTAGCGGAAGACGATTCTG	72	59.43
CAGTGATCCAAGGCGTGCTC	84	60.37
GTGATATTCACATGGACGTTGGAGT	1039	59.99
GTGATATTCACATGGACGTTGGAGT	958	59.99
CTCCGCGAGTCTTGTTGGCT	127	61.41
CGTCAAGGCCAAGATTCAAG	327	57.02
CGTCAAGGCCAAGATTCAAG	505	57.02
CGTCAAGGCCAAGATTCAAG	327	57.02
CGTCAAGGCCAAGATTCAAG	505	57.02
TTCGTTATTCTGCTTCGTT	1306	56.83
CAATGTACTGCTGACAGATGCC	1667	56.98
CAATGTACTGCTGACAGATGCC	1351	56.98
CAATGTACTGCTGACAGATGCC	1166	56.98
CAATGTACTGCTGACAGATGCC	1349	56.98
AATGGACCACCAGGAGGAATG	1624	59.63
CACATGGAGATATTGCTGAGTGC	464	58.34
AATGGACCACCAGGAGGAATG	753	59.63
GAGGCAATGGCTGCTATTCTG	780	59.4
GAGTGGTCCAGTCCGGTAGG	536	58.04
GAGTGGTCCAGTCCGGTAGG	269	58.04
AAGCCGAACAAGTGACGCAT	1081	59.33
AAGCCGAACAAGTGACGCAT	1081	59.33
AAGCCGAACAAGTGACGCAT	1060	59.33
AAGCCGAACAAGTGACGCAT	1081	59.33
AAGCCGAACAAGTGACGCAT	1081	59.33
GCCGACGCTGTTACTGAAGA	1121	57.72
CGATGTCAGAATCTATGTGCTGGTTA	696	60.34
TTAACGTCGTCGTCCACATG	45	56.65
AACTGCGTCCACGATTGCTT	366	59.33
ATGTGACGGAATCTACGATGTGA	847	58.06
AACTGCGTCCACGATTGCTT	96	59.33
ATGTGACGGAATCTACGATGTGA	857	58.06
ATGTGACGGAATCTACGATGTGA	855	58.06
TGCAGGTCTTACTGCTTCTGC	493	57
GCTGATGGAGTTACTACGATTATGG	284	57.1
CTGGAGAGAGTTGAAGAGATTGC	1802	56.1
GTTACCGAAGCATCAGGACAA	329	56.44
TACACATTCAACGGATTAGCACA	44	56.9
GGATCTCGTAGTCAACAAGTTCCA	149	58.31
GGATCTCGTAGTCAACAAGTTCCA	167	58.31
AACAATAATGGAGAGAACGACGGA	913	59.84
ATCATCTTCCACACCGCCAT	145	58.81
ATCATCTTCCACACCGCCAT	145	58.81
CTATGATGATGCTGATGATATTGACA	3526	56.91

CGACACTGGCTCAAGCTATAATTCC	722	61.17
GAGAAGAAGTGGAGAAGTGGTTGA	1224	57.69
TCACTGTGTAATTGATGGAACTAATGC	322	59.37
AAGAAGATACTGAGCCAATGTCG	680	56.36
TTGAATAACCGATTGGCACGA	216	59.9
ACCTCGTGATGCCAACAAGT	317	56.69
TTATATCTACGAGAAGAAGACTCAGGAA	2387	56.52
TTATATCTACGAGAAGAAGACTCAGGAA	2136	56.52
GATTGAAGAGAGCAGCGGAA	267	56.83
CATTATTGGATCTCATGGATTCTGTG	918	60.35
CGGTCAACTTATCAATGCTTCG	297	58.38
CATCAGCCATATCGACAACTTCT	965	57.02
TGAATGAGAATAAGTTGAGCACCA	778	57.57
CACTGACAAGCTGTTCGTGTG	119	56.55
AGGCGTTGAGGCAGATGTTC	862	58.88
GAGCATGCAGGCAATTCAGT	662	57.5
ATATTATTCACGGCTGTGTGTGC	107	57.71
GGAATTGAAGCTCGGCCATG	1022	61.4
CGAATATTGCGAGTGGTGAATC	27	58.2
TTCGTACTTCACAGTCGCCAA	1299	58.03
CGAATATTGCGAGTGGTGAATC	27	58.2
TCATGTGCCGAAGCGGTAGA	711	61.27
GAAGCAAGAACAATGTCACAAGCA	476	60.27
GAAGCAAGAACAATGTCACAAGCA	993	60.27
GGCACCACCATCATCATCAC	369	58.15
GGCACCACCATCATCATCAC	886	58.15
CTGCTGACGGTGTGCATGTG	57	60.92
GATAGACTATGGAGACGCAATATCAGTT	1048	58.37
GATAGACTATGGAGACGCAATATCAGTT	1048	58.37
TCGGCTACGGATGATGATGA	7587	58.62
TCGGCTACGGATGATGATGA	431	58.62
TTGGAAGGATACTAATGTAGAACAGGAA	80	58.68
AAGAAGAAGACGTTGTTGTAGAAGAATG	76	58.63
GGTGGTGGTGTGATGGTGTGC	1604	60.63
AGCATAAGCGTCAATTGCATGG	71	60.92
ACAACAATGACAACAATGATCGGTT	30	60.35
CATATTGTTGAATTATGGTGGTGTAGG	124	58.63
GCACAAGCCACACGAACACA	711	60.33
CGCGCACTCTTATAAGCCTATC	88	57.08
CAGTTGCCTGTTGACAATGG	479	56.19
AGCAACCGCACTGAAGTAGC	72	56.86
CAACACAACAGCAGAAGAATATGG	3286	57.51
GTCACCTCCAACATCGGAAGC	916	60.45
GTCACCTCCAACATCGGAAGC	916	60.45

CCAACATGTACACGAACGGATG	997	59.74
CGAGAGTGAACCTCGACGAGACAA	41	60.54
GTCTGTCGTCTGCAACGGAGA	218	60.01
TCACAACAACGACCTCTCACTT	177	56.03
GCTACTTCAGTGCGGTTGCT	149	56.86
GAACAACCTACATTCTGGCTGTCAC	128	56.61
GTTCAATTGTGAATGTTGGCGAGT	40	59.87
AACACTTACCGTCTACGATGAGG	48	56.17
CGCTGAGATTGAAGGAGGTG	47	57.07
TTCTTCCAGGCTCTTCAGATCC	470	58.53
TGAAGATGAATGGAGAGAGTACCTGA	128	59.28
TGAAGATGAATGGAGAGAGTACCTGA	128	59.28
AATGGAGAAGACGAAGAGAGTTGTGG	1826	61.98
AATGGAGAAGACGAAGAGAGTTGTGG	1840	61.98
TTAGATCGCTTCATGAGTTTCGC	63	58.22
GGTAGAGATGCCAACTGCGA	70	57.51
AATGAATACTGAGACTGTTGCTGAA	63	56.03
ATATGACTATGATTCGGATGACTCAC	39	56.43
GCAGATGTTGGAAGTCACTGAA	528	56.52
GTGAACAAGACCGCCTCGTG	384	60.26
AAGCAGATGACCGCCTCCAA	253	61.61
AAGCAGATGACCGCCTCCAA	213	61.61
AAGCAGATGACCGCCTCCAA	210	61.61
CATATCGTGGATCTCGTCAAGA	796	56.39
CATATCGTGGATCTCGTCAAGA	802	56.39
CGAGATGGTTGGCTCACTAAC	834	56.04
TCAGAAAGAGGATGGCGTGTC	30	57.39
TGAGCAGAATCTCAAGGAGCA	554	57.37
TGAGCAGAATCTCAAGGAGCA	554	57.37
CCTTCAACCAGCAACCATAACG	28	60.33
CAACAACATTCGTCCATCTTACAG	277	57.37
GCACTCAACGTATACAATCGACTT	576	56.29
GCACTCAACGTATACAATCGACTT	228	56.29
GCACTCAACGTATACAATCGACTT	502	56.29
AATGTTATGAAGATGTGTTTCGCAA	157	57.4
TGGAGATTCAACTGGATGGC	482	57.1
CAACAACATTCGTCCATCTTACAG	277	57.37
CTCCTGTCATCAGTCATCAGTCG	633	58.41
ACTTCTTGGTTGTTGTCACTGGA	1666	57.36
ACTTCTTGGTTGTTGTCACTGGA	1779	57.36
ACTTCTTGGTTGTTGTCACTGGA	1973	57.36
ACTTCTTGGTTGTTGTCACTGGA	1613	57.36
ACTTCTTGGTTGTTGTCACTGGA	1654	57.36
ACTTCTTGGTTGTTGTCACTGGA	2688	57.36

GAGCAGGAGCGTTGTATTACCATC	333	59.98
GAGCAGGAGCGTTGTATTACCATC	333	59.98
GAGCAGGAGCGTTGTATTACCATC	255	59.98
GAGCAGGAGCGTTGTATTACCATC	250	59.98
GAGCAGGAGCGTTGTATTACCATC	286	59.98
GAGCAGGAGCGTTGTATTACCATC	255	59.98
GAGCAGGAGCGTTGTATTACCATC	208	59.98
GATTCTCCATCTTCTCTAGTTGCC	72	56.44
TCGGAGGCAGAATCATAAGTTG	84	57.95
GCATACACACAAGGAGATGAGC	184	56.05
CCAGACTCGGAGTATCCTGAATG	459	58.72
TATGCTCTCTGGTCGTGTGC	103	56.01
TTCAGAGCATAATGGCGGAA	91	57.92
GGCACAGAGTTGCAGTTGATTG	26	59.37
TGGAACATCTTCTGCTTATGTTGT	273	56.66
GGATCAAGAGAGCGGAACGT	46	57.93
CTCATCATAGTCCATCATCACCA	43	56.09
CGGATGGTGTATACTGCGAA	408	57.27
CGGATGGTGTATACTGCGAA	428	57.27
AACACACATGAACACGATAATTGG	84	57.48
CGCCTGATGTGACTCGCTTA	51	58.62
ATTATTGAGAAGACACACAAGTCAGAGT	491	56.94
TGTAAGGATAGACGGATCGGAT	29	56.34
TAGTAGGCACCGAGACAAGAGAA	50	56.97
GGAAGACGGATTGTACGGAA	586	56.21
GGAAGACGGATTGTACGGAA	586	56.21
GGAAGACGGATTGTACGGAA	1086	56.21
AAGATTCTGCTGCCGAAGGAG	1409	59.57
GCTCATTGGACTGGAGACAGA	970	56.48
AAGATTCTGCTGCCGAAGGAG	1463	59.57
AAGATTCTGCTGCCGAAGGAG	430	59.57
AAGATTCTGCTGCCGAAGGAG	325	59.57
GTAACAAGACCGTGGAAGGAATG	408	58.54
GCTCATTGGACTGGAGACAGA	1038	56.48
AAGATTCTGCTGCCGAAGGAG	694	59.57
AAGATTCTGCTGCCGAAGGAG	697	59.57
AAGATTCTGCTGCCGAAGGAG	628	59.57
AAGATTCTGCTGCCGAAGGAG	1531	59.57
ACGTTGCCTATGGAGCTGGAG	436	60.22
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ATGCGTATGGTCGGTGAGAA	20	57.63
GTAACAAGACCGTGGAAGGAATG	309	58.54
ATGCGTATGGTCGGTGAGAA	20	57.63
ATGCGTATGGTCGGTGAGAA	20	57.63

TTCAGAGGCAGTTGGATCGG	1169	59.77
TATGGAAGAAGAAGTTGAGGAAGATG	1442	58.1
TCAGTTCTTCTCGTCGGAGTCAT	143	58.98
CACTTCTCCAACCGCTATAACAC	181	56.68
TTCAACTTCCTGTTCTACACGATG	95	57.13
CAGAAGCGTGCTACAATGTCTC	533	56.43
ATCACGAGCAAGTCTACGCAA	1059	57.27
ATCACGAGCAAGTCTACGCAA	1129	57.27
GACAGAGATGAATGGTCTATGTGGAG	387	59.06
GACGAATTATTGTGTGATGCTGTC	240	57.32
GACGAATTATTGTGTGATGCTGTC	109	57.32
AAGACGGTCGAGGTTAGATACAG	70	59.66
CTGTTCAAGTTGTGAGCCTAGGTCTA	35	57.86
AACTCTTCTTGCCTTCATCCTCA	72	58.14
AACCACCACCTCTCGATAAGAAC	41	57.34
GACAAGTAGCTCGACACGGTAAG	49	56.91
GCACGTCTAGAAGCAGCTCGATT	39	60.96
GCGGTTCAAGTATGCCTTCTCA	44	58.93
GGCGGCTAAGTGTCTGTGTT	54	56.55
AGGTCCAGCCACAACAGCAG	618	59.87
AGTTACCTGGCGACGTTGGC	65	61
GTCAACAACAACACAGTGCCAA	83	58.18
ACAGGATGTGAGCTTGACTCG	49	56.58
GAGGTCCTTCCGTCATCATCG	168	60.41
TTCTGATGCTCTCTGATTGCC	162	56.69
TCAACAACCTCAAGAAGAAGAAGA	38	56.85
AAGAGGAGTTGATGGTATTCGC	543	56.14
GGTTGGAAGTATGGAATTCGTGT	431	59.57
GAAGCTAGAAGAGTTGAGAGACTTGC	515	57.52
GGCAATCAATCAACTTCAAGCATA	179	59.14
CACTCAATTAACCTATAACAATCCTGGA	31	58.88
CCAGATGGAATGATATCTACAACAGA	590	57.35
TTATTGCCATGAATCTGCATCC	250	58.51
GCTCGCATTGATTGAAGAGTG	583	57.18
GGACTACATATTGATCCAGATATTGC	374	56.12
ATTGCTCTTGTTGGATTCTCTG	1052	58.39
TGATGATGATTACGATGATACTGGA	727	57.17
GCCTCAAGGATGGATGGTGT	849	58.39
AACTCCTTGCGGATTCTGCT	331	57.62
AACTCCTTGCGGATTCTGCT	221	57.62
AACTCCTTGCGGATTCTGCT	179	57.62
TTCGCTCTTCGGATGATGTG	4783	58.39
GATGAAGCTCAACCAGAACAATTACTTC	529	60.62
TGAACACCACTATGCCACAGG	508	58.09

GTGATGAGAATGGCAACAGAACT	680	56.96
GCTGAAGACGACGAGGAGGA	260	59.12
AAGATGCGGCGACAGGAGAA	4617	61.74
AAGATGCGGCGACAGGAGAA	4364	61.74
AAGATGCGGCGACAGGAGAA	287	61.74
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AACAATGCTGGTTATGGTTATGG	942	56.69
AAGCGAGAGCACGATAATGACG	28	60.35
AACAATGCTGGTTATGGTTATGG	878	56.69
AACAATGCTGGTTATGGTTATGG	902	56.69
AAGCGAGAGCACGATAATGACG	28	60.35
AAGCGAGAGCACGATAATGACG	88	60.35
AACCAGCCTGTCTCACAATGC	49	58.8
GAAGAACTGCGAATAGAGGATGC	327	58.18
TGGCTGATGATAACTTACTCTCG	25	57.13
GCAACGGTTATCATATCCATTGG	743	59.09
TCGGCTATGGAACTGCTGAA	808	58.06
AGACGATACTGCCGTTGCTG	145	57.59
ATGTCTCTGCTGTATGGTATGTTCC	367	57.33
TTGATGAACGAAGACGATGGA	216	57.74
CTGGCGGAACTACTCGGATG	1995	59.28
CTGGCGGAACTACTCGGATG	2088	59.28
CTGGCGGAACTACTCGGATG	2085	59.28
CTGGCGGAACTACTCGGATG	2082	59.28
CTGGCGGAACTACTCGGATG	2055	59.28
GCAACAGGCATTGCTGGATT	225	59.67
CTAGTCAAGCTGACAAGTTCTCCTG	978	57.63
CAGTTGTGTCTGTGCTGTCTAGGA	531	58.19
AAGCCGAAGTTGAGGAGGAA	285	57.59
GCCTTCTACTCGTCACCAACCA	55	60.12
CGAGTCATACGCCTTCAACC	1653	56.89
CGAGTCATACGCCTTCAACC	1653	56.89
AAGCATTCACCTCAACATACTGG	98	56.94
CATCGCCATCGTTGTGCTGT	260	61.62
TGGAGATAAGGAGCAGAAGATCG	565	58.61
CGGATAAGAACGATTGAGAGCCT	581	59.71
ATTCTTCTATCTACCGCCATTCG	222	57.54
GAATCTACAGGCAATACCGTCAG	237	56.62
GAATCTACAGGCAATACCGTCAG	237	56.62
ATTCTTCTATCTACCGCCATTCG	311	57.54
ATTGAGAGATGCCGCTAGCG	528	59.17
GTGATGAGGTAGTGGTGGTGGT	91	57.35
CATTCCAGAGGTCGACCACCA	25	61.8
CGTAGTGTGCTTCGGCTTCT	75	56.86

TTAGTAAGATCAGTGTACGGAAGAGTG	161	56.29
CGACGGATCATCTAATCACAGTT	475	56.88
GCAATATCCAGCCATGAAGAAC	451	57.32
TTGTGCCAAGCAATGTCTATTCTG	98	60.93
CATTGGTTGATAGTGGCAGGATA	515	57.64
GGCAGTCTGAGTCATTGGAAGA	34	57.99
ACACTGGACACTGGAATCAACG	699	58.57
ACACTGGACACTGGAATCAACG	175	58.57
TTAACACCACGCCTGCTTGT	2340	57.89
TTAACACCACGCCTGCTTGT	974	57.89
TGTGCCAAGAAGAAGTCGGA	163	58.02
CGCATCGCTGACTGGTGATC	37	61.34
ACACTGGACACTGGAATCAACG	699	58.57
ACACTGGACACTGGAATCAACG	175	58.57
TGTGCCAAGAAGAAGTCGGA	163	58.02
AAGAAGAGATGATGGATGTTAGCG	2268	57.64
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ACACTGGACACTGGAATCAACG	175	58.57
ACACTGGACACTGGAATCAACG	175	58.57
TGTGCCAAGAAGAAGTCGGA	163	58.02
TGTGCCAAGAAGAAGTCGGA	163	58.02
CGCATCGCTGACTGGTGATC	37	61.34
TTATTCATATTCGCCGTTCTCC	40	56.95
CAGGTTGGAGCATTGTTTCATC	450	56.72
GTTGCCATCGCTGTCATTAGAAG	386	59.74
ACGGTGGAACCTTATCAATGCTT	61	56.46
ACGGTGGAACCTTATCAATGCTT	85	56.46
GGAGGAAGTCTGAGCGGAGT	278	57.11
ACTGTACGACATACGATTCTACTCTAGG	104	56.68
CGGATGTCATCAGAGATGCTG	295	57.85
CTAAGACAGGATTCGGAGAAGCCA	607	61.75
AGAGCGGTTCTTCACACGAA	1168	57.13
CGCCAAGGAACACGAGAAGT	1177	58.92
AACTCGACATGTGGATTGCAGA	249	59.19
CCACAACACTCCTCAATCTGTTC	102	57.31
AACTCGACATGTGGATTGCAGA	249	59.19
ATAAGGTTGATGGTGTACTTCGGA	306	57.67
TGTATCCAATATCTGATAATATCGCATT	899	57.34
GCTCAGTGTGCAAGAAGGAAC	947	56.25
AATACGGAGCAGAAGATAAGCGA	1989	58.25
AATACGGAGCAGAAGATAAGCGA	1989	58.25
CACTTAACATGGCAACCTGCTGTAC	697	60.74
CGAGTGCGATTGGAGTGAG	1293	60.36
GGAATTACCAACAAGAATTATACACAAC	136	56.69

ATTGTGAGCTACTTCGCTCTCG	73	57.54
ATGGAGCGATACGAGAGTGC	84	56.57
AACAACAGGAAGATGGTGATGAAC	118	58.05
AAGGTGATTGTGGAAGTAGTTGG	718	56
AAGGTGATTGTGGAAGTAGTTGG	670	56
TCTGAAGGTCTAGGAGGCGAT	206	56.72
AATGATGTGGAAGTTGCTGTGA	704	56.8
ACGTACACCGGACAAGGACCA	105	61.16
TAATCCGACTATCAGAGCAATGG	290	57.06
TAATCCGACTATCAGAGCAATGG	290	57.06
TTCACCACCTTCTTCTCCGA	171	56.89
TTCACCACCTTCTTCTCCGA	173	56.89
GATGCTTCTCGCTCGTCTTGC	176	61.12
GATGCTTCTCGCTCGTCTTGC	262	61.12
GATGCTTCTCGCTCGTCTTGC	292	61.12
CACATCACACAGTGCGGAGGT	69	60.6
GAAGTAGAAGAGGCATTGAGGCGTA	60	60.97
CGAGTGACACCGACACGATG	64	59.72
AATACGAGTCCTTCTTCTCATCGG	51	58.81
ATGAAGATGGAAGTAGAGGATGGTATG	153	58.9
ATGAAGATGGAAGTAGAGGATGGTATG	153	58.9
GCGGTAATGATGAGCAGTCTG	63	57.06
GAGGCGTTGGAGGCTGAGAC	340	60.88
GAGGCGTTGGAGGCTGAGAC	413	60.88
AAGCCACAACCTCAGTAAGCTCATG	2177	58.64
TGGAACAGGACCAGATGAGG	107	57.07
GCAGTGCAAGTGATACAATCAAGGA	88	60.13
GGATGTACAATGGAATGTATGGTG	244	56.82
CATTCATAGTGCCTTCAGTGTC	568	56.53
CATTCATAGTGCCTTCAGTGTC	942	56.53
AACCAGTAGAGGCAGAAGAGGAA	5308	57.37
ATTCGCCGTCCTCTCGCTAT	74	59.79
ATTCGCCGTCCTCTCGCTAT	197	59.79
TGTCCAATGCTCCAATGCTC	58	58.24
TGTCCAATGCTCCAATGCTC	30	58.24
TTCTCCTTCTCCTCATGCTGCT	29	59.2
TTCTCCTTCTCCTCATGCTGCT	29	59.2
CGTGTGGATGCGAGTGATGA	431	60.25
AACTGCGTATGGCGGAGAT	35	59.17
AATCAATTGCGTATGGCGGAA	33	61.09
TAACCTGCCACGATTGCTCA	334	56.57
CTTCATTCCGATTCCGCTGT	1474	58.73
TGTGCCAGTGACAATATGAAGG	98	57.23
TCTCCATCTTCTTCTACCTCTGCTC	293	58.37

TCTCCATCTTCTTCTACCTCTGCTC	305	58.37
TCTCCATCTTCTTCTACCTCTGCTC	293	58.37
TCTCCATCTTCTTCTACCTCTGCTC	305	58.37
GCAACAAGGATACTCTGACTACTCAG	56	56.67
CTCCTGCCAAGTATCCGTTCA	699	58.78
CGATACTTCTGCGATGCTGAG	104	57.36
CTCCTGCCAAGTATCCGTTCA	738	58.78
GTGGCTGACTGCTGCTGAAG	226	58.35
CTCCTGCCAAGTATCCGTTCA	832	58.78
TGCTGGACACAACCTCTGGAA	67	56.35
GTCATGCGTGTGAGACGATACAG	84	59.27
TGGAACCATCGGACGTAGTAC	188	56.16
GAGAGGCGAAGCGTGGAGAT	505	60.45
TTCTACTGATGATGAAGCCAGATC	1162	56.29
TTCTACTGATGATGAAGCCAGATC	566	56.29
TTGCTTCGGTATTGAGAAGTCG	426	58.13
TTGCTTCGGTATTGAGAAGTCG	474	58.13
AACGACGATGGACTTATCAGACA	547	57.36
AGCTCAGCAGCTAATCCATCA	1565	56.43
GCGAGAATCATGCGAATACAG	434	57.09
CGAGAGAAGAAGAACGAAGGC	217	57.05
CGAGAGAAGAAGAACGAAGGC	194	57.05
AATTGAAGGAATCTTAAGGTGCAA	106	57.17
AACCTTCACAATGGCTTGCA	67	57.81
AATATTACACCTTGAAGGAAGTCACA	1785	56.29
GGCTAGCACTGAAGTCATCGG	380	58.55
GCTCCACTCACTGACAAGGAA	299	56.55
ATCAGAGTTCCAGAAGGTCAATG	1069	56.07
ATCAGAGTTCCAGAAGGTCAATG	1015	56.07
GAAGGACGCCGATGTGGATT	301	60.79
AACGAGAAGACTGCCTGGATT	2078	56.63
CACAGATGACTACTACTCGGCAAC	45	56.79
AATTATTGCACTGCTCATTCTGAA	686	56.84
CAGCCAAGAAGGATCAATTGG	1291	58.24
CAGCCAAGAAGGATCAATTGG	1294	58.24
TTGTGATGATTGTGAATGTCAGAGA	242	58.23
ATTATTCTGTTCTGGAGTTACTAGTGCA	185	57.08
ATGTGCTAAGCGGCCAAGTAC	479	58.03
GTGTTGATGTGATGCTTACGGCTA	1035	60.02
TTAGTTGATGAAGGAATGCGGAA	105	59.56
GGATAGATATGGACGATATTATTGGTT	1277	56.09
GGATAGATATGGACGATATTATTGGTT	1277	56.09
GGATAGATATGGACGATATTATTGGTT	1277	56.09
GAGTCGGAAGCGTCAGATGT	1928	56.49

GAGTCGGAAGCGTCAGATGT	809	56.49
GAGTCGGAAGCGTCAGATGT	1223	56.49
GAGTCGGAAGCGTCAGATGT	932	56.49
TATGTCTCCAATCTTCTACCGTCTT	958	56.38
GGATAGATATGGACGATATTATTGGTT	1277	56.09
TATGAGCACACCATTTCAGGAACC	290	59.83
GGATAGATATGGACGATATTATTGGTT	1277	56.09
CGATGATGACCGACAGGATG	247	58.47
GCCAGATTCGTGAAGGATGT	356	56.23
CCAGACAACCAATTATTGACGATT	547	58
TTCTCCGACCACAATCCAAG	979	57.17
ATTGTGAGAGAAGATTTCGGCTGA	369	58.97
GGTCGTTCAATCCACCAACA	75	57.83
ATTCGCCGCTATTCTCTCA	301	58.49
GGTGCTGCGTTCCTCACTCA	179	60.96
AAGTCAACGGATGCATAATGAGA	612	57.39
GATTATTCCATTGCCGAGCCT	1284	59.02
CGCATCCAAGTATCAATGACCAA	151	60.66
CTTAATGACGTGGCAACTTAGAGC	72	58.22
AGTTGCTGTCCAGAACCATATCCAT	586	60.88
ATCAGCTAATCAAGAAGTAAGAACAGTG	119	56.87
CCAAGTTACTAGAGGAGAAGGATT	397	56.59
CATTCGTTGGTACAAGTGGCA	148	58.15
GCTGGTACTGCTCACTGAAGACC	64	59.05
AAGGCGAGAAGAAGGTAGTACAGGA	3158	59.79
TGAGTGACTATCAGAATAACATCGAAT	201	56.37
TTCTCTCCTCAACGGCTCAT	569	56.11
TTCTCTCCTCAACGGCTCAT	581	56.11
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GAAGATGCGAGATGAGTTGTGC	1880	58.54
GAAGATGCGAGATGAGTTGTGC	1889	58.54
CCAACAAGAAGAAGACCGCCAT	260	61.27
CCAACAAGAAGAAGACCGCCAT	342	61.27
CCAACAAGAAGAAGACCGCCAT	295	61.27
CCAACAAGAAGAAGACCGCCAT	341	61.27
CCAACAAGAAGAAGACCGCCAT	313	61.27
CCAACAAGAAGAAGACCGCCAT	348	61.27
AATCTCTGCTATCGTTGCTTGC	63	57.43
TCTGGATTATTCGCTTATTCTGGA	718	57.99
TTCGTCATATTGGAATTGGATCA	441	57.92
GTTATCATTTCAGTTAGTTGATCACCTG	27	56.3
TGTGCTTGCTGTTGCTTCGT	394	59.23
TCCAATCTTCCTCCAACAATG	1143	56.19
TCCAATCTTCCTCCAACAATG	1143	56.19

TGCTCCAATCACTCTCAATGC	127	57.49
AATCCGAACTTCTCGCATCCT	179	58.79
AATCCGAACTTCTCGCATCCT	179	58.79
AATCCGAACTTCTCGCATCCT	179	58.79
AATCCGAACTTCTCGCATCCT	179	58.79
TATTGAGATGGAGAAGGAAGAAGTTG	938	58.1
ATTGCTGGATTTCGGAATTGG	326	58.44
CGACAACAATGAAGCCAGAAG	2874	57.09
CGACAACAATGAAGCCAGAAG	2874	57.09
CGACAACAATGAAGCCAGAAG	2874	57.09
CGACAACAATGAAGCCAGAAG	2874	57.09
CTTCGCAGCCTACAGTGACA	99	56.26
TTCCTGTGCTCATCTGGCTT	104	57.07
CCACCATCATGCGAACACAA	118	59.94
CCATTCCTTGCTGGACGACA	1550	60.6
GATGTTGTCATCCTGCTGCA	157	56.75
CCATTCCTTGCTGGACGACA	1760	60.6
GCAATTCTGCTATGTATTATTACTCGTT	828	56.71
AGTTCGTTGCGACTCTGGAA	1269	57.13
ACAACTCTTCTGGTGGCTCCTC	981	58.47
ATTCAGCAAGACACTCGCTATGGTA	1687	60.14
TGTGTGTCCAGTTATCGTTCAATG	1489	58.54
TGTGTGTCCAGTTATCGTTCAATG	1489	58.54
ATTGTAGCATTCTTATTGGTATATCACG	183	57.13
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TTGTTGTCGGCTCCAATGAG	1110	58.3
TTGTTGTCGGCTCCAATGAG	1089	58.3
TTGTTGTCGGCTCCAATGAG	1064	58.3
TTGTTGTCGGCTCCAATGAG	1089	58.3
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TGATTATCTGTGTTCTATTCTACGAGCA	1417	58.56
TTATGATCCAGCACAAATCGGA	152	57.64
GAATCGGCGAGCAAGATGTC	727	59.37
AGAAGGTCGCAACTCCAGCA	531	59.57
ACTTGCTCGGAGTATGCTTGA	550	56.35
TACTTGTGTTGCTGACGCCAT	260	57.91
TTGTAAGGAGAATCGCACTGAA	329	56.31
CCACCTTCGTGACGTGGATA	295	58.02
CGTTGACTGATGATTCTACTGTTATTGC	50	60.25
CAAGTATCTTCTTAAGTGCAGGCTGT	42	60.58
GTATTCTTCCTCGCAGATCACG	850	57.58
AACTTGGCTCATGTTTCGCAT	92	56.89
ATCTTCTTGCTAGTTCTGCTGCTTC	58	58.6
GGAAGTACAACCAACAAGGATT	701	58.03

CTTGGTACGACAGCAGTGAGAG	26	56.38
ATGTATGATGGAATGGAGATTGGAA	790	59.42
TTCATTCTGGTATAGCACCTGGA	597	57.39
AAGAGTAGTGAATTCGGCCATCA	912	58.76
GAGAAGAAGACGGCACCTTACAATG	234	61.22
ATCCACAGAGTTGGCTTCAATAGTATC	336	59.05
TGGTGTTGCAGACACTGTCTG	511	57.83
TGGTGTTGCAGACACTGTCTG	543	57.83
CCTGAATTGACATCTTGTAGGAGGA	73	59.5
CTGCTGACGGTGTTGGTGAT	183	58.16
CGTCAGCAGAAGAAGTGAGGTC	84	57.8
TGCGTACTCTCTCAATGCTCTTCT	31	58.49
TCCGTTCAATCCTTACTGTGC	265	56.44
TTATTGAATCACATAATGCACGCT	503	57.45
AGCGTTAGCCATCTATCCACCT	380	57.95
AGCGTTAGCCATCTATCCACCT	291	57.95
AGCGTTAGCCATCTATCCACCT	291	57.95
AGCGTTAGCCATCTATCCACCT	111	57.95
AGCGTTAGCCATCTATCCACCT	287	57.95
GCTCGTTCTTCACTATGCTCTTC	2232	56.25
AACAGAAGTTCATTGCTGGATTG	812	57.05
AACAGAAGTTCATTGCTGGATTG	808	57.05
GGTAGATGTACCGCATTCGAA	75	56.37
TTGAAGAAGAATACCATTATCTCGCT	392	57.75
CGCCGATAGTGAGAATGCTG	415	58.08
TGACGATCTAGTTGTGTTGAGCTATGAG	270	60.93
TTCAGTATGAGCCACGATCCA	1146	57.77
CGGTCAACGTGATCTCATTGC	924	60.09
TTATTATGTGCCAGATCAACCG	465	56.36
CAGTGAGAACAATCCGCCAA	949	58.3
CCTACTTCTCCATGCGTGATATGAG	292	59.98
CAATGTCTGCGTTGAGTCACTGT	1341	58.91
CAATGTCTGCGTTGAGTCACTGT	1566	58.91
CTGCTGCTTCAGGTGGTGGTA	865	59.88
CATTATGCTCTTCATGCTTATCGA	1137	57.29
CAATCGGACTCTCACAGTTCGG	126	60.61
CGTATCGGCGTTGTTGATGC	226	60.99
AGGAAGTATGGCTGACGTTGA	2901	56.04
CGACGAGATTGATGCTGCTT	260	57.66
TTGTTGGCTGTTGCTTGCTT	1972	58.16
CAACTTCATATTCATCTTGATAGGATTC	826	56.76
CCTTGTTCTCGTTACCTTGTTAC	148	57.09
CGTTCACCGATTCTGCCATAG	398	59.18
CGTTCACCGATTCTGCCATAG	382	59.18

CAGGTTGAAGGAATGAGCGA	934	57.48
CAGGTTGAAGGAATGAGCGA	934	57.48
GTGGTCTGACGGACAATCGG	86	59.94
CGGTTGATGGAAGAAGGAGA	164	56.37
AAGTGATGGAGAAGAGAAGGATGT	292	56.25
AATGTCTCAAGGATATGTTCACAATCG	382	60.41
AGACGCGCACATCACGTATAGG	68	61
ATCGCTCCTGTGTAGAATTACGC	40	58.48
GACGCCGACCAAGAAGAAGT	1299	57.99
ATTCCATCGTTCATCAGGCA	231	57.54
AGACAACGATGCTGGAGACG	249	57.48
TCATTCTATTACCTCACTGGCTAT	363	56.32
GGAGAAGCAATGTCAGAAGGAA	838	57.15
GGAAGTGAATATGTCGATGAAGT	1082	57.74
TGGAAGTGAATATGTCGATGAAGT	202	56.46
TGGAAGTGAATATGTCGATGAAGT	202	56.46
ATCAACGACTCCAAGAAGTCCA	2778	57.38
ATCAACGACTCCAAGAAGTCCA	2763	57.38
ATTCGTACTTATATTGAGGATTCTGTCA	286	56.83
GCAATCCTTCGATGTTAATCAAG	229	56.63
GCAGGAGCTACTGGAGCACAG	1112	58.84
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ATCACACCAACACCGCCTAC	540	56.97
ATCACACCAACACCGCCTAC	205	56.97
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ATCACACCAACACCGCCTAC	540	56.97
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ATGTCCAGGCTTACTCAATCTTCA	397	57.97
ATGTCCAGGCTTACTCAATCTTCA	409	57.97
CTACCGTAAGAAGTTCGTTATCCACA	247	58.75
CTACCGTAAGAAGTTCGTTATCCACA	260	58.75
CTACCGTAAGAAGTTCGTTATCCACA	434	58.75
GCACATCGACTCATCACAAGTGT	362	58.73
GCACATCGACTCATCACAAGTGT	549	58.73
CTACCGTAAGAAGTTCGTTATCCACA	247	58.75
CTACCGTAAGAAGTTCGTTATCCACA	434	58.75
GCCAAGAGCAGAGATCAACG	313	57.23
GCCAAGAGCAGAGATCAACG	313	57.23
CACAACAGCAGACCATCATCG	567	58.74
CACAACAGCAGACCATCATCG	485	58.74
AACTTGTGATACTGAATGATCGTGCT	70	59.14
GGTACCAGTGCTGTATATCTCC	103	56.36
TCAGAGAAGAATTGAAGCTACCG	354	56.62

GCACTTAGGCAGCAGATACGC	78	58.76
GTGAGAGCACAGATCCTGAGAATG	435	58.99
GCGTATCTGCTGCCTAAGTGC	48	58.76
GTCGATGATGCATGGACTGC	194	58.63
TGTTGATGATGGATGGACTGC	194	57.95
CATGGACTGCCGGAAGAGTT	208	58.73
AAGTCACAACCTCCAGCTCCATC	398	56.99
GAAGGCTCACATTGGAACCTCG	109	58.38
GAAGGCTCACATTGGAACCTCG	124	58.38
GCATCGGTTACGGTTACAGTAGTTC	556	59.05
GACTTGCCTCTTCGCTTACCA	1913	58.2
TTGAGCCGCAGTTAGAGCAA	109	58.4
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GATTCGTCATGTACGATCCGT	493	56.09
CACGCACTTGTCGCACTTGA	84	60.61
CACGCACTTGTCGCACTTGA	84	60.61
CAAGTAGTCGGCGTGTGTCA	155	56.92
TTCTCGCACATCTTCTTCGC	166	57.78
TGGA CTCTATTGAAGCATCACGAC	50	59.26
GCTTATAGCCAGAGACACTTGTGC	68	58.3
CCTAGACCTACCTTCAAGGCAAG	27	57.34
ATTGAAGAGACACTGGATGCG	3339	56.47
ATTGAAGAGACACTGGATGCG	2922	56.47
ATTGAAGAGACACTGGATGCG	3187	56.47
ATTGAAGAGACACTGGATGCG	3300	56.47
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ATTGAAGAGACACTGGATGCG	2875	56.47
ATTGAAGAGACACTGGATGCG	3297	56.47
ATTGAAGAGACACTGGATGCG	3393	56.47
ATTGGAGAGAGCAGTGGACAGA	223	57.6
ATTGGAGAGAGCAGTGGACAGA	223	57.6
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AATCTGGCGGTCAGGAAGGT	63	59.53
TACGCAATCATTCGCAGACG	29	59.42
CGCCGCCTCATCATCTGTTAC	64	61.46
CTGATGGAGAAGAGGTTACTGAGAA	1937	56.96
CTGATGGAGAAGAGGTTACTGAGAA	2082	56.96
CTGATGGAGAAGAGGTTACTGAGAA	2165	56.96
AACACGTCAGCAGAGGCACT	246	57.12
CGGTCCTAGACATAGAGACCAGGA	88	59.62
TCAACGACTGGAGAGAACACC	810	56.39
CGGCAACACTGTACGAATCC	130	57.69

TTCAGTGATCTATGGATCTACCGA	1210	56.55
ATGAAGCGACTGTCGTCGAA	69	58.05
CGTTCCACCACCATCAACAC	347	58.26
CGTTCCACCACCATCAACAC	346	58.26
AATCCTGCGATGGTGGACTA	308	56.67
TTGGCATTGAGCATGAGGAA	48	58.79
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GGACTACGTGAAGCCAACTGA	84	56.54
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CGAATAATCACATCAGCAAGACA	376	56.58
CGAATAATCACATCAGCAAGACA	408	56.58
TTCACCTACCGTATGGCAGAC	930	56.32
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CGCTTGCTGTCAGAATGATGTGT	142	61.17
GTGGTCACGAGGCGAACTTC	192	59.29
CTCAATTATGGAACAGAGGAGATTC	697	56.29
CTCTCGAGAATTGAGAAGCTTCATC	50	58.83
AACTAGGAGCAGGTGTGAATTAGG	52	60
CGGTGGAGCAGGATGTGGTT	1251	61.81
AATGGAACCTGTAATCCTGAAGCG	957	59.52
GAGAAGAACGGCGTTCAGCTT	819	59.61
GTGCCTGTTCTCATTGTTCTTCT	103	56.28
TTGAGGCGATTGATGAGAAGA	236	57.09
GCGACAACCTCCACAACCTT	249	56.37
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AACACGACTGTCGAGTTCTGC	2206	56.64
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CGCATTGTGGTCTCTCTGTTG	118	57.96
CGCATTGTGGTCTCTCTGTTG	83	57.96
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CGAGTTCTGTATGCTTGCGTT	715	56.83
GAATCTTCCGAACAGAGCTTGC	114	59.09
CGATCTCATTGTAGTTGCTGATG	643	56.2
GCAAGTTCTATCAGCATCTTGGA	882	59.39
GAATCAGACGGAGAAGTTGCC	513	57.46
CCAACCGGACATTAATGATTGAG	73	59.2
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GGATATGCTTGTGCCAATGTG	191	57.57
TTCTCCGTGCTTCTTCTCGT	802	56.33
TAATCCATCCATAAGCTCTAGATGTTGA	71	59.44
TTCGAGAGGTCTGACAGAGGA	626	56.19
GCTGCTGGAATGAAGGATGA	516	57.42

TGTCTCGTTCTGGAGCTATAATAATTGG	29	60.87
GTATCTGAAGCAGTCAAGGATCGGTA	1022	60.76
GCAGTCTCTCAACAGTATCTAGCAAT	689	56.36
AATCTGTTCAAGCAACCGAGT	382	57.4
GGTGGCTCACTACTTCTTATTATTGTG	579	57.64
TGTTATCCAACATATGCCACTTG	73	56.29
ACCGAGCAACCGAGCTGTAAG	330	60.38
AATGGAGTGCCGATCAGACG	399	59.65
GCTCTCCAGCAGTCTTCTCG	55	56.53
GGTATTGCGACAGAGGAGGA	413	56.39
ATTACTAAGACTGGAGAGGAAGATGG	275	56.53
TTCACATCCAAGATTTCGAA	94	56.31
GCGAGAAGAGGAAGAAGACGAA	521	58.84
GCTAGAAGCCAACATGTCATCC	50	57.44
GCTAGAAGCCAACATGTCATCC	52	57.44
GCAGTGTCTCAGTGGTATCCTCA	434	57.93
TTGCGATAGAATCAGTGCTCAT	306	56.26
CGTTCCACATACCGGACATAG	860	56.59
CGTTCCACATACCGGACATAG	938	56.59
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GCCACCACTCTTCCATCCAA	268	59.49
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TGTATTGTCTCCTTCGGCATC	1261	56.37
GTTCCGATCTTCCGGCTCAT	270	59.99
GATCCGAGCTTACGAAGATGATG	75	58.85
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CGAGAAGGATGGCTACGAGA	2104	56.71
CGAGAAGGATGGCTACGAGA	2110	56.71
TCAGCCCACTCTGCGTATCG	2033	60.94
AGTTGCATACAGAGAGTGCTTGG	1589	57.33
CGACATTGCCGAGAAGGAAT	775	58.73
CGTCACCAATAAGCCAGAGAG	146	56.2
CTCGTTATCCAAGCCAGAAGAC	1388	56.76
TCGGTCTCTCGTTATCCAAGC	1380	58.01
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GATTCTTGACTTGATTCGGAGTG	824	56.6
GATTCTTGACTTGATTCGGAGTG	814	56.6
TAGACCTCAATACCGACCGAAT	45	56.4
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CTTATGCCGCTGCTTATTGAG	1458	56.55
TCAGGACCATCATCCACATACATG	195	60.44
CGACAGAAGCCGTTGGTTGT	236	59.73
TTAACTATCAACCGACTCGACAGC	324	58.51
ATCCTGTCGTTATTGCTGTCTATCC	3184	58.64
AGGATGATTGTGGAGATGCTTC	12328	56.82
TTGAAGAGGATGCGTTGGAGAT	3352	59.67
GCTAAGATTGCCGAGTGGA	154	56.66
TTCGTGTCTCCTTGCTCA	54	56.52
AACAACAGGAAGGTTCAGTAGAACA	83	57.18
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ACAGAGAGGAATCATCAGACGAC	76	56.09
TTGGTTCAATGCTTCGTTCA	959	56.38
G TTCCTGACCATGCCGATGA	676	60.44
ATGCTCGCCTTGCTGTGGTT	1954	60.64
GCCACAACAGCAGTCACAATC	372	57.81
TGATATGCTAGATAACAGCAATACATCA	66	57.29
GCCTGATAGCATTCCATTACTTG	106	56.66
AATGATGAGCGTTGATGAGACA	971	56.89
AATGATGAGCGTTGATGAGACA	971	56.89
GCACATACACATGCGTCTCAG	257	56.39
AAGTAGGTTCAATAGTGGAGGA	37	56.25
AGCAGGTGTGAAGAAGAAGAGAA	83	56.17
AATGGCGTTGGCACACTCAC	946	60.53
ATGCCTCCGATTGTTGTTGG	426	59.38
ATGCCTCCGATTGTTGTTGG	426	59.38
ATGCCTCCGATTGTTGTTGG	426	59.38
ATGCCTCCGATTGTTGTTGG	426	59.38
ATGCCTCCGATTGTTGTTGG	426	59.38
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ATGCCTCCGATTGTTGTTGG	380	59.38
ATGCCTCCGATTGTTGTTGG	373	59.38
ATGCCTCCGATTGTTGTTGG	383	59.38
ATGCCTCCGATTGTTGTTGG	357	59.38
ATGCCTCCGATTGTTGTTGG	427	59.38
ATGCCTCCGATTGTTGTTGG	371	59.38
AAGCGACAACGACAGACATCC	2148	58.8

ATGCCTCCGATTGTTGTTGG	426	59.38
GTGGAACAACGTAACCTGGATCG	1052	59.4
TTCACACACACGGCGAGGTT	82	61.11
TACTCCAATCACAATAGACGCAGA	48	57.59
GGATGATTATCACAACCTCCGAGA	33	56.8
CCAGCAGCACTACTCCATCTTC	100	57.7
GTGTGCGTTCCTCGAATAACAAG	164	58.38
GCTTCATCGCCTATGGTACAGTA	231	57.14
GCTTCATCGCCTATGGTACAGTA	426	57.14
AATATGAGGCACCGATTCCA	100	56.57
CAGCCTTCGCCAACATTCTC	71	59.4
AAGGAACCGAATAACAATGGAA	634	56.35
AATTCGGAGATCTACGATTACCG	81	57.42
CGAGTCCGCCATCTATCTGC	3135	59.39
TTCCTCTTCATCTCCGCTCTT	39	56.84
CTGTCAAGAAGTCGTCCAAGTCG	446	59.91
TGCTTGTTCACTCTCTCTATTCAATC	72	59.36
TTGAAGTGAATAGAAGAAGAATCCTG	156	56.24
ATTGTATTGTTGAAGAGAGAAGAAGCA	71	57.89
GAAGCCGAATTAGATAGACTTCTTGA	491	57.54
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TCTTCAAGTGACGACGCTGTT	911	57.21
CGCTCCTCTGAAGCATATAACAAG	242	58.3
TGGAATCAGAAGGAATCAGAGAAGC	641	60.94
TGGAATCAGAAGGAATCAGAGAAGC	641	60.94
TGGAATCAGAAGGAATCAGAGAAGC	739	60.94
TGGAATCAGAAGGAATCAGAGAAGC	783	60.94
TCTATCAACGGATCAGAATGGTC	1636	56.8
ACCAAGGTGTATCGATTAGGATTG	1368	57.22
GGCATCGTGTATTGGCTACTCTC	126	58.78
TTCAAGGATTCATGGATTGTCTG	282	57.66
CGAGAATGGTCACAAGATACCGATA	668	60.18
CCTACCGCTTCGTTGCCTAC	62	58.47
GCATACTGGTTGTTGTACGACGA	110	58.69
GCATACTGGTTGTTGTACGACGA	295	58.69
CGACGAGGATGAGAATTATGATACAC	559	58.97
TCTTATTCTGGCTGGCGATG	157	57.53
GCGTTGTTCTTCTCACTGTTGCT	648	59.58
AAGATGGAAGGAACTGCTAGATTG	37	56.88
TCGAATTCCACGCTTCGTTAC	547	58.82
TCTTGGTGGATGATGCCGTT	1740	59.9
GGTGCCATTGTAGTCGCTTC	921	56.89
TTCTGAACAGCGACTATTGTGTGA	114	58.56
AACAGAATGGAGCAGTTGGAA	184	56.01

AACAGAATGGAGCAGTTGGAA	184	56.01
GCATACCAGAGATTAGTTGCAGCT	1680	57.84
AATCGTCATTCTAGGACAACAATTCGTA	107	61.1
GCATACCAGAGATTAGTTGCAGCT	1877	57.84
CGGTCAGAAGAAGCTCACAGA	281	56.87
CTTGTTTCAGAGTGGAAGCGAA	327	56.82
CTTGTTTCAGAGTGGAAGCGAA	328	56.82
AGGCGAAGGACACCGAACAG	479	61.14
GGCTAACTATGGACTCCATTGATATGG	117	60.96
AGAACAAGGAATCGGCGGCTA	4900	61.82
GCTATCCAAGTTGCGACACG	131	57.99
CCGACTTGGCAATACTGAGC	391	57.05
GTAGTTGTCGAGCAGCCGTCT	191	58.22
CCGACTTGGCAATACTGAGC	391	57.05
AGACTGTCTATCAGAGTGCTTCTCAGAT	676	58.44
AATGTGCCGTTGGATGGTAT	501	56.35
CGGCAGAACATTGATCTTCACTT	248	59.25
AGTCAAGGCTGGCGAGTGTC	2396	59.04
AGTCAAGGCTGGCGAGTGTC	2358	59.04
AGTCAAGGCTGGCGAGTGTC	2358	59.04
AGTCAAGGCTGGCGAGTGTC	2583	59.04
AGTCAAGGCTGGCGAGTGTC	2388	59.04
AGTCAAGGCTGGCGAGTGTC	2412	59.04
CAGTCAGATCACAGTCCAGCGA	830	60.02
CAGTCAGATCACAGTCCAGCGA	761	60.02
AACACAGACGGCTTAATGTCAGA	3424	57.56
CAGTCAGATCACAGTCCAGCGA	830	60.02
CAGTCAGATCACAGTCCAGCGA	830	60.02
AGGTGTACGGAGCCGTCGAG	275	61.16
TACAGTAGCAAGTGAATTGAGATAGTTG	89	56.4
TTCTGCCGTCGTTGGTTCCT	59	61.5
CTCAATGGCTGCGTCTGCTG	942	61.62
ATACGGAGGAAGTTGGCATTG	124	57.68
CGGATGCCTGTGGATGAGTT	152	59.51
ACAACAGTAACAACGACAACAACG	210	57.84
ATGATGGAATAGAGTGTGGTGAGGAA	75	60.87
TTGCTGCGTTACTTACCACGA	71	58.12
AGTCTCGCTCGTTATCGGAA	29	56.27
AGTCTCGCTCGTTATCGGAA	29	56.27
ATGTTTCGCATCGGAGGTGTG	52	60.49
GGACGTATCGTCATCGGACT	148	56.1
AATTCCAGCGTGTGTCTGC	215	57.41
AATTCCAGCGTGTGTCTGC	215	57.41
CAGTGAGGATGAGAAGAAGCG	6367	56.35

GTCAGATGCTTCTCAGTTGCTTC	586	56.98
AAGCTCAGCGATCGAATTCTTG	408	59.59
CAGTCGTTCAACTCCAACCTCAT	623	59.14
CAGTCGTTCAACTCCAACCTCAT	314	59.14
TTAGCCGCACGAGATTGAGC	1376	60.07
TTAGCCGCACGAGATTGAGC	1376	60.07
CACTGTTGGTTCGCTTGCTC	268	58.1
TCGAGATGAGAATGTGCAAGTTG	608	58.97
GGATTGAGTGAGGAGTCCATCG	1290	59.53
CGGAACTCTTGAGAATGGAACC	166	58.69
GAATGCGATGGAATGCGAGA	301	60.66
AATGGACCACCGAGGACATC	101	58.24
AATGGACCACCGAGGACATC	101	58.24
GGAGTGATAGGTTACCAGCGGAT	775	59.36
AGTTGATGCTACCTGCGTTAATTGAG	165	60.77
CAACCTCGTCTTCTTGCCAA	81	57.54
CGGCGTAATTATTGTACTCCACA	131	57.78
GTTCTTCTTCTACACAGGATTGGTC	717	56.3
TAATAGAAGAAGAGCACCGAAGAGG	128	58.35
TAATAGAAGAAGAGCACCGAAGAGG	141	58.35
GGAGTCGGAGCAGCAGATTC	2270	58.57
GGAGTCGGAGCAGCAGATTC	2270	58.57
GGAGCAGCACAGATTCAACC	1290	56.91
CATAGTGGAGCAGCACAGATTC	1286	56.21
CGATCCTACATAACCTGGACAAC	1230	56.34
GCAGATACGAGAACTGGTGGA	1695	56.47
TTAGATATAATGTTAGTCGGACAGAAGC	65	56.72
TTGGAATCTATTGCCTGAGGA	47	56.01
AGAAGATCTCGCAAGGCAGTG	686	58.29
AATGAAGAGAAGGATGACACTGGTT	46	58.26
TGGAGCAGAGTTAGCATCAGC	838	56.94
TGGAGCAGAGTTAGCATCAGC	838	56.94
AATTCGCCAACCTTATGGATAG	1541	56.07
GTACACTTCAGTCATTGGCTCCA	725	57.86
CACCGCTGACACGAGAGGAA	552	60.95
GATTGCCACACCGCTCACAT	1135	60.5
GATTGCCACACCGCTCACAT	1146	60.5
GGTCATAACCAAGAGAGCTGTTG	92	56.69
ACGACGAGCCATCAGATGTCAG	84	61.17
GCGAAGCAGAAGGAATAGAGAA	61	56.69
CGCTCACTCTGTGTCTCTCTGTG	153	58.9
GCACCACCACCAGATGACAA	865	58.95
GCACCACCACCAGATGACAA	865	58.95
GCGTATAGAAGATTGAGGTTGGA	350	56.28

ATTCTATTCACATCGCACCACTTG	271	59.05
GTTGCCACCGACTACTTGCC	758	59.19
ACTTATTCATTCAACCATCCAACG	63	58
GCACGATTATGGCGATGAAGA	172	59.64
GGTCCTGCCATATTCAAGTGA	773	56.22
GTATTGTCTGGTGAAGCCTGGA	539	57.79
GATAGGAACATACTCGGATATTCTTGA	105	57.12
TCACGGCTACCAATTCATAACTGC	236	61.11
ATTGGCAATTGATGACTTCC	872	57.6
AGAGAAGTGTCAAGGCGGAAC	173	57.13
TGGAGTTATCACGTTATCGCATG	223	58.64
CCTAACATTGACCACTATCTCTATGACA	780	57.9
ATTCTGATTCTGGATTCCAGCGTA	183	60.71
GCTTCCTACCAACTGTCATCG	787	56.04
TTCGACAGATGGTCCTGAAGA	872	56.9
TTGATAATGCTCCGCTGATGA	286	57.93
TGTATGTGCTAGTAGTGTGTCCAATG	192	57.07
ATTGGTGGACTCGAAGATTATTGTG	1284	59.29
TTGACGTACCGATAGACATTCAAGTGT	271	60.91
GACCGTTCTCTCCATCATCGT	202	57.65
ATTCAAGGAGGTACACCATGTCAA	518	58.42
TTGATAATGCTCCACTGATAACCTACT	292	57.6
ATCCGGATCAGACGGTGACC	71	60.69
AACACCTTGCCGATGAACCA	48	59.93
CTTCCAACACCTTGCCGTG	37	57.79
CCACCGAGAATGAGAAGGAA	215	56.37
GACTCGACGACAACGACGTT	482	57.38
ATGTCACTGATGTTATGTCATTTCGC	1183	58.94
AATGAGACGGCTATCGCTACC	604	57.11
CTAGGTCAGCCTCTTACACAATACG	529	57.38
ACGTCAATAACGACGTGCCA	1274	58.65
ACGTCAATAACGACGTGCCA	1387	58.65
AACGGAACGCTGGAACCTACC	576	57.79
TCCATTGTGCCAGAGTGTGA	864	57.15
GTGATTATTGACATTAGTGGTGACTCC	29	58.04
CGGATGGACACTGAGGAGAA	92	57.23
TCACCACTAATGTCAATAATCACTAAGC	78	57.96
GCACTCGAACGTCTGTGAAGA	46	57.68
GAAGTCGAGCATGTCTTGATGG	189	58.4
AGGCTTATTAGTAGGCTTCTTATGAGTG	662	57.34
GTGCCAAGGATTATGCTGCT	1270	56.54
AGGAGCAAGAAGAGCACGGT	898	57.75
GAGTCCTACTACTCAGTTGAACTCGTTG	258	59.04
AAGCTAGAAGACGACGCACATAG	356	56.73

GAAGGTGTCAGGAGTCAATCGG	71	59.56
AGCCTACGAGCATCCATTGAAC	1855	59.22
AGCCTACGAGCATCCATTGAAC	1566	59.22
TGTTGCGATCATCACGAATG	143	57.64
TGTTGCGATCATCACGAATG	143	57.64
CGTAGGAGATGGCTCATACTGC	817	57.61
AACCATCATTCTGTACTGCTGAAG	395	56.3
AACCATCATTCTGTACTGCTGAAG	763	56.3
AACCATCATTCTGTACTGCTGAAG	197	56.3
GTGGCTTCTCTTGGAATGTACTCTT	411	58.11
GTGGCTTCTCTTGGAATGTACTCTT	373	58.11
GTGGCTTCTCTTGGAATGTACTCTT	391	58.11
ATAATGTCCGCACCTCCAAC	24	56.08
AAGCAGAGATGACAAGAAAGTGAGA	565	56.18
GTGTCTACTGTGTTGCTCATCCG	143	58.39
GATGATGGATGATCTACTTCAACGG	298	59.69
ACCAATTACCACCGCAGCAG	227	59.58
CCACTGTTGTTCTTGGAATGAGA	544	57.83
CCACTGTTGTTCTTGGAATGAGA	544	57.83
CCACTGTTGTTCTTGGAATGAGA	611	57.83
GGACAGATTATTCTTCGCAGACTCA	1518	59.75
GGACAGATTATTCTTCGCAGACTCA	1547	59.75
GACCGTTCCTGCTACAAGCTC	27	57.69
TTCAACTTCAACGAGCAATGGC	787	61.07
TTCAACTTCAACGAGCAATGGC	854	61.07
TTCAACTTCAACGAGCAATGGC	905	61.07
TTCAACTTCAACGAGCAATGGC	821	61.07
GGCACGATCTTCTTCAAGTTG	1093	56.16
GGCACGATCTTCTTCAAGTTG	787	56.16
TATTAGAGCCGATGGACGCA	1325	57.95
TTGTGAAGTTGGACGATGAGC	1675	57.4
CTTGGAACCACATCTGCTCTG	213	56.99
TTGTGAAGTTGGACGATGAGC	1675	57.4
TTGTGAAGTTGGACGATGAGC	1498	57.4
AGGATGTTTCGTCGGTTCTTG	1057	56.3
TCCGTCCTTCATGGAATTACTG	178	57.67
CACAACCAACTGTCAATCCG	297	56.02
GATGCCGTCCTGCGATGTAC	1058	60.07
GAGAAGAGTCTGCGAGAAGCTGTTC	275	61.07
GGTGGTGGTGGTGGAGAATC	1892	58.64
GGTGGTGGTGGTGGAGAATC	819	58.64
GGTGGTGGTGGTGGAGAATC	890	58.64
GGTGGTGGTGGTGGAGAATC	1771	58.64
CGAGATGGATCGCTACACTTC	827	56.13

CGAGATGGATCGCTACACTTC	118	56.13
CGAGATGGATCGCTACACTTC	421	56.13
TGATTGTGCGAGGATATGTCACCGT	430	61.4
TTGGATAAGGATTTCAGAGGAGGA	1818	57.84
CGCAGTCTACACACTCACTCCAC	181	58.53
AGGAACAACGAGACAACCTGGCT	62	58.9
GTGAGAAGAACAGAAAGTGACGGA	65	57.19
TTGTGTCACTCTGAGGTCGGA	185	57.86
GTTCACTCTCTACAATTACACCGCTT	385	58.11
GAAGCCACCACAGCGAAGAG	259	59.57
GCTCGTCAACATTACACATGAGCT	1059	59.33
GCTCGTCAACATTACACATGAGCT	1059	59.33
GGCGAAGATTCAGTAATCTCGTT	60	57.63
GCTCGTCAACATTACACATGAGCT	847	59.33
GCTCGTCAACATTACACATGAGCT	968	59.33
TGACCGATGAGTATGTGCTCTC	211	56.49
TATGGAAGACAGTTGCCGACGA	2266	61.46
TATGGAAGACAGTTGCCGACGA	2266	61.46
AGTATTCCAACCGCAATCGCT	155	59.58
TATGACAATAATGGACAATGTGAGAA	206	56.43
GGCTGTTGATAATTCAATTAATGCAA	738	59.32
TGTTCTTGTCTCACTAACAAATGGATT	94	57.09
GGAGGAGCAGCCAGTCATTC	1811	58.42
AACCTGATCTCAATGAAGGATGG	395	58.07
TGAGAACAATAGCATGTGGTGGA	556	59.08
TGAGAACAATAGCATGTGGTGGA	556	59.08
AAGGCTCAGCCAAGGACAGC	183	60.48
TGTGTCCATTGATTCCGTTGT	733	57.37
TGTGTCCATTGATTCCGTTGT	806	57.37
TGTGTCCATTGATTCCGTTGT	1044	57.37
TTGATTGATGATGACGAAGATGA	164	56.77
TCGCTAAGGACTCGCTCAGAC	1998	58.43
TTGACGATTCTGCAACTTGGC	45	59.83
CCTATCAGAGACATTGGAGACGA	1676	57.05
CACCAAGCAAGTCGGAGGAA	99	59.81
CACCAAGCAAGTCGGAGGAA	113	59.81
TGCTGCCGCTGATAACTCTC	631	57.81
ACCGATTCAAGTGGCTTCTGC	456	60.21
GAGGACTCTTCGCTGGACAC	765	56.03
CCATCCACATCGTTCAATAGC	153	56.65
CTTCTTCACCTCAGCAGCCAT	29	58.15
GCCACCGAAGAAGAGTCCAA	811	58.85
GACGAGCAACACGACGATGA	170	59.41
CAGACGAAGATGGCGGTGGT	322	61.95

CAGACGAAGATGGCGGTGGT	390	61.95
CAATAATGTGTGGAGTTGTGAGCA	571	58.67
TCCGTAACCGTTCTATACGACAG	81	57.06
CGGACACAAGAATCTGTAAGAAGGC	118	61.22
CGGACACAAGAATCTGTAAGAAGGC	152	61.22
CGGACACAAGAATCTGTAAGAAGGC	118	61.22
CGGACACAAGAATCTGTAAGAAGGC	152	61.22
CGGACACAAGAATCTGTAAGAAGGC	149	61.22
TGATTCTGGAGCCTCACCTG	865	57.39
CGGACACAAGAATCTGTAAGAAGGC	115	61.22
CGGACACAAGAATCTGTAAGAAGGC	147	61.22
TGGATGGATGATGGACAACAAC	104	59.1
TAGCAGTGGAGGTGAATGGC	25	57.35
TTGATGAATATGATGAATATCGTAGACA	1013	56.98
TGTGCCTGTGAATCAACCTG	233	56.66
CGCATTCTTCCGTCATCTCC	367	59.22
GACACTCCATTCTAATCCACAAGG	223	57.71
GACACTCCATTCTAATCCACAAGG	243	57.71
CAAGAGATGTACTAAGCCAGACAGAA	101	57.14
GTGCGAGACCTGCTGCTAAG	600	57.47
GTGCGAGACCTGCTGCTAAG	600	57.47
ACGGTGTAATTGTTGGAAGCTTGATAC	580	61.45
TGTATGGCAGGTCTCGCTCA	170	58.98
CCGATGTCAGTAACACAGTGAACA	185	58.68
GGTGATGATTCTTCTGTCAACCTACA	223	61.73
CCGAGGAAGCAGAGTCAGAG	1747	56.37
TCTAGAAGCAGTCAATGTAGCCAA	111	57.07
GAAGAAGCAGACAAGGTTCAAGA	212	56.54
CCGAGGAAGCAGAGTCAGAG	279	56.37
AGAGTGCGGAGGTCTTGACA	1364	57.03
CAATGGTGGTGAAGGCAACT	588	57.1
GGTGTCTCACTCGGAGATGTG	462	56.72
GGTGTCTCACTCGGAGATGTG	617	56.72
CGAACTGTCTATGTACCACTCAACTG	69	58.03
GACCGAAGCAGATCAGGTGTTT	697	59.71
GAAGACTCAACGATAACCATTACCGA	119	60.51
GAAGACTCAACGATAACCATTACCGA	245	60.51
GAAGACTCAACGATAACCATTACCGA	203	60.51
GAAGACTCAACGATAACCATTACCGA	272	60.51
GCAACTCTGTCAATAGCCGAA	1970	56.74
GCAACTCTGTCAATAGCCGAA	279	56.74
AACCGCTGAGCTTGACGATT	561	58.54
GCAACTCTGTCAATAGCCGAA	849	56.74
TGAGCTCAATATATTGCCACGCT	118	59.73

ATGTATCCAATGAGAATGCCAACT	28	57.62
GAATCGTGGAGTTGTCGGCTA	1543	58.79
GGATGGCAACAACCTGGATT	152	58.3
GGAAGGCTGTGCTCAAGGAT	109	57.93
GCCTATCAGAGCATCATTCAACA	194	57.96
TGCTAACTCACAGAACGACACC	239	56.62
GATTCAAGATACCGATTATCACAATG	319	56.87
GGTGATGATGAATGGAAGATGG	675	57.78
CGGATGCCTGATGACGAGAT	2565	59.61
CGGATGCCTGATGACGAGAT	2565	59.61
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TTCCTCAATGTCTGCACATGCTT	252	60.61
TTCCTCAATGTCTGCACATGCTT	226	60.61
GCTCCAATGAATCTCTGTAATGAAC	47	57.1
GCTCCAATGAATCTCTGTAATGAAC	94	57.1
TGCATCAGCCAGTGCAGATAG	310	58.64
GTGGCAGAAGCAGGACGATA	118	57.51
CCACAAGTCCGACTACTTCTCG	277	57.61
GGTCAACGCCAAGGAGATTC	327	58.18
CACTGACAATGCACAATGAGC	127	56.36
TGAACACGAACAATGCCACA	57	58.11
CCGCATGACATTCCAAGAGA	222	58.24
CTCACAGTATCAGCAGCTCCAA	155	56.86
CTCACAGTATCAGCAGCTCCAA	90	56.86
AATATGACTTCTACTCGATCAATGTTG	322	56.02
GCAGTCGTCTACACAGTGATTGGA	501	60.18
TCTATCGATTCATGCGCTGGA	140	60.28
TCTATCGATTCATGCGCTGGA	95	60.28
TGAAGACGAAGAAGCAGAGGA	877	56.48
TGAAGACGAAGAAGCAGAGGA	770	56.48
TGAAGACGAAGAAGCAGAGGA	797	56.48
TGAAGACGAAGAAGCAGAGGA	539	56.48
AATCCGATTCACCAGAGGTTT	237	56.66
GCTCAGAACGCTTACAATGAATG	112	57.72
TAATGAACTTGTGGAGGCGATG	1879	58.7
ATTGTCTACTTCCTCTCGTTCCTCGT	77	60.77
ATTGTCTACTTCCTCTCGTTCCTCGT	77	60.77
GGAGAGGAGACTGCTCGTGACA	596	60.53
AAGGAGAAGAAGACGCAGAGAA	428	56.24
GTTATGGATGCCGTTCTCACTGTT	238	60.22
GTTATGGATGCCGTTCTCACTGTT	331	60.22
GCCGCAGAGCATTGTCAGAG	263	60.65
TGCAGCAGATTCTTGATAGCC	341	56.83
ATGTTCCAGATACCGTACTTCCA	579	56.34

TGGCTCAGGAAGTGTTATCAATCG	2642	61.24
TGGCTCAGGAAGTGTTATCAATCG	2531	61.24
GATAATGACGTTGAAGGTAATGACCA	431	59.2
TGCTCTTCACTCCACACATCCA	198	60.26
TTAGATGTGGCGGATGAGGA	481	57.7
GCGAGAGGATTAGATGTTCCACAA	1009	60.41
TGACAAGAGAGATCCAGCGTCT	403	57.75
TGACAAGAGAGATCCAGCGTCT	563	57.75
CGACACACGAGTTGATGGAAGG	86	61.41
GATGGAAGGCGAACAGTGTG	20	57.74
ATTCGTGCTCACCTAATCCTAGAC	50	56.77
GTGCAACTGCCGTATCAATG	118	56.28
TAAGCACGACAACTACAACCTCCA	717	56.33
TAAGCACGACAACTACAACCTCCA	761	56.33
CAGTCTTCTTGTTGCTGGATCA	84	56.68
GCATACACGTCACTGGTTCAGC	256	59.26
TGAGTGAGATGCCGAATGAAC	739	57.34
CAAGGATGGAAGGACTGGTG	479	56.6
AAGCGAATGAGCAGACGGAT	84	58.49
CTTCACATCAGCGATTCTCTT	95	57.18
TCGCCATTCTCTGTACAGCATT	459	58.47
AATTCATTGAAGAAAGTGTCTCGTATG	1101	56.78
CTGTGTTGTGTCTGTTGACTCTGA	82	56.64
AATCAAGAATCAATTCTCAGATGTTCA	94	58.31
AAGACTCACCGCATACGAACC	706	57.8
AAGACTCACCGCATACGAACC	706	57.8
CCATTATATCTATTCCAGAGTTCGTTCC	65	59.55
GCAGAGCCATCACAAGTTCAAG	1075	58.59
GCATTGGTCGCTCGTTATTATCC	7295	60.6
GCAGAGCCATCACAAGTTCAAG	1171	58.59
GCAGAGCCATCACAAGTTCAAG	1105	58.59
GCAGAGCCATCACAAGTTCAAG	1105	58.59
AAGCATCTCCGTTTCATTGTT	253	57.42
TCCAGTTGTAGTATGTATGGTTATAGCA	164	56.44
TCCAGTTGTAGTATGTATGGTTATAGCA	165	56.44
AGCGTCAGCGGATGTTATTCAG	79	60.22
GCCACCTCTTGTTCCATTGC	610	59.12
GCCACCTCTTGTTCCATTGC	610	59.12
GCCACCTCTTGTTCCATTGC	610	59.12
TTGGAAGAACGTGTCAGTCGTG	112	59.77
ACATCATATTGGCGTGCGAA	165	58.59
GGATAGATGCTACGACGGTCAAGA	239	60.43
ACGGATTGATCGAAGTTGGA	498	56.64
GAATCGCAGCTCGGAGACCT	1876	60.45

AACTCTCAACACGACGCCACA	935	60.31
ACTCTCAACACGACGCCACA	935	58.89
CCGATGAGATCCTTGATGAAGC	896	59.63
TCACCAGAGAGACGCCATACG	969	59.84
TCACCAGAGAGACGCCATACG	969	59.84
TCACCAGAGAGACGCCATACG	969	59.84
TCACCAGAGAGACGCCATACG	746	59.84
GAGATGAGAGTTCAGGCGGTCA	499	60.34
GCTCTTGGTATTGATATTGCTATGC	706	57.25
AACTAATGACACTGCTGATGGATG	523	56.95
AACTAATGACACTGCTGATGGATG	523	56.95
TTGAGTACATGTGGATTGCTCCA	980	59.08
TTGAGTACATGTGGATTGCTCCA	754	59.08
AAGACATCCAGTGTAATTGTGACAA	1756	56.45
CCACGGATGACATGTGCTCA	176	60.09
GTGGCAAGTGGCTCAGAAGA	746	57.61
GGATGAAGTTGATGAAGATGCTG	656	57.42
CGTTGGCACAACCTGATAGAAGC	321	58.52
CGTTGGCACAACCTGATAGAAGC	321	58.52
ATTCCACACTCATCTTCTTCTGC	275	56.21
TGATGTCCAATGGGCTCAAGA	2135	56.17
TGATGTCCAATGGGCTCAAGA	2140	56.17
CCTACTTCCAAGATGAGATCAATCC	190	58.22
TTCCACTACCGACTTAACGACTC	95	56.29
CATGAAGATACGCAGAGATCCAA	76	57.96
GTCGCTGCCAAGATGTGAAC	763	57.89
GTCGCTGCCAAGATGTGAAC	838	57.89
GTCGCTGCCAAGATGTGAAC	455	57.89
GTCGCTGCCAAGATGTGAAC	406	57.89
GTCGCTGCCAAGATGTGAAC	386	57.89
CGAACTTCGTCAAGCTCGTC	961	57.29
TCGATTCCGATGAGACGAAT	140	56.73
TTCTCTACAAGATCATCGGTGAACG	865	60.44
CGAGAAGAGGCGCTGGTCTA	761	59.3
CTACTCAGATGGATGTGAAGCG	467	56.21
CAGTGACAGCGAAGAAGAAGAAG	604	57.19
ACGACGGCAACTACGAGATG	4016	57.44
GCAACCAAGGCTTCTCATCA	767	57.48
GTGAGTCTGCTGATCTGCTTGG	39	58.69
AATCCAAGACCAACAACGACA	1839	56.63
AATCCAAGACCAACAACGACA	1839	56.63
GAGAGAACCTGACAATCCACACC	1007	58.57
CCGACGACGAGACTGACGAT	600	59.84
GGACGCACACAATCATACTGGA	5604	59.45

GCAACTCCACCAGCATCCAC	684	60.09
AGTCTTATTGGCATCTCGTTCC	289	56.14
TGCTAACTCACACAACAGAACCG	376	58.94
TTATTGAGCAGTGTGGAGGTCAC	303	57.86
CTGGAGTTATGCCGATTGCC	1539	59.13
GACATCATTGAATACGTCGGTCT	1391	56.74
ATCCTTCACCACCAGCATCG	201	59.51
GCTGTGTCTTCTGTGATGCTGA	1704	57.7
TTCTTCTTCATGTCATCCAGCGA	271	60.68
TTCTTCTTCATGTCATCCAGCGA	63	60.68
TGGAGAGAATGGCTCATGCC	100	59.74
CGATTGTCGTGAGAAGATTGAC	404	56.02
CGATGAGGTTCTCAAGACGATG	195	58.4
GAGTCTTCGCAGGTTGAGGA	41	56.63
TGACTATGAACACCGAAGATGAAC	760	56.93
AGACTACGGAGAAGCCTGGTG	1028	57.16
GCCTGCTTGCACTCCTCCTT	860	60.48
TCGTGTTTCGTGCTGCTGATAG	796	58.54
CAACCATCTTCGCCAGTCAT	63	57.2
CAACCATCTTCGCCAGTCAT	63	57.2
CCGTTCCAACATTTCGTGAGG	181	59.92
AACGCCTCGGTAGCAGTCAT	26	58.42
CGTTGTCAGTGGCGGAGAGA	498	60.95
CGTTGTCAGTGGCGGAGAGA	519	60.95
CGTTGTCAGTGGCGGAGAGA	594	60.95
CCGCAGAGCAACCAAGTGAC	405	60.4
AATCAACGAATTGTTACGCA	274	57.75
GGAGGAGTCATGGCAAGAGG	38	58.27
CCTACGCAGATGAGATGAAGTG	6890	56.21
ATGATAATGATGTGACTTCCTCCTGCT	216	61.26
CCAGCAACAGCAACCATCCT	384	59.69
TTGTGTTATGGCTAAGACCTCAGTT	261	57.23
ATGCCGATGCCTATGCCAGT	400	61.32
TTCTATGCTCAGTCTCATCAACTCA	784	56.97
CTTCTACAGCGAGCCGACAA	158	57.87
TTCTATGCTCAGTCTCATCAACTCA	745	56.97
GCACCATCGTAAGAAGAATCG	664	56.1
CAACGAATAAGAGTTGACGGATGTCT	105	60.67
GCACCATCGTAAGAAGAATCG	664	56.1
CATCAACATATTCGGAGGAGCA	76	58.65
TTGTCGCCGTTGTAGTTGTGT	423	57.81
GTCAGTATGATGATAATGTTGATGGA	747	59.96
AAGAGACTCGGAGTCAAGTGATG	331	56.31
ATTATTGAGCAACGCCTTCG	784	56.65

ATTATTGAGCAACGCCTTCG	708	56.65
ATTATTGAGCAACGCCTTCG	722	56.65
ATTATTGAGCAACGCCTTCG	750	56.65
TAGTGGTAATGTATGTAGTGGAAGCC	99	56.67
ATATGGATACGGAGGACGTGGAC	296	59.92
ATATGGATACGGAGGACGTGGAC	296	59.92
GTGCTCCTTGACCTCCTGTGC	471	60.78
TTCAACTTCAATACATTGACATTCTTG	904	60.51
AGTCCATGCTGGCGGTAAGT	550	61
CTCGTCTCTTGGAGGAGTGC	138	56.21
GAGGTTACTCCTGTGGAAGATATGG	228	58.16
TTCAACGATTCAGCGACCAC	726	58.3
TTCAACGATTCAGCGACCAC	707	58.3
TTCAACGATTCAGCGACCAC	726	58.3
CGAACGAGACGGAGCGACTC	125	61.96
CCACAACAGCCACCACAACA	521	60.02
TGCGTTGTCCGACTTCCAG	22	60.77
TTGACTTCTTCGTTCACTGACCTT	46	58.12
CAGATTCCAATCAGCTCCGA	161	57.42
CAGATTCCAATCAGCTCCGA	127	57.42
CCAGAAGAAGCATTCAAGGC	182	56.24
ATATTGGCTGTTAGAGGAGTTGTACC	130	57.15
TGGCATTGTGGAAGTGAAGG	312	58.14
ATACGAACCAAGGAAGAAGAGCA	101	58.09
AACTTGCTCAGATGAATGTGGAT	188	56.48
CGTCGTCAATCGGTTCCAAT	923	59.38
TTCATCATGCTCATTGTATTGGTC	396	57.63
TTATTCACCGATGGACAGCA	300	56.18
TTATTCACCGATGGACAGCA	436	56.18
GGATGCAGTATGTGGAGATGC	207	56.68
GGTCTGATTTCGGCTTCCATT	262	57.66
CGTCTGGAAGTGATATGTGCTC	213	56.05
TCTTCTCTCGTTGCAGCCGTT	136	61
TTCGGTGAGAGGTTTCGAGA	342	60.48
ATCAATCTTATGGTCAATGTTACTGC	634	59.6
CGGAGGCATCAGAACCAACT	961	58.73
AAGCACCTCTGAACGCACAT	163	57
TCCGAATGACCTGAGCACTT	355	56.91
TCCGAATGACCTGAGCACTT	355	56.91
TTATGTGAACGGAGGATGGAA	1024	56.62
GAGCATGGAGATGGCAGCAG	948	60.48
CGCCTCCAATACACTCCACA	339	58.17
CGCCTCCAATACACTCCACA	370	58.17
GATATCTTGTGTCAGCGAGCTTGAC	910	56.91

GACCAAGCATTGTTGCCGTA	945	58.23
TGGAAGTGGTGAAGGACAATC	182	56.13
TTCAAGTCCTCAACACCAACGG	377	60.86
AATGTTCCACGATCTCCATATAATGG	722	60.13
ATCAGTTGGAATACGAGAAGAATACAC	71	57.14
CAAGAGAGCCGCTATCATCG	163	57.29
GACGGATTCCGGAGTTCAGACG	405	60.58
GACGGATTCCGGAGTTCAGACG	514	60.58
GACGGATTCCGGAGTTCAGACG	307	60.58
GACGGATTCCGGAGTTCAGACG	405	60.58
GACGGATTCCGGAGTTCAGACG	514	60.58
AATTGTCCTTGATCGCACTTG	167	56.44
CACAATGCCTGCTGCTCCAA	110	61.86
ATCTCTACATAATCTCCAGGCAATCAAG	549	60.17
ATTACAACAGCAGCAGCATAACAGA	714	57.8
ATTACAACAGCAGCAGCATAACAGA	714	57.8
ATTACAACAGCAGCAGCATAACAGA	714	57.8
TTGGAGAAGTTGAATGAGCAGA	1608	56.3
TTGGAGAAGTTGAATGAGCAGA	2048	56.3
CGTGTCTCAAGTATAATAATAACTGCGA	141	58.14
ATTCAGCGGATTCACTTGTGG	197	58.64
ATTCAGCGGATTCACTTGTGG	275	58.64
CTCTTCTCGGCTTGCTCCAT	27	58.23
CTCTTCTCGGCTTGCTCCAT	27	58.23
GCCGCCTGAAGATGAGAAGC	157	60.95
GCCGCCTGAAGATGAGAAGC	191	60.95
GCCGCCTGAAGATGAGAAGC	178	60.95
TTGTCAGCACGAGCCGTCTAG	64	60.16
AACGCTTCATTGACCATTCC	219	56.2
ATGCGTCGTTGAGTATTCCAG	250	56.47
CGGCTGGAATAATGGAGGA	477	58.72
ATATCTCAATCATCCAGTTAATATGCTT	476	56.06
CGACATGACCGAGAAGAGTCC	171	58.33
AAGCAACAACCAGAACATAGCTG	35	57.27
AAGTGCATCTAGAAGCCGGCTT	51	60.33
TTATTCAATGCCTCATCCATTG	50	56.27
ACGACGGCTTCTCCTTCTTC	32	57.21
TTGGAATGGAGAATGGCTGCT	97	60.52
TGTAAGCCTCCATTATGCAATCC	605	58.98
CTGGAGATCATTGTGAACAGTGTG	528	58.24
TGGAATGCTGTTCAATGG	1579	56.66
TTAACATCCAACGGATTTCGG	60	57.03
AACGAACGCTCCTATCCTCTC	551	56.3
TGTTCTCACAAGGCTTATTCAAGA	1538	56.91

GACATGCTTCGACTCGGCTCT	403	60.49
GTGGCTCAAGAAGGAGACGA	96	56.63
GATCAAGACGGACGATATCCACTT	230	59.36
GATCAAGACGGACGATATCCACTT	229	59.36
CCTACTTCACATTCAACTCATCACC	544	57.77
ATCATTACAGTGGCATCGCA	1041	56.21
CGACCGGAGAATCATTGACC	131	58.93
AAGTTGATATTGAGCCAGGAGAGG	688	58.81
TTCGCCACTTACACTTATGTTGAC	375	57.1
GCCGCTTCAATGGTGACAGT	183	59.7
GTGTCACGTATGGCATTCAAGG	1083	58.96
GATGTCTCGCCTGGTGATTC	257	56.68
GATGTCTCGCCTGGTGATTC	257	56.68
GCACCGATAGTTACCTCAGTCTCA	1494	58.47
GATGTCTCGCCTGGTGATTC	257	56.68
ATCTCTATGGACACCTGAAGCAA	1153	56.63
ATCTCTATGGACACCTGAAGCAA	179	56.63
TTCCATTAAGCCTTGTCACAGG	374	57.86
TTCCATTAAGCCTTGTCACAGG	354	57.86
TTCCATTAAGCCTTGTCACAGG	299	57.86
TTCCATTAAGCCTTGTCACAGG	305	57.86
CCAAGTGAATCTGTGACTAATGTGC	70	58.74
CACCGACTACGACGCCTCTG	1221	60.41
TACATCCTGAATGCCTTGCC	1760	57.23
TAGGATGTAATCTCAAGTCGCTGGA	611	60.08
CGACCAAGATAGTCAACGATAAGG	1551	57.92
GAATCGTAGAGAACACCTTGGC	662	56.61
TGCGGAGAGATATCTTATAGTATCCG	129	58.06
GCCAGACAGGTATTCTTCTGTTCA	85	58.44
AATTGCACAGTGTATTCTGTTGACA	154	57.44
ATGCGGATTGTGTTGTCAGA	547	56.11
ATGCGGATTGTGTTGTCAGA	588	56.11
CTCTCATTGCGATTCTCTTCACT	42	56.51
TCAGCTGCACCACTAACACAGG	89	59.93
AGATAACAGACTTACCGATGAGGAG	257	56.04
TTCGTTCACTTCTGCATTCCCTG	36	58.81
ATCTGCGAATAATGCAACGG	232	57.35
TGTGAGATATACTGTGAAGGTTGAAGTG	412	58.76
GATGTGCCTGCTCCATATCCAA	1235	60.78
GATGTGCCTGCTCCATATCCAA	1377	60.78
AAGGTGACTGCTTGAAGAAGGA	482	56.83
CAATTCTCGTTGCCTTGTCG	184	57.96
AATCTCCAACCTCAACAATCACG	973	56.91
GAGAGATAGCCTCCTGCTTCCA	296	58.69

ATATCGGAATTGGTGTGGCA	435	57.35
CGGTGACGATGTGATTGAG	333	58.68
TTGGCTATTCAACGGCAGAA	1212	57.97
GATGATCTTGATGAGCAACTGACCA	442	61.29
ATGTCGTTGAGTCGCTTGTC	21	57.96
AGATGTCGTTGAGTCGCTTGT	142	56.13
GAGATTATGAGAGTGTAAGTACGCT	95	56.23
GAGATTATGAGAGTGTAAGTACGCT	150	56.23
CTGAGTGTTGCCAATGGAAGA	495	57.4
TTATTATTCAATCACTTCTACACAGCCT	775	56.99
TTATTATTCAATCACTTCTACACAGCCT	767	56.99
TATGCTCCGATTCCGTTCTC	117	56.45
CCTCTAAGTGGATGAAGTGCCT	122	56.24
TATGCTCCGATTCCGTTCTC	279	56.45
AAGATGATGGATTGGAGGATGA	2340	57
CACATTGAAGTTAGACCATACACGA	148	56.98
GTCGGAACCTGGAAGTCTGA	1013	56.3
GTCGGAACCTGGAAGTCTGA	1013	56.3
GTCGGAACCTGGAAGTCTGA	1013	56.3
GCACGAGTGACAGAGCAGAA	64	56.24
ATTGTACGAATGTGAGAAGCACTGTAG	958	58.89
TGAAGAAGATCAAGAGCATGTGCG	261	58.2
GACGGAGAGGACGACGACAG	200	59.41
CCAACACTCGGATGAGCATTACC	160	61.51
CCATTGCTCGCCTTGTATCTC	36	58.41
GGAGGTCTGATGGTCGGAAG	76	58.11
GCTGAGAAGCGGTCATTAGACC	88	58.98
AAGCGTTGAACATCTAGAATGAAGT	80	56.56
CGCAGTGGTGATAGGATGGC	74	60.06
GCTACGAACAGTTAGCAACGAGTAC	505	57.55
CGGCGATAAGATTAAGCAACA	134	56.77
GCTACGAACAGTTAGCAACGAGTAC	174	57.55
GCTACGAACAGTTAGCAACGAGTAC	319	57.55
CAATATCACGTCTGCTTCAACTTG	30	57.64
CGTCTGTGATCTTCAAGAGAAGTTCG	82	61.49
CGTCTGTGATCTTCAAGAGAAGTTCG	121	61.49
GGTTACTGTAGCTCTGTTAATGTTGC	64	56.62
GCTAAGTACGGTCTTGGAGGTCA	1245	58.46
AAGTTGTCGTGCCGAGACCT	438	58.4
GATGCCTACGTGACTGTGATGC	57	59.22
TAGTTGCTTCTCCGTTCCGTCAG	396	61.53
CGCAACAGTTCGGTTGATAGAG	334	58.51
AAGATGAGAACGGTGATTGCA	321	56.88
GAGCAGGTATCTCCAGCGTATAGAC	59	58.56

TTCAACTATACAATGTGTGGATATGAGG	187	58.43
TTGATATAGTGTCTGACCAACTTACCA	511	57.08
TTGGTATTGATGGAAGGATTGTC	2525	56.61
TTGGTATTGATGGAAGGATTGTC	2521	56.61
CGGATGCACTAGCTGTTCTCACA	105	61.28
AACGGCTTCTGAATGAGGCT	179	57.62
TGTGTGAAGCCAGTTCTTACAAGT	193	56.82
TGTGTGAAGCCAGTTCTTACAAGT	488	56.82
ATATCCAGATTATCCATCAGCAGAT	866	56.07
ATTCGGCTTCCACACCAACC	2571	60.69
ATTCGGCTTCCACACCAACC	2583	60.69
ATTCGGCTTCCACACCAACC	1581	60.69
ATTCGGCTTCCACACCAACC	1747	60.69
TCACAGGCACGAAGAGGAAG	1063	57.61
TTGTGTTAATGAGAGTGCTGTGTTG	937	58.04
AACCATCAACTCAATCCTTCATCC	644	59.21
AACCATCAACTCAATCCTTCATCC	831	59.21
CGTATTCACACGAGTACAGTCTGAA	102	57.22
GTAAGTATAACGACGATCAATACTCAA	208	56.78
TCGACCAGACGGTGGTATGC	263	60.49
GAGATATGGTTGAGATGAATGGAAT	677	56.34
ATATACGAAGAAGAAGTCACGACAGC	163	58.19
TCCTTATCGAAGTCGGATACATC	128	56.07
CAACTGCTGGAGGAATCGGA	1090	59.77
GCAAGAGAGTTGGCTGAACG	138	57.29
TGCTCTGAATTAATGAAGAATCATGTAG	1066	58.12
AAGCCGCTCGATCTATCTCTC	409	56.53
AAGCCGCTCGATCTATCTCTC	409	56.53
GCATTCACTCGTCTGGCTACA	386	57.58
TACGGAATTGGAGAAGGCAA	128	56.91
GGTTGCTCTTGTTGCCGATG	6400	60.21
GGTTGCTCTTGTTGCCGATG	6386	60.21
GGCATCAACTGGACACGTGT	61	58.01
GTGACAGATGGCGAGGTAGTG	1958	56.86
GTGACAGATGGCGAGGTAGTG	1954	56.86
GTGACAGATGGCGAGGTAGTG	1972	56.86
GTGACAGATGGCGAGGTAGTG	1978	56.86
GTGACAGATGGCGAGGTAGTG	1936	56.86
GTGGACAACCTGCTGGACAA	1464	58.14
TCTTGGTCCAGTTGTTGGCA	344	58.7
GCTGTAAGGCACGGATATGATG	328	58.22
TCGTTGGTGGAGTCATCGGA	311	61.02
TCGTTGGTGGAGTCATCGGA	606	61.02
AATGCCTCTTCTGGACTGACC	91	56.92

AATGCCTCTTCTGGACTGACC	91	56.92
ATGACGATATTCTTCAGGAGACG	209	56.16
GTGGCTGGTGTAACTCAACTCTGC	362	59.65
TTCCACTATGAGCCTTCAACAAGC	1334	60.56
TTGGAGACACGCATCAAGGC	49	60.75
CAGACATCACCTGCAATATTCCTG	91	59.49
ACGACCAGACGCATCGACAG	256	60.84
TGGAGGCTCATTAGTCAGAGGATT	130	59.25
ATGGAACCGTGTGGGCTACT	151	58.13
TTCGTGATATGGTGATCCAGAA	116	56.63
TCTAGCCAGTGGACAGGTTCTC	97	57.15
GCTCTCTGGTGTGGAGAACTCT	58	56.32
GCATACTGGTGTGGAGAACTCA	118	56.4
TTGTCTGTCAGAAAGGCGCTAGG	201	60.5
AACACTTATTGTGTGCAACCTGTC	112	56.92
GGAGGTCCAGGAGATTAAGAATCG	26	60.24
GAAGGAGCAGCGGAGAAGGA	529	60.55
GGCGGCTGGAGTGAAGGTTA	186	61.07
GCTCTCCTGGTTCTCACTACAAG	41	56.05
TTGTGCTCATGTTGGCTCCA	45	59.81
AACCATCCGCTCTTCCTCAT	80	57.27
CAAGTTATTACCACTCCGCCAGT	743	58.27
TTGTGTGTACTGTTGTGGTGTT	105	56.73
TTGAAGAATATGGCTGAGTTGGA	197	57.5
TCATTGACTATTACTATGGTGTTGGTT	762	56.18
GGATACGGATACGCCTCACC	95	57.95
GTAGGTGGTACTGAGACCAAGCC	98	57.84
TTATCCAGAGTGATTGGCAGAA	754	56.09
TTGGCTCAGCATAACAGTCTGA	346	57.26
GCCTCAACTCCAAGACCTCTAGT	159	56.87
GACGACGGTCAAGGTGGTAA	935	57.1
TTCCTCCTCGTCCTCATCGG	58	61.06
TCGGCACAACAGAGTCAAGA	954	56.52
AGTGACGAGACGAAGGATGTG	210	56.42
ATCATTCTGTCTTGTCATTGCTCTT	285	57.2
ATGATTGCCTTGTGCTCCAG	142	57.35
TTATGACAGCGATGGACCGA	1642	58.67
AATTGTTGTGGCCTATATTGGAA	304	56.36
GGCGGTTATGGAGCTTCAAG	428	58.4
GATACAGAACGACCTACACCAACG	675	58.62
AAGCAATGATTGGAGAAGCG	85	56.66
AAGTGTGATTCTGCCACCAGTTG	140	60.03
CGTTCAACTGTCACCGTGTCAA	411	60.58
ACACGGAATGTTCCGATAAGG	240	57.54

ACACGGAATGTTCCGATAAGG	240	57.54
TCCATCAAGCACAGCGGATT	418	60.18
TCCATCAAGCACAGCGGATT	443	60.18
TCCATCAAGCACAGCGGATT	70	60.18
GAATTCATAATCGATCACTTCATAGACC	731	58.5
CTGGCACAACAAGCAATGGT	1021	58.22
CTGGCACAACAAGCAATGGT	970	58.22
CTGGCACAACAAGCAATGGT	1097	58.22
CCTTCTCATCACCTCCACTTCG	62	59.69
GCAATTCTGGCGAATATCAGTT	33	57.04
ATTCTCTCAAGGTCGAAGAGTGTCTAAC	53	59.73
CCAATGAATCCACTGACTACGG	1245	58.05
GCATACTACTATCCGAGTTCCAAGT	84	56.04
CGAAGAATGGATGAAGCAGAA	180	56.65
CGAAGAATGGATGAAGCAGAA	146	56.65
CTACCATCACACTCATCTACAGTATCC	332	56.22
TGGACTGACAACCTCGGCTACT	463	56.13
GACTGACATCTCGGCTACTGG	455	56.06
GACGGCGCTTCAGAGCTACA	936	60.25
AACCAGGAACTCTTACAGAGCAA	183	56.03
AACCAGGAACTCTTACAGAGCAA	204	56.03
AACCAGGAACTCTTACAGAGCAA	403	56.03
TCAAGAATTATGAGCCATGTGAACT	47	57.91
ATCAATCAATGCCTCTCAACTATG	1360	56.15
ACAGGACCACCTCCACCAACA	492	61.19
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CGCAAGCAGAGTTAGAAGATAGATG	2048	57.69
CTCGGCTCAACACAAGACCA	736	58.45
TCACTTCCTCCGACACCTACA	311	56.84
ATTCGGAGACTGATACTGATACACAC	48	56.58
CTGGACTGTGTGCTCGGAGT	598	57.45
CCGTGTACCATCCAAGCAGT	211	57.13
TCTACCAACTCCGAAGCCACT	326	57.54
TACACGAACATTAGCGAAGCAC	1891	56.8
CTCAAGTCGTCGTCGTCAGTT	116	56.65
TTCTCGTTGCGAACTTACGTTGA	733	60.73
AGAGGAGTGGAAGTGCGGTT	270	57.45
AGAGGAGTGGAAGTGCGGTT	270	57.45
TCGAATCGAGCTTCTAGGTCTCG	41	60.9
TTCCAATATATTGCTATAAGTACGAGGA	296	56.96
GCTGATGCCTGTTGGAATACG	1056	59.18
GCACTGGAATCGGACAGGTT	819	58.59
TTATGGTTCAATTATGTTGAGAGTTACG	585	57.89
TTGTCTTATCTCACTAACGGATTGATC	795	57.95

AACAACTGGCCTCTTATCGGT	133	56.48
AACAAGTACGGAGGCACAATG	296	56.38
TGGAATTATTATTGGATTGTTCTGG	248	57.19
TGCAATTGTGCTGGCTGCTACT	153	61.76
TGCAATTGTGCTGGCTGCTACT	130	61.76
GAGTTGCGGCTGAAGGAGAA	132	59.14
GACAGCAGTACAACGATATGCAA	25	56.67
GAGTCAAGAAGCGTGCCGAGA	113	61.54
GAGTCAAGAAGCGTGCCGAGA	147	61.54
GAGTCAAGAAGCGTGCCGAGA	113	61.54
GAGTCAAGAAGCGTGCCGAGA	147	61.54
GGACATTGCCATCACGAAGA	403	58.09
GGACCAAGAAGAGAGCAACACT	102	56.29
AACTCAACACAACCAACATCTCC	991	56.73
GGATCGAAGGAGATTCTCAGAGA	896	57.66
GGATCGAAGGAGATTCTCAGAGA	1022	57.66
GTTGCTGGATGGATTCTCGT	56	56.23
GCAGATGGACCGTCAAGAAG	204	60.71
TCGATGACTGTCTCTGTTGGATG	71	58.8
GCTCGCAAGTTCACGGACAA	559	60.92
AGCAGCGTCACAGTGTCTTG	397	56.19
ACCGATGAACAGTGAAGATAGTGC	2080	58.34
ACCGATGAACAGTGAAGATAGTGC	2080	58.34
ACCGATGAACAGTGAAGATAGTGC	2080	58.34
ACCGATGAACAGTGAAGATAGTGC	1972	58.34
AGTTGGTGCTCAATGCCTTC	1077	56.45
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TTGAGCACGATGAGCAGCAC	743	59.72
TTGAGCACGATGAGCAGCAC	677	59.72
AATAATGAACAAGCACGGAACA	952	56.01
AATAATGAACAAGCACGGAACA	1162	56.01
AATAATGAACAAGCACGGAACA	1096	56.01
TTGAGCACGATGAGCAGCAC	638	59.72
TTGAGCACGATGAGCAGCAC	743	59.72
TTGAGCACGATGAGCAGCAC	677	59.72
CTACATTATTGCAGGAATCACTCATC	439	57.09
CTACATTATTGCAGGAATCACTCATC	415	57.09
GCAAGTGAAGAATCATTCGGA	2441	56.49
GTGGCGACCACTATTCGAGAT	207	57.75
GCCTGATTCTGAGATCGGAA	118	56.45
GTGGCGACCACTATTCGAGAT	207	57.75
TACATCTCGGAATCATACTTGGA	1101	56.51
TACATCTCGGAATCATACTTGGA	1092	56.51
TTCGGATCTTCTACTGGAGGAG	2095	56.3

TTCGGATCTTCTACTGGAGGAG	2119	56.3
CGACTCTGACCGCTTCAGTAAC	53	57.75
GGAGGAACTGGAACAACTTGC	1923	57.37
CGACTCTGACCGCTTCAGTAAC	53	57.75
GGAGGAACTGGAACAACTTGC	2133	57.37
TTCGGATCTTCTACTGGAGGAG	2119	56.3
GGATATCTCATCGCATTGTTAATATGTG	208	59.85
TCTTGCCGCTACGATGACTT	469	57.2
CCTGCAATCAATATCCTCGCA	286	59.64
AAGTGCTACGCCACATGGAT	897	56.77
CTATCGAATGTTCTACGTGCCA	463	56.6
GATTATGCGGTCAATGACAGAGT	1631	56.88
GATTATGCGGTCAATGACAGAGT	1631	56.88
TGGCTGCTACATTGGTCTTCT	439	56.19
GTATCTGATGGCAACAGCGAT	1373	56.4
GTATCTGATGGCAACAGCGAT	1345	56.4
GTGGATATTGGTCTAGCACTCATTG	407	57.81
TTCCTGCTGGTCTGTGCTGT	660	58.03
TTCTCTTCTCCGTCTGCCTAGC	33	58.87
CGGAGAGGACTGGTCTCGTGT	237	60.26
AACAACTTCGTATTGCATGACTTC	128	56.27
GGTTGCTCTCGTCACTGCTT	55	56.72
GCCTCTCAATCTTCATCCTGTTC	112	57.96
GTCTTCGGTTACTGTGCTCCA	777	56.54
GCCTCCATTGTTGTTACCT	552	56.14
TTGGATGCTTATCGATTATTGGC	165	58.97
ACGACTTACTGCCACTTGCG	1014	57.65
ACGACTTACTGCCACTTGCG	1011	57.65
ATTCGGATGAGACTGGCAAG	91	56.39
ATTCGGATGAGACTGGCAAG	138	56.39
CCACATCATTATGTCAATTGGCAA	332	60.4
GCAGCGTCGTTGAGTGTGGA	2285	61.97
GAATCAGAACAAGCAGGCAACT	51	57.23
GAATCAGAACAAGCAGGCAACT	51	57.23
TGGCTCATCATCTTCTTCTCAA	327	56.24
GATACTCGCAGCATTGACAGC	1454	57.21
GATACTCGCAGCATTGACAGC	1680	57.21
GATACTCGCAGCATTGACAGC	1408	57.21
GATACTCGCAGCATTGACAGC	1945	57.21
CTAATGATGCAATGAGCGGAA	1040	57.48
ATCAACTAACCGAGGACCTTATATCTGC	945	61.05
GGCGTAGTACTGGTGACGTCAT	167	57.75
CTTGATGGTTGCGGAGATTC	1105	56.8
ACCTCGGTCACAGCACAGAA	99	57.88

ATTCAAGCAAGCACAAACACG	48	56.06
TTGAGGATGTTCGTATTGAGAATG	157	56.97
GCAACGAGTGTGGCTAGTGAT	570	56.57
TCAACAAGCGAAGAGGAGATG	176	56.76
TATTATCCGAGACGAGAGAAGTGA	60	56.04
CAGGTGAATGCGATGCTTGG	267	61.13
TGACGATCTTGCTAGTATTCAGGTT	388	57.31
TGACGATCTTGCTAGTATTCAGGTT	384	57.31
GTCGGATGTCTGCGTCTCTT	268	56.49
TTCCATCTTGCCGGAGTTCC	85	60.9
ATACTCCATACGATGATATTCGGATTC	112	58.68
CGAGCCAATTCGGCTTCTGT	64	61.2
CATGTTCCATTGAGCTGGAGTAC	108	57.36
GCTTGCCTATGGAGGTAGCC	118	57.52
TTGTTCCATCTAGCTGATTGCC	82	57.95
GTGATGAATCGGCGAGCAGT	272	59.81
ATTCAATGGATTACGATATGCTACG	545	57.35
AACAATGGTGCTTCAGAGAGCT	705	56.86
TGCATTGCAGATTAACGCTTC	22	57.68
TTGAGCCTATTCTATCTTGTGCCA	819	58.93
GCACGGAAGCTCAGCATACAGA	1065	57.58
GCTTACTTGAATCGCCAGCAGTT	294	60.69
AAGAGCTTGATGTCTCCACTGGA	276	58.98
GGCTTGGACTTCTGGATTCTC	289	56.54
CGCTGTTGTCATAGATTGGCA	1273	58.39
GGCATTGTGGACGATTATTGG	491	58.75
GTGATTGCCTCGCTGTTGATAG	460	58.47
GAATCGGTTCAACTGCTCCA	117	57.32
GATTATCAGAATGAGCATGGAGCAA	319	60.38
GCTTAGCAGCCACTACTTACTGTTC	1025	56.9
AACTGCGAGAAGGCTGTGAT	46	56.2
AACTGCGAGAAGGCTGTGAT	46	56.2
GTCCACCACCTACAAGTATCTACACAT	160	57.66
ATTCTCGTGTTCAAGTGTGGTATTCCT	233	60.14
AAGGAACGCTCTCGTAATTATTCGC	111	61.8
AAGACCTCCTGAACCACCGA	264	58.17
AATGGAGTCTCGGTGGCGAA	108	61.48
AAGACCTCCTGAACCACCGA	276	58.17
AAGACCTCCTGAACCACCGA	469	58.17
CGGTGGTAGTTCAACGGAGA	73	57.26
CGGTGGTAGTTCAACGGAGA	95	57.26
CCAACTCCAGTTAAGCAGCGT	82	59.42
TTCATATACGATTGTCTCAACTACTTGC	145	58.07
CTATGCTCGCCGCTCAAGAC	252	59.7

CTATGCTCGCCGCTCAAGAC	270	59.7
CATTCTCCTTATACCTAATCCACTGG	957	57.42
TAAGGAGTCGGCTCTTCACG	344	56.77
TTATGCGTATTGGAAGCTAACTTG	1010	56.58
CGGCTATCAGCCAGTGCAGA	732	61.04
CGGCTATCAGCCAGTGCAGA	608	61.04
CGGCTATCAGCCAGTGCAGA	1022	61.04
CGGCTATCAGCCAGTGCAGA	522	61.04
GAGTTGGCTCATGGCTACAATG	141	58.33
GAGTTGGCTCATGGCTACAATG	191	58.33
CAGTTGCCAAGATCCACAGATTC	1095	59.59
CGACGGTGTTATTGGATTGG	663	57.41
CGACGGTGTTATTGGATTGG	702	57.41
ATAGACGCTTATGCACCGAACT	190	56.77
CGCAGCACAGTCAGAAGTTG	489	56.79
GCAGAGTTCAGTGGCAAGCA	86	58.76
TTGAGCACTGCAACACCACT	49	56.45
TGTGGATTATGGAGGCAACG	3202	58.03
TCCGACGATGACGACGATGT	75	61.05
TCCGACGATGACGACGATGT	64	61.05
TCCGACGATGACGACGATGT	75	61.05
TCCGACGATGACGACGATGT	75	61.05
TCCGACGATGACGACGATGT	64	61.05
CAACATATGATGGCTCAAGGC	303	56.8
GGAGATACCGTATGGCTGCA	968	57.26
GATTGTTTCAGCCGTTGTTGG	1944	57.66
CGAAGTGATGGCTATGTTGAGTG	1234	58.39
ACTATGAGTTGGTGTTCAATGGTGCTA	958	60.91
TTGAAGAATGACGATGGAAGTG	277	56.43
TTGAAGAATGACGATGGAAGTG	277	56.43
TTGAAGAATGACGATGGAAGTG	468	56.43
TTGGCTCCTGTCCTTGCTG	166	57.45
ATTCCGACCTTCACCGTCTATG	42	58.96
GGACTTGACACCAGTAGTTCTTGA	451	56.22
GTGTTGGACCGATTGAAGACGA	347	60.85
ATTGAAGAAGGTCTGGAAGTGTC	783	56.67
TGGCTGCTGCTCTGTCACTG	529	59.9
AATGTGGATTGCTTCCTTCT	235	56.53
GAACAACAAGGAATGGTAGGAATC	149	56.82
CGGATTCCTCGTCCACAGCT	85	61.12
GCCAGAACAAGTGAGCAACC	98	56.97
GTGCCAGATCACAAGTATAGTTCCT	45	56.7
CACGTCGGTGGCATAGCAAT	614	60.49
TACGAAGTGTATGTAACAGTTCAAGATC	1253	56.14

AGGAATACGAGTCACTGGAAGG	401	56.09
ACGTTCCGTTCTCTAGATATTGTTGG	45	59.79
GGTCCTCCAGATTCAATCCAA	1173	57.5
AATGAATCGACAGAAGTGGCGTT	1207	60.8
GATGTGCGTAACCAAGAAGCA	711	57.51
CGATGTGCGTGACGAAGAAG	826	59.03
CTAACAACGATAACGAACCACTACA	329	56.35
CACAGATCCGTCAGGAGGCA	1054	60.77
GGAACCGATTACTATGCTGGAA	1025	56.91
GGATAATGAACCGCTGATGAGA	1599	57.76
CTCATCGCTGTCATCGCCAT	129	60.74
CTGCCGATAACGAGAAGAAGC	46	57.85
TGGCAGCCGAGCTACTACTAC	873	56.11
AAGCAAGCCGACAAGGAGAC	1364	58.13
GATGGTTACAGTCAATGGAATAAGAGC	933	59.35
GATGGTTACAGTCAATGGAATAAGAGC	875	59.35
GAAGAACCATATGCTAACCATATCTACA	173	57.16
GCTTATCGTGGAGGACGTGCTA	1321	60.22
GCTTATCGTGGAGGACGTGCTA	1315	60.22
GCTTATCGTGGAGGACGTGCTA	1486	60.22
CGAGAAGAACATCATCAGAATACAATC	327	58.33
TGAGAGAACATTCATCTGTGGAA	81	56.01
AAGTTGGAGTTGTCGAGCTGA	191	56.26
TGCTTCTTCCAGTCATCCGT	103	56.91
ATACAATGACATCGCCATCCAG	133	58.4
GGCACACTAGGAACCAACGCA	1274	60.66
GGCACACTAGGAACCAACGCA	1034	60.66
TCAACATCGTCGGAAGCAAG	592	58.45
AACAGCCAAGAGGTGCGAAT	69	58.4
CACATTGCCACACAGTGCCA	1602	61.18
ATTGCCACACAGTGCCAACT	1605	57.67
CATCTTGTATTGCTGCTCCGT	51	56.62
CGGTTATTGAGCCAGTCGTT	1295	56.46
CACATTGCCACACAGTGCCA	1492	61.18
CGGACAGTCTGGTGGAGAGTT	353	57.84
GAATTGTGGATGAATGCCGAA	231	59.35
GGTCTCCGATCACTCAGTCTCT	61	56.1
GGACCTGCTAATCTGTCAATCAAC	163	57.84
TACTGAAGAAGAGAGGTGAAGGAGA	92	56.72
ATTGGTCTATGATGCTGAAGACTCGT	1703	60.34
ATTGGTCTATGATGCTGAAGACTCGT	1811	60.34
ATTGGTCTATGATGCTGAAGACTCGT	1745	60.34
ATTGGTCTATGATGCTGAAGACTCGT	1617	60.34
ATTGGTCTATGATGCTGAAGACTCGT	1811	60.34

ATTGGTCTATGATGCTGAAGACTCGT	1806	60.34
ATTGGTCTATGATGCTGAAGACTCGT	1690	60.34
CCAACGCAATGGACATTCTCA	352	60.45
GAGTCTCCAATTATGTTGCCAT	788	56.07
GAGTCTGAGATCCAAGAAGCCA	379	57.21
CAAGAAGCCAAGTTGGTATTGTTCT	28	58.81
ACAATACAATAACATGCATGCTGTG	39	57.72
TTAGTTGTCTTCACGAACCAGAGG	76	58.49
GACAAGCAATCGACGGAGAC	75	56.91
GCGAAGAAGCATTACGTAACCAA	66	59.31
CCAATGACAGAAGAGCAACACG	78	59.37
AACATGAAGCACAACCTCTATTCTG	59	57.01
CCTCTGGTTCGTGAAGACAAC	72	57.06
AGCCATCCATACCTCCACCA	150	58.81
CATTATTCATTATGGTTGTTCTTCTCT	191	56.47
CATCCATCTCTACTGCCTGCTT	2703	57.21
GTTCTGGTGGCTACGGTACCTATC	511	58.98
CAAGGTCCGACTGGAAGACC	300	58.17
GTTCTGGTGGCTACGGTACCTATC	65	58.98
TTGATGACGCAGAATCTATCGT	195	56.11
TTGATGACGCAGAATCTATCGT	235	56.11
CAAGGATGAGGCGTCGTCTA	169	57.51
GTTCGTTCCCTCCGGTGAGA	86	58.71
TCTCTCGTCGGCACTCACTAAC	153	58.21
CAGAGGCTTGTCAGTCATTCC	818	56.03
AGACCACGAACAGTCACGTATCATG	175	61.13
GGAGATAATGACAACAATGGAGGA	965	58.01
GCATATCGAATTGGTGACGTC	462	56.79
GAGTTCAATGCATGATGAGCTG	2397	57.04
GCAATGCCTTCATTCAATAGACG	877	59.59
AACTTAGTGATACTCGTGCTGGTCCT	784	58.79
CTGAGCCTGGTGTTCCGACTT	146	56.57
GGTTGGAGCCATTGATCAGG	627	58.93
GGCTGAATGGAATGCGAGAC	630	59.22
TCTACAATGTCTGTTGAAGCAAGC	39	57.4
TTATTGAGTAAGGACGGCAAGC	211	57.24
AGGAATCACTCTACCACCAACTG	520	56.02
ATTATTGGAGCATCGTTAGTGAGG	1359	57.48
AATGTCTGTTGCTATTGATCACGAT	69	57.81
AACGACCATCTCACTCTCGAA	36	56.03
ATGATGAGCGTTCCAGTGATG	52	57.21
GCATCCATCGCCAACTCAGA	77	60.72
TGGTTGCTGAAGTTACGAAGG	297	56.66
GCGTCTTCACAACAATCTGCT	2907	56.69

TTACGGTGAAGGATGAACAGG	558	56.29
TTACGGTGAAGGATGAACAGG	558	56.29
GAATGGAAGTTCATCACAGTGGAGT	174	59.41
GAATGGAAGTTCATCACAGTGGAGT	174	59.41
TATTGTCGACGAACGTTGTGG	367	58.15
TATTGTCGACGAACGTTGTGG	272	58.15
CGATTACGATGAGGAAGAGGTTA	83	56.28
AACAAGCGAGGAACGAACTG	100	56.68
TTCATCGAATCGAAGAAGTTACAG	550	56.46
TGTCTCACTCGTTGGCTCGT	491	58.03
TTGCTATCACTCTCGGATCTATTCTC	154	58.2
AACTAGCGCATCAGATGGTGG	712	60.59
GTATATGACGGCGGAGATGG	2405	56.6
GGACTGTGTGGATGCCTACGA	315	59.56
GGACTGTGTGGATGCCTACGA	315	59.56
TTATCTGCCTTACGGCAGCA	54	58.14
CCGCTTGTTGGAGTCTCTCTC	83	57.73
CTCACAACGGAGCAGCTCTCTG	327	61.2
CTCACAACGGAGCAGCTCTCTG	399	61.2
GCAGCCAAGGCATGTTACAG	194	57.99
GCAGCCAAGGCATGTTACAG	160	57.99
TGTGAATGTGATGTGTGCCGAT	355	60.79
TCAGTTGTGAACATAGTCGTTCCAAT	188	59.8
GCACATCTATCTCCGTTCTGACT	630	56.24
CGTCATCAACAAGAGTCAGTACAAGT	205	57.66
ATTATCGCATTATCATTGTTGCTGTC	581	59.32
GCGAATCCGAATGTACCGAT	192	58.47
AACTCACGCTGTTGCCTCAC	40	57.54
TAACAAGACGGAGAGAAGTGAAGA	250	56.16
TACCACCTGACACATCATCTCC	68	56.01
CGTGTTGAGATTATGGATGGATG	1049	57.93
TGCCAGCATTGACAGTGTT	633	58.88
CGGTGGAGATTCTTCCTGGTAT	1684	58.08
CGGTGGAGATTCTTCCTGGTAT	1679	58.08
GCTTGTTGCCTCCTGTGATG	438	57.89
GCTTGTTGCCTCCTGTGATG	445	57.89
CTTCTGCCTTCACGGAGGTCTT	541	60.7
CTTCTGCCTTCACGGAGGTCTT	551	60.7
TGAGACGCAACAAGAACAACACT	3752	57.13
TCCATCCAGACAAGAATCCAG	134	56.22
TCCATCCAGACAAGAATCCAG	271	56.22
AACTATTGACGTTGTGTCTCTGCA	112	57.62
GAGAGCGGAGAGCTTAGCGA	364	58.66
GACTGCTTCCATCATTGGTCCA	171	60.82

GA CTGCTTCCATCATTGGTCCA	171	60.82
GTGCCTTATCTTACCGCTTATCG	414	58.07
GCTACAGATGAGGATGCGTTG	2813	57.06
GCTACAGATGAGGATGCGTTG	2819	57.06
CGTGACTATTGGAATCTTGTGGAA	296	59.02
GCTGCCGCCGTTAGAGACAT	164	61.23
GCTGCCGCCGTTAGAGACAT	176	61.23
AATTGTAGATGATCTGTGTCCTGAAG	1137	56.69
TACGGTTGTTGTGTGGCAGTCT	889	59.16
CGACCGATACTTGGCTCTGT	428	56.49
GTGGAAGCCGAATCACAAGT	78	56.3
CGAGGAGGAGAAGACGGACA	14905	58.96
ACAGTTGATTGGAGAGTCGGAGA	1046	58.84
ACAGTTGATTGGAGAGTCGGAGA	1046	58.84
ACAGTTGATTGGAGAGTCGGAGA	1046	58.84
ACAGTTGATTGGAGAGTCGGAGA	1046	58.84
ACAGTTGATTGGAGAGTCGGAGA	1046	58.84
GGTCTCATCATCACACAAGCAA	94	57.26
GGTCTCATCATCACACAAGCAA	379	57.26
GA ACTCTTGTC CGTACAGGCGATA	89	60.46
TTCGCCTTATGCTGCTGGTA	75	58.14
CGCAAGGAAGTCAAGTCATCA	483	57.55
TTCTGTTCCATAACGCAGTTCTAC	245	56.41
CGCAAGGAAGTCAAGTCATCA	193	57.55
ATCAATCAATAACTGCCGCTCA	686	58.33
ATCAATCAATAACTGCCGCTCA	593	58.33
ATCAATCAATAACTGCCGCTCA	550	58.33
CCACTCCTCAGGCAGATGCT	277	58.99
CCACTCCTCAGGCAGATGCT	369	58.99
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TTGGACTACTGATGACCACGATT	684	57.22
TTGAGCTATTGATGAGCACGATT	1350	57.66
TAGCCAGCGGTATGTCAGGA	87	57.93
TTAGTGATCGGAGAACGCAAG	468	56.74
AATAAGACAGATGACGTGGCAA	53	56.03
CGGACTTGCAGATGGAGTATG	493	56.91
AGTGGTGAAGATGAAGAAGGTGA	1465	56.55
GTGATGATTCCGGCTAATTACATGCA	197	60.95
GCCTATCTCTCCTGCTCTCTGC	631	58.47
AGTCGCAGGTGTCAATGGAG	205	57.32
CATGTGCCAAGGACACAAGGA	24	60.51
TTGGAGTCAGTATAGCAGACAGTTCA	85	58.22
CATGACGTA ACTATGCTAATGGTGA	253	57.04
ACGGTGTGGTCAAGCCTGTA	1065	57.67

TTGTATCGCTTGGAGTCATCG	1441	57.45
GGATGCCAGAGGACTTGTTG	274	56.75
GTACAATGCTGTCTTGGATATGGAA	583	58.14
GTACAATGCTGTCTTGGATATGGAA	695	58.14
CGTCGTTGTGCTTGTTACTAATCAG	497	61.88
CAAGAATATAAGATTGGAGAAGCATCA	552	58.07
CATAACGAAGAGGAGGTGAACG	335	57.49
GAAGACTACAACATCATCGTCCGA	54	57.1
AGCAAGGACAACAACAGATAAGC	446	56.42
AGCAAGGACAACAACAGATAAGC	441	56.42
CAGCAACAACAGCATCCACA	1421	57.85
CCACGGATACCTCACAAGCC	388	59
AGAGCATCTTCACGGACAGC	298	56.65
GCGGCAACTAAGATTCAGGCA	536	61.17
ATTGGAACAGATGATTCGGATG	391	57.47
GGACAACAGTTGGCTGGTCT	108	56.24
GGACAACAGTTGGCTGGTCT	133	56.24
AATGTTCTTATTGATGATCGACGA	933	56.51
AATGTTCTTATTGATGATCGACGA	726	56.51
GATCTCAAGAATTGGCGGAGT	481	56.96
GATCTCAAGAATTGGCGGAGT	504	56.96
CGATGAACAACCTTGTCACATGATTC	459	59.4
TCTGATCATTATCGTGGTCTTGACAAG	762	61.42
TCTGATCATTATCGTGGTCTTGACAAG	773	61.42
ATTGATGTGGATTGGAGATGGC	458	59.62
AATAGCAGCGGATTCTGGAA	611	56.17
TTCGCTGCCGCAACTACTTC	124	60.11
TGTGTCTGTCAAGTTCAACTCTGG	108	58.03
TCTATGACAACCTATGACACAACCTAGGAA	197	56.5
CCGTATGCAACAGTCATCGC	167	58.75
TTCATCCAACGAATCGTCTCA	153	57.74
GCGTAATAGCAGTGTGTGGTGA	374	57.46
AAGTCGCATACGAATTGCTGGA	740	60.56
CATCTGTAGGAAGAACGAGAATAGC	764	56.64
CATCTGTAGGAAGAACGAGAATAGC	683	56.64
ACTTGTTCTGGAATCATATCACGCT	260	59.09
TGGAATCATATCACGCTTGTTG	265	57.26
GCAGGAGACCAGGATGTGATG	226	59.11
CTAGTGAAGAACAAGGAAGAACGTACAC	500	58.95
GGCTTACTGAACTCACTCGGAGT	317	57.72
TGACCAGAATGACAACCGAA	1920	56.08
ACTCGTCGTCGAAGGACATC	255	56.33
ACTCGTCGTCGAAGGACATC	255	56.33
TTGTATTGACTTCCGAGCGTT	231	56.17

AAGGACCGATGTTGGCTGAA	250	59.12
GGCGTTCCAGTCTTATTGCA	290	57.44
TTGTTGTGTTCAATATTCTCGGA	69	56
CAATGCGAGGAATTGTGACC	303	57.6
TTAGAGCATCAGTTATCAGACATCCT	408	56.52
TTCAATACAATAGATTGAATTGTTCAAG	70	56.1
AATGTGGAGGATGTGGAACCTCAATC	1655	61.22
GCCATCTACGCAATCCTCAC	79	56.83
TCCTGCCACGTAACCTTGCTG	650	58.52
TGACCAGTATGAGTGCTTCCTTC	254	57.1
AACCTTCCACCGTCTACCACA	926	58.03
CACCACAACCTACCACGACCGA	758	60.42
CAACACTCCAACGCTCAACG	1055	58.92
CAACACTCCAACGCTCAACG	1055	58.92
CAACACTCCAACGCTCAACG	1055	58.92
TCCTTCCTTGATTCTATTCATTCTG	98	57.51
GCCACAGAGAAGGAAGCCAT	131	57.93
GCCACAGAGAAGGAAGCCAT	131	57.93
TCTGGCGATGGACAACAATG	2938	59.08
TGACCGTACTTCTTACAATCATTCGTC	34	60.55
AACATCCAGGAGTTGCTCAAGAAG	421	59.76
CATTCGCCATCTTCATCAGC	82	57.85
CGCCTATCTCGACAACCTTCC	988	56.11
CGCCTATCTCGACAACCTTCC	1066	56.11
TCACGAACAGCATCAGAGGAT	666	56.93
CACTACATCAAGAAGTACCGTCGTT	306	57.56
CACTACATCAAGAAGTACCGTCGTT	563	57.56
GAATGAGCCACTGCCTGTTG	4684	57.89
GGTGCACGATGAACTGGACA	324	59.1
GGTGCACGATGAACTGGACA	325	59.1
ACATTAGTGAGATACAGCCGTGGA	376	58.71
GCAGTATGAACTTGTGGACGCT	97	58.01
CAACTAACCAACTCGAAGTCAACTCA	27	59.73
AAGTCTGCTCATATCACCAACAATG	111	58.27
TTGCCTCCGAAGCCATTAGC	1857	61.13
TTGCCTCCGAAGCCATTAGC	1100	61.13
TTGCCTCCGAAGCCATTAGC	926	61.13
CAGTTGGTGAAGGTGGACATC	544	56.52
CAGTTGGTGAAGGTGGACATC	544	56.52
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CCGTGGACATTATTACCGAGAA	411	57.63
CCGTGGACATTATTACCGAGAA	411	57.63
CCGTGGACATTATTACCGAGAA	138	57.63
CCGTGGACATTATTACCGAGAA	138	57.63

CGTCCAGATCGGAAGCAAGT	318	58.88
CGTCCAGATCGGAAGCAAGT	475	58.88
GGAGAAGGACTTGACAGCACCA	360	60.24
GGAGAAGGACTTGACAGCACCA	360	60.24
TTGTCTGAGCACCATATCCGA	765	57.77
TTGTCTGAGCACCATATCCGA	765	57.77
GGAGTTGTACTGCCTGGAACA	98	56.38
CCGTCTATGTTTCATGGAGTTGATG	5815	59.37
GTGTGCTGTCGCATTGACGA	598	60.44
AACGAACTGAGTTGTAAGCCAGA	1496	56.89
GATCAAGCAGCACCATATCC	412	57.68
ATCGATAGAGCGGTGGTGCT	146	58.37
TTCAATGCTCTCAGAGTCAACAAC	1357	57.29
TTCAATGCTCTCAGAGTCAACAAC	1408	57.29
TTCAATGCTCTCAGAGTCAACAAC	1231	57.29
TTCAATGCTCTCAGAGTCAACAAC	1235	57.29
AACGACATGCACAACGTGGTT	156	59.91
GCGGTGGTGCTTGCTTCTCT	144	61.42
GAGACGCAAGGCAGGCGTAG	81	61.91
ATAAGTTGCTTGGCGCTTAATCTG	75	60.95
GCGGTGGTGCTTGCTTCTCT	121	61.42
GCTGGAATGTGTGGCTCAATG	132	60.09
GCGTTGTCTGAAGTTGTCCGT	190	58.84
ATAACCACCATAGACGCAAGAGA	853	56.62
AGGAGGCTGTGACTGCTTGC	237	59.19
AGGAGGCTGTGACTGCTTGC	237	59.19
ATAACCACCATAGACGCAAGAGA	654	56.62
TCCGAATGATCCGAATGTTG	818	57.95
GGCATAATCATAGACGCAAGAGA	718	57.19
CATAACCACCATAGACGCAAGA	851	56.45
TAGACACAATCATAGACGCAAGAGA	585	56.95
ATAACCACCATAGACGCAAGAGA	720	56.62
TCCGAATGATCCGAATGTTG	619	57.95
CGTTACCATCTACCATAGGAATCC	596	56.78
CGTTACCATCTACCATAGGAATCC	596	56.78
GAATACAGCAGGTTGAGGAGCA	79	58.08
GGCGAGAACAAAGATGATGTCA	929	57.34
CGGAGAGAATGTTGAGCTTGCT	255	59.62
TTACGACGGAAGACGAGTGATG	95	58.84
ATTCCACCTAGTGTAGGCGTCA	53	57.38
ACGCAGACCTCGCGTTCTTC	60	61.42
TGTTGCGCTCTTCACTCACC	96	57.45
GATGAGAATGGTCCGCAGAA	354	57.26
GATGAGAATGGTCCGCAGAA	478	57.26

GATGAGAATGGTCCGCAGAA	417	57.26
GATGAGAATGGTCCGCAGAA	354	57.26
GATGAGAATGGTCCGCAGAA	478	57.26
GATGAGAATGGTCCGCAGAA	417	57.26
GATGAGAATGGTCCGCAGAA	478	57.26
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CCTGTAGTGTATGCCATCTGGTG	416	58.14
GGCTATTGTCACTGATGATTGTCG	726	59.5
TTGCTGACTCCATCACACACC	217	58.15
TTGCTGACTCCATCACACACC	177	58.15
TTCGTTGGACCAACTGTGAA	483	56.16
ATCGGAAGAGCAATGGAGCA	499	59.36
ATCGGAAGAGCAATGGAGCA	498	59.36
ATCGGAAGAGCAATGGAGCA	275	59.36
ATCGGAAGAGCAATGGAGCA	776	59.36
AGATTCTGTAATTGTTGAAGATATTCGA	102	56.92
GGCTGGACCACTTCTTGAT	819	57.63
AAGGAGGTGGAGAAGCGGAT	564	58.74
TTGTACTCGGCACTTCAGAA	876	57.09
TGGATCTGTTGTGTCAATTCCTT	43	57.19
TTGAGAATAAGTATGAACAATCATCAGA	335	56.46
TTCAACGCAAGTAATCGCCAT	461	59.2
CATGATGGAGCTGTTAAGGTGCT	462	59.27
CAGATGTGGAAGGCAGAGGT	381	56.33
AGTTCTGAGGATGTGTCTGATGTTG	394	58.32
GGCAACCGAGTCAATAGCAA	329	57.44
CTCAGAGTACGAGCAGATGGC	405	56.38
GTTATCAATGGCGCTTCGGA	344	59.63
ATGGTTCACTCTTGCTCTAATGATG	586	57.57
TGCGATCCTTAATGATCCAGAA	227	58.26
GCTGATATGATCTACAACCAACTTGA	983	57.52
CATTGCATTATATCTATATCTTCGTTGG	112	57.5
CGCTGGCACATTCTTCGTCA	513	61.86
GGCACCGGAGAAGAAGCTGA	74	61.37
CGGAATTATGATCGAGATATTGAAC	102	56.93
GAAGTGATCGTGTGCGAAGGT	30	58.8
GTCTTCTCGCTATGTGGTTGTGG	313	59.64
ATCTGCCAGTCAACACAAGGA	511	56.83
TCTGATAGACGGCCGCAGTA	1045	58.08
TGTGGACGAGAAGTCGAACGA	914	60.39
TGTGGACGAGAAGTCGAACGA	251	60.39
CATTCCAGTTGCAAGACCACCA	273	61.76
GCTGGACTTGATTATCACGATGA	734	57.82

CACTGGTCCTATCTCCTACAGTACCTG	179	59.52
AATTGTTTCGACATCCTGTATATAGAACT	444	56.06
CAACGACGACGACGACACAA	80	60.32
GCGACGATGACGAATACGAC	204	57.78
TTGTGAGGACTCTTGATACGC	326	57.93
GTATTCCACACAGCCAATTCATCAG	479	60.55
ACTACAACCTACCTCCTACCACAACCT	2967	56.15
TCTTCAAGGCAATCCATTCTCC	527	59.14
TTGATGTACTCGTCTATGTGATGGAT	810	57.69
TTGGCTCATTGGAATTATACTGAC	473	56.13
TTCTACTCTGGATTTCGGTTCGG	226	59.19
GTCCAGTTAATGTTCTGTACACACCA	216	58.11
TGTGTGTGATAAGAAGTCGCATT	725	56.11
CGACCTATCTACCGAACAACTATCAC	57	58.29
CGCAGACACCATTGACGACT	342	58.32
CGCAGACACCATTGACGACT	310	58.32
TTACGGATATGCGAACTCTGATG	348	57.91
TTGGATGACAGTATGATGGCA	570	56.03
TGTAGGCACCAATCACGAAGG	972	59.57
TTCGTGTAGAAGGTGTCGGTTA	192	56.11
GCTCCAACTCGCCTTGATCTTCT	192	61.94
ATGGCAATGGAATCAACGAC	149	56.92
TCGGAGGTGGAATAAGCAGTT	176	57.42
GGACTAAGCAGTTCGGAGGTGTA	196	58.46
AATATCCTAACAAATGCTAATGAACAAGC	334	58.34
AATGCTTCAGACGGTGGACTA	166	56.04
AACGCTGGAATCTGGTGGTT	461	58.11
ATTAGTTGCCGAGCGTGTGC	80	59.86
AATACAATGAGGTGGCAGATGG	1004	57.55
AATTGAGAAGCACATGATGGAAG	91	57
AATGATACACACAACGAATGGACA	1339	57.91
GGATAAGTTGGCATCTGAAGCA	452	57.95
GGATAAGTTGGCATCTGAAGCA	461	57.95
GGAATGATTGCCGAGTGTTG	318	57.6
AAGGTTTCGTAAGGCAATCCAC	1040	56.86
AAGGTTTCGTAAGGCAATCCAC	1071	56.86
AATGGAAGTCCGTGTTATATGAATG	301	57.18
AAGGCGACCAGAAGTTTCGAC	303	57.99
GTCTCCAGGAACGCAGAAGC	88	58.62
GTCTCCAGGAACGCAGAAGC	148	58.62
ATCACAAGTTGTTGTGGAGCAA	87	56.86
TGTTCCGAAGAGACTCAACCAGA	1522	59.86
TGTTCCGAAGAGACTCAACCAGA	1522	59.86
TAATATCCATTGAGATATGGAACGC	33	57.28

AGGTTGAACCGGATGTCATG	141	56.88
TTCTATCTGATAATCAATTCGACATGC	59	58.67
TTCTATCTGATAATCAATTCGACATGC	59	58.67
CCAGGAAGACAAGGAATGCC	647	58.18
CTGTGCACTCATCGGCTCCA	58	61.94
TTGCCTCCACAGTCTTCATCA	228	57.88
GATGAAGATTGTCGCAGAAGAAC	811	56.74
GTCTTACTGCGTCTATGAGAGCGA	1304	58.86
TGAACAGCTTGAACAACATGAAC	711	56.56
GAATGGTTATCTCGGCGTTGA	119	58.64
AAGACTCTGATGGAGGACGCA	780	58.48
CGCTCTTACAGAGGAGTGCATG	864	58.75
CCTCACCAGAACATCATAATCTTAGAC	64	57.51
TCGATCAACCATCTGTTGAGTTC	96	57.78
TTCAAGCAGACGAGCGAGTGT	906	59.77
GGATAAGAGTAGCGGTAGGAGGTCA	48	59.97
GGATTGAGGCGTGGATTAGG	46	58.07
GATGGACTGCTATTGGATTCCGG	173	59.4
GATGGACTGCTATTGGATTCCGG	330	59.4
TTGGTTCTGCTGATTCTTGGA	30	57
TTGGTTCTGCTGATTCTTGGA	30	57
TTGGTTCTGCTGATTCTTGGA	30	57
TTGGTTCTGCTGATTCTTGGA	30	57
TTGGTTCTGCTGATTCTTGGA	31	57
TCCAAGAAGGAGTGGTCCAG	866	56.31
CCTGTTGTGGCAGTAATCC	152	56.74
ACTTCTGGTCATCGCATCGG	57	59.65
AATTGTTGGCTCCGTAGAGCAAT	96	59.97
GTAGAATGGACGACGATGATGC	208	58.14
AGGAGCCGCAAGGAGTAATCAAG	973	61.77
AGGAGCCGCAAGGAGTAATCAAG	973	61.77
TCGATTCATTAGAATAATCCACTGTA	227	56.4
CCACTGATGGAGTCGAACACA	270	58.15
GTCGCCTCAATTGCACCTCA	97	60.75
ATGCGTTCACTCATCGTGCT	38	57.92
TGTCGTCACTCATCAGTTATCAGC	607	58.01
GGTGGAGGATCTGCTGCTGT	2128	58.85
TGTCGTCACTCATCAGTTATCAGC	607	58.01
ATTCATGCAATACGTCAGCTCTC	674	57.16
TTGAAGCAGGAGTTGATGGAA	803	57
GCTGCCACACGATGAAGTTGA	1150	60.8
GCTGCCACACGATGAAGTTGA	1150	60.8
AAGTGGTATGGAGGCAATGACA	186	58.05
CCTTGCTTCCAGCCGATACTTG	230	61.84

CGTGAAGGTCCAAGCAAGAAC	177	58.43
AATTGTTGTTGCTCTGAGCTTGCTT	1264	61.47
ATCTCCTGCCTATGCCGTTA	918	56.05
ATCTCCTGCCTATGCCGTTA	917	56.05
ATCTCCTGCCTATGCCGTTA	1016	56.05
GTGATGACGAACAAGCGAATG	243	57.83
CTGACACATAGTCTCACTATGAACTTCG	105	58.57
AGGTGGATTCGGTGGAGGAC	296	59.75
TGTTCCATTGTTCAACTGACTTCT	687	56.59
GCCTTGTTGCTCTTATTGC	47	56.38
GCCTTGTTGCTCTTATTGC	98	56.38
TTCTTGCTACCATTATTGGACTTG	66	56.33
GAGTATAATGGTTCGCACCTACG	25	56.61
GCAAGCAGAACATGCAAGATTC	95	58.59
AGAGGAGAGGAAGAAGCTGGAA	1030	57.47
GATGCGGAGGAGGAGTTGCT	251	60.31
GCTTACCGATTCAATGCCTACT	74	56.29
AGTCTCGGTGGTGATTATGGC	462	57.61
GATGTTGCTGATGCTTATCGGAA	37	60.05
CTCATTGCTGGAAGTGGTTGT	142	56.38
TGCCGTAATGCACCACGTAGA	663	61.02
GAGTTCGCCTTCGTGTTGCT	857	59.07
TGCTCTTCTTGCTGTCTCTTATGG	104	58.83
AAGAAGGAGTCTATCCTGACGGA	126	57.18
TCGCCGTAAGCTCTGAAGAC	129	56.92
ATGACTTCCAACCTCGTGACA	93	56.68
TGTCGAATCGCCAAGAGTTC	98	57.48
TGTCGAATCGCCAAGAGTTC	108	57.48
AATGGTGTCAGTGATTGTCCAA	100	56.49
CATATATCACCGATAGTGGATGTTG	163	56.28
TGACTGTGCTAGACTCGCTTCTTACTG	153	61.3
TGACTGTGCTAGACTCGCTTCTTACTG	153	61.3
GTCGCAGTTCATTCAAGGCTT	683	56.61
ATTACGATTACGAAGAGGATTATGGT	219	56.66
TGGATCAGAGGATCGGAGAG	170	56.33
ATTGCCTTGGATGACTATGGAA	731	57.18
CGATGAGAGAGCCAATGTCCT	470	57.95
CACACCTTCTTGCTCCAACCAG	158	60.64
GGAGCAACGAATGAAGGACA	706	57.32
AACTGTCAACTGCCAATCTGTGC	3535	60.17
AACTGTCAACTGCCAATCTGTGC	1255	60.17
AACTGTCAACTGCCAATCTGTGC	1272	60.17
CACAGAGTTGGTTGATTCGGA	329	57.25
CACAGAGTTGGTTGATTCGGA	329	57.25

CACAGAGTTGGTTGATTCGGA	34	57.25
GCAGTGAGGTCCAAGTCCAA	478	57.29
CGAACACGCTCACCGACAGA	1140	61.95
CGAACAAGAGCACCGACGAC	50	60.4
CGGCTCCAATGAATCACAGA	573	58.24
GCCACTACTGAATCTGTCAACG	907	56.12
AGCAAGTCTGTATGTCAGCCTCAA	1106	59.08
CGTCTTCTACGCAAGAACAACA	202	56.88
GACACAGTTCAATGTTGCTATTCACG	64	60.74
CGGCTGGTTCAACGACTACA	3228	58.37
GGCTCCTGCTCCTGTTCCAA	2953	61.23
CGGCTGGTTCAACGACTACA	2293	58.37
CGGCTGGTTCAACGACTACA	2662	58.37
CGGCTGGTTCAACGACTACA	2281	58.37
CGGCTGGTTCAACGACTACA	2650	58.37
CGGCTGGTTCAACGACTACA	3240	58.37
AAGAGCTGGATGGCATGTGG	1259	59.65
CCGCTAATCGTCTACTCGTTG	108	56.35
CGGACTTCACTAAGATTGGCTCAG	1187	60.23
CGGACTTCACTAAGATTGGCTCAG	1187	60.23
CGGACTTCACTAAGATTGGCTCAG	1193	60.23
GGCAGAAGTGTGGACTTGTCTC	655	57.5
TTGGATACAGTATTCATTGTTCTTCG	416	57.47
TTGGATACAGTATTCATTGTTCTTCG	395	57.47
TTGGATACAGTATTCATTGTTCTTCG	415	57.47
TTGGCAGTTACTGGACAATCTG	682	56.52
CGCAGGTATCAATGGATTTCATC	125	58.01
ATTACTGTAGGAATTGCGTTGAGC	345	57.65
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TTCTTCTGATTCCAAGTCTCATTCC	123	58.78
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CACTAGCAGATGTAAGCCTTGACG	1364	59.12
CACTAGCAGATGTAAGCCTTGACG	1364	59.12
TTGTGCTTGGTTCGGTGCTC	687	60.78
AATGAGAGCGACAATAGTCCAAC	58	56.22
AATGAGAGCGACAATAGTCCAAC	58	56.22
CCGACAACTGCTGGAAGTGG	688	60.25
AAGGTCAACTGGTGGCAATG	103	57.1
GGATGCACATGGAGCTCAATC	345	59.09
GGATGCACATGGAGCTCAATC	361	59.09
AAGAGGCAAGCGATTGTAGATACTAC	380	57.51
CCAACTACTCAAGCCTCGGA	409	56.62
CTGTCAGATGCTCGGAATCG	104	57.99
CTTATTCGGTGCTGTTCTAGTGTC	62	56.05

ATATCACTGGACGGCAGGCA	435	60.06
ATATCACTGGACGGCAGGCA	387	60.06
CTAAGAACTACTTGTTAGCACAATCCGA	118	59.36
CTAAGAACTACTTGTTAGCACAATCCGA	180	59.36
CTAAGAACTACTTGTTAGCACAATCCGA	180	59.36
CTAAGAACTACTTGTTAGCACAATCCGA	146	59.36
TTCGAGAGCATTCTCTCTCGGT	43	59.2
CTAAGAACTACTTGTTAGCACAATCCGA	180	59.36
CTAAGAACTACTTGTTAGCACAATCCGA	146	59.36
TTCGAGAGCATTCTCTCTCGGT	43	59.2
CTAAGAACTACTTGTTAGCACAATCCGA	118	59.36
CTAAGAACTACTTGTTAGCACAATCCGA	180	59.36
GGAGGAGGTGGCGGTAATGAC	754	61.53
ATGTGTCGGCACAGATGGAC	368	57.95
CAGAAGCACCAGGAGCCAAG	207	59.57
CAGAAGCACCAGGAGCCAAG	273	59.57
TTGGAACATTATTGCTGCTCAC	773	56.57
TTGGCAATGGTTGAGTACACG	47	58.15
TTGTCATTCTATGCCGTTCCA	149	57.7
CAGTATCTATGAGCATCTCCTGAACC	39	58.42
CAGTATCTATGAGCATCTCCTGAACC	100	58.42
GACTACTCTCAACGAACTTACCGACGA	93	61.96
CAAGATGAAGCAGAGTCACTCGGAT	2157	61.86
CAAGATGAAGCAGAGTCACTCGGAT	2157	61.86
GCAGATATGACAGCGACACCT	2548	56.5
GCAGATATGACAGCGACACCT	2678	56.5
CCAGCAAGGAACCAATAGAAGT	239	56.21
AAGATGGAGGAAGCTATGTTGG	281	56.15
CAATCTACCTCTTCGACTTATTCTACTG	122	56.48
GTGGCCGAAGGAGGTCAGAA	272	61.1
TTGCTGATATAATGCTCATAATGCT	397	56.12
TTGCTGATATAATGCTCATAATGCT	335	56.12
CGTCCACACCATTCTCCTTCC	44	60.31
AATCGTCGAGAGAAGAGCTGGAA	132	60.43
TTGTAGTGATTACGATTAATCTCATGAC	167	56.01
ATGGTTATTCTATTGGTGGTGGTG	3683	57.77
TCTCTGTTCTCTAACTTCCTGCGT	47	60.7
CATTACCTCATTGCTGTGCGAGA	33	56.61
TTCCTCGTCTATTGTCGTCTTGT	963	56.69
AAGTCATCAACGATTTCATTGACAGA	717	58.67
AAGTCATCAACGATTTCATTGACAGA	560	58.67
TTGAAGAGTGGTGGAGATGTGA	1478	56.82
TTGAAGAGTGGTGGAGATGTGA	1418	56.82
TTCATAGTATCAGGAATGACTTCTCAA	36	56.48

TGAGAATTATGCCAAGACTATGGA	663	56.65
GATTCATGGCTAGACATAGAACTCATG	375	58.36
ACTGCTGCTGTTGATGCACTCC	485	61.34
ACTGCTGCTGTTGATGCACTCC	401	61.34
ACTGCTGCTGTTGATGCACTCC	465	61.34
ACTGCTGCTGTTGATGCACTCC	488	61.34
ACTGCTGCTGTTGATGCACTCC	449	61.34
ACTGCTGCTGTTGATGCACTCC	375	61.34
ACTGCTGCTGTTGATGCACTCC	454	61.34
GATGCCAATAAGGATGAGAGAACT	384	56.68
GATGCCAATAAGGATGAGAGAACT	444	56.68
AAGGACGGACACTGATATGACG	85	57.67
TTGAAGGAGGAGTCAATTCGTC	95	57.01
CAGAACAGCCTATGGATCTGATG	1219	57.45
TGAAGTACATGGCTATTGCGGAA	357	60.42
TCATTATTCTCCTGACAGTGCTTC	29	56.35
GTCGTCAGACCAGATGCGAT	63	57.26
GCGAAGGAGACGACGACGAC	59	61.85
GGTGGAATGGCGAACGAAGT	737	60.82
ATTCTACTTCTTGGTGTCTTCTTGTTCA	1270	58.9
TGATCAACTTCTACTCCGTTATACCTC	85	57.26
ATTCTACTTCTTGGTGTCTTCTTGTTCA	1270	58.9
ACATTCTTCATCTCCGAGCACA	172	58.4
TGACATGGCACACAGTGAG	301	57.6
GGCTCGACGAGCACTCAAGG	87	61.96
GAGAACGAGGATATTCAACCGA	232	56.93
AACAGTCACAATGCAACCACA	209	56.1
TTGTACTCTTGAATGCCGCTGA	94	59.48
TGGTGGACTATCTTCAACTGGAC	214	56.81
AATCTACCATCGCTTCACTACCG	411	58.35
AATCTACCATCGCTTCACTACCG	441	58.35
ACTTCTGAGTTGGAACATCATCATG	87	58.19
ACTTCTGAGTTGGAACATCATCATG	355	58.19
GGTTGTCAGCCGTATCTTGC	712	56.89
AGTTATGTGTGCCTACGGAGTTG	1253	57.03
AACCATTGTCATATCCAAGCATT	53	56.24
ATGCGATGTAGAGGTCTTGATT	1751	56.15
CAATGTGAGCAGTGTGGCAA	565	57.85
GCACAAGAGACACGAATCAAGG	2045	58.45
CCAGCAACGCAGAATTCCTG	153	60.39
CCTATTAGGTTCTGGCACATCCT	89	57.39
GAAGTTGGTGGACTTGAGCGA	1032	58.91
GCGAACCGTAATCAGACAGG	1037	56.89
GTTACCTCTCACCATTCTCATTATCC	186	61.4

GAGTCGGTTCGTGTCGTAGC	816	57
GCGAACCGTAATCAGACAGG	182	56.89
GAGTCGGTTCGTGTCGTAGC	623	57
GCGAACCGTAATCAGACAGG	1037	56.89
GTTACCTCTCACCACCTTCCTCATTATCC	186	61.4
CCTCATATTGACTGCCTTCCG	596	58.27
CCTCATATTGACTGCCTTCCG	598	58.27
CCTCATATTGACTGCCTTCCG	351	58.27
TTCATTACTTGCTTGTTCGAATCAC	40	58.42
GTCTCGCTTCTTCGCACTCTC	82	58.03
GTCTCGCTTCTTCGCACTCTC	107	58.03
GATTGGAATTGAATTACCACTGTGTTG	287	60.62
TGCTGGAGATTACGGAGGTTA	719	56.11
TGCTGATCCTCATTTCGGCTAT	32	58.36
CCGCCTGAGATTACTCCAGA	103	56.55
CCGCCTGAGATTACTCCAGA	103	56.55
TATCTTCGTGAATACTCTGTGCCA	408	57.59
ATGACTATCTTCGTGAATACTCTGTGC	406	58.08
AGAAGATGCGAGAACCGTTCT	553	56.78
AGAAGATGCGAGAACCGTTCT	553	56.78
TCATACGTGCACTTAAGTACATTCATTC	212	58.7
TGGAGAGATGCCGTCTGGAA	839	60.3
GCTAGGCTTACGACTATTACAACACAT	779	57.42
GGTTGTCCAGTGGCTACTTATCTG	220	57.91
AGCCACTATTGATTCTTCTGAGGA	775	57.27
CGGAGATTATGTTGATAGAGGAAGTC	394	57.57
CATGGAAGTCTCTTCATTCGAGGAC	505	61.22
CCTCTCTTGCTTCGTTATGTCAA	60	57.33
GCAAGGTTGGAGAGTCAATCAG	119	57.53
GGCTCAAGGAGCAGATGATC	1206	56.02
TTCGTTGAGTTGGCACAGAG	202	56.06
ATGGCAGCTGTCAGCATCAC	360	58.42
AAGACCTCTCAAGATCCTATCGAGTATC	1903	58.85
AAGACCTCTCAAGATCCTATCGAGTATC	1337	58.85
ACTCACAATCTAACTCTTCAACTTCTCG	183	58.71
TACAGCAACAACGAAGAGAACG	916	56.88
ACTCACAATCTAACTCTTCAACTTCTCG	175	58.71
CGAACGACCTCTTCAGAAGC	804	56.33
AGATGCTCGTGCCGTAGTTC	304	56.64
AACTGCTTCAACAGCGCCATC	820	61.25
AACTGCTTCAACAGCGCCATC	757	61.25
AACTGCTTCAACAGCGCCATC	820	61.25
AACTGCTTCAACAGCGCCATC	757	61.25
AACTGCTTCAACAGCGCCATC	820	61.25

AACTGCTTCAACAGCGCCATC	757	61.25
AACTGCTTCAACAGCGCCATC	686	61.25
AACTGCTTCAACAGCGCCATC	757	61.25
AACTGCTTCAACAGCGCCATC	732	61.25
GGTGTACCGATATACCTTCATTGC	40	57.58
CGTCGTGTACCACACTAACAAAGCA	53	60.95
CTGTGTCGGTCATCTTGTTGG	188	57.65
GCTCGTCAAGAAGAAGTCCGT	411	57.28
GCTCGTCAAGAAGAAGTCCGT	411	57.28
GAACAGTGAAGTTGTGGCCGAAC	226	61.72
CAACAGATATGACAACCGTTGATAC	2205	56.39
AAGAACATTGGTCAGTTGGTAAGG	44	57.35
TGGAGGTCACGAAGAGCAAG	183	57.61
GCACAATCTATGAATGATTCAATCG	1187	58.56
TGCACAATCTATGAATGATTCAATCG	1187	60.94
AACAGTCGTGTAACGCCATCTC	95	57.87
CTCCAAGTGCTCCTGCTCCT	231	58.22
CCGATCCGATGAGTGCTGAC	282	60.19
ATGTCAGATGAATACAATTACACCGA	26	57.63
CTCAATGAGTTAAGCCAACACAGA	780	57.26
TTGAAGCTTATTGATAACTTGAATTACC	466	56.67
GCAACCTGCTATCACAATCCAC	547	59.65
ACCTTCACCATTGCCACCAG	1285	59.41
ACCTTCACCATTGCCACCAG	619	59.41
CTCGATTCCAGCGAGACCGT	92	61.25
CTGTGCTAGATCGCTGCT	150	59.33
AAGGAGTTGGAAGAGGCAGGA	418	58.91
GAGACATCAACCGAGACCGA	176	57.23
CTTATTGACACGCTGCCACA	77	56.97
AGTTCTGCTAAGGTCTGTCTGGAG	126	57.08
AGTTCTGCTAAGGTCTGTCTGGAG	126	57.08
CAGAGATGGTTCATATGACGGA	477	56.24
AAGTAATTCATTGCGAACGTCTCC	1087	59.52
AATGTGGTCTTGACTGGAGAACC	106	58.11
TTCCAGCACAACTTCCAATATGG	229	59.82
TTGGACGGATTATAATATTGTGTGC	318	57.98
AAGGCTGCTCTCAAGAAGAATG	533	56.64
GATAGGCTTGTCATACAAGTCACGAA	887	59.58
GCTCTGAACATGGAGATGACTATGAG	542	59.31
CGATTCAAGCATGAGAATATCATC	261	56.59
CGATTCAAGCATGAGAATATCATC	465	56.59
TTGGATGGAGATTGGAGTGGA	252	58.92
CATTGATGATCGAGGCGATG	699	58.62
TTGGATACGGTTACAGATGTGGAA	337	59.26

CATCTCAATCATCATCAGACCAA	440	56.22
AAGTATCATCTGCACATGTGTATCTCC	192	58.58
TGTCAATTCTCAAGACATTCCG	175	56.43
TTGATTGAGATGGTGACGGA	450	56
TTCTTCCAACGGCAATACGC	2339	59.67
GGCGACGATAATCCTGTCACTC	849	59.56
GGCGACGATAATCCTGTCACTC	1005	59.56
AATCATCGGAAGTGTGTTGTCAT	69	57.07
AATGAGAGAAGCTGAGGAGTGG	91	56.38
CACTGCGATGACAACACACTTC	196	57.88
TTCACAATTCAATCAAGTACTCTCACA	109	58
CGGACACTCCTGATGACAACC	130	59
GATGAGACCAACTATCAAGGAGGA	198	57.41
CTCGTATCTTCTGCTGACTCTTATGC	37	58.83
CATCGTCGTCGTAATCCACA	428	56.58
CCTCCTCCGTTGCTATTCTTCTG	1782	60.18
GCTCCTCAGTTCTCCACGTATGC	50	61.08
TCCGATTATTAGATGTCCGAAGG	670	58.16
TCCGATTATTAGATGTCCGAAGG	670	58.16
GGACACCACGAGGTCAAGAC	351	56.53
TTGGAGATGAGCAGTGAAGAAGAC	120	58.65
ATGAGCACAATTCCAGTCACAA	22	56.8
ATGCTGAGTGCCGTTGGATT	20	59.15
CCTCCTTCTTCTCCACCTCCT	88	57.49
TTACCGTATTCATATTCTTCTACTTG	88	56.13
ATCTTGATAACTGGCGCTGATG	67	57.97
TACCGCCTCCACAAGTTCTC	1167	56.46
AATGGCAATTCTCCGAACA	361	56.76
TACCGCCTCCACAAGTTCTC	1167	56.46
GAGGAAGATGCCGCTGAATG	71	59.36
CATTGGCAGTGTTATGTGGAGT	1208	56.24
TACTCTTGATGGCGTTCCGA	1774	57.91
GACAACCGATACAACCGAAGA	98	56.29
GACAACCGATACAACCGAAGA	66	56.29
GACAACCGATACAACCGAAGA	97	56.29
ACTGTTATGGCTGTTGCTGGAT	853	57.38
ACTGTTATGGCTGTTGCTGGAT	282	57.38
TCAACAAGACATCAAGCACTGG	398	57.47
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TTATTCGATATAGTTCCACAACCTCCA	72	59.95
CGAATGAAGTGTTCTGTTATGCC	77	57.44
AGTTGATTCTTATCTCGGCAGGT	96	57.15
AGTTGATTCTTATCTCGGCAGGT	201	57.15

TCAGAATCACACGAGCCGAA	153	58.96
TCAGAATCACACGAGCCGAA	69	58.96
GAATGGAATAGTCATATTGAATTGGA	336	56.43
ACAGTTATGAGCCACAGGAGGAGA	169	60.12
GGACTTGAGGAATACGAGTACTACTTG	182	56.99
GGATCAGCCAGTTCAAGGACCT	113	60.43
GGCTATGAGAAGCAAGCAACAGAG	289	60.47
TTACCAACTCCGACGATTCAAG	525	57.86
GAGGCGTGGAAGCTCAGAGA	933	59.26
AACTGCTTCTCGCAATGTCTG	525	57.72
ATCTTCATCTCCGTCTCCAACA	336	57.33
CGACTACAGATACTCAGAGCGGAT	1731	57.78
CGACTACAGATACTCAGAGCGGAT	213	57.78
ATAATGTAATCAAGAGTCTCAAGATGCC	42	58.35
CATTGACTTCGGCAACTGGT	21	57.26
ATGAGCTGTTCCACGGAGAA	83	56.91
TCCAGTTAGCCGAATGAGAATG	283	57.95
TCCAGTTAGCCGAATGAGAATG	273	57.95
AATTCGCAGCCTTCGAGCAG	475	61.46
ACAACAACAACCTCCAATTACCG	558	58.82
GAGCACTCACTTCCACATATCCTA	283	56.23
TCTCGGTGACATTGAACTGGAT	5448	58.11
TCTCGGTGACATTGAACTGGAT	5253	58.11
TCTCGGTGACATTGAACTGGAT	5380	58.11
AATATGGTCCTTGAAGGCAATG	370	56.77
CGATAAGAATCTTGCCGGAGA	136	58.02
CGATAAGAATCTTGCCGGAGA	207	58.02
CACCATTCTTCTGCCACACTG	25	57.81
GACGCACCGATTCTCTCTGT	94	56.49
TGTTCGCACACATTCGTGAA	369	58.27
CGGATTGAGTATTGACGTGCA	634	58.24
AAGGCGACGAACCTTGTTGGAT	638	59.59
CGAGAGTAGGCAGATGACACG	87	57.18
CGCATAAGGAGCGGTATACGG	186	60.4
CCAGCAAGCAATCAGGAAGA	1360	57.63
CCAGCAAGCAATCAGGAAGA	1788	57.63
CTCCAAGTTCTACAGTATTCCAGCA	1069	57.75
TTCGTCCAGCAATCAGAGTTC	229	56.6
CCTAGTGGCTCAAGATAAGAAGTGT	42	56.23
GGAACCTCTGAACAAGAAGTCTGACG	222	59.46
CAGTACAACAAGAGGATCAACAGC	721	56.76
ACTTGGTTAATGGCTTGTGGAG	595	56.93
CGCATAAGGAGCGGTATACGG	186	60.4
CCAGGCTCAGGATAATGTTCA	110	56.38

CCAGGCTCAGGATAATGTTCA	110	56.38
ATGGTCAATGGTCACATCTTCC	164	57.3
ATGGTCAATGGTCACATCTTCC	176	57.3
TTCAATGGTTCACTTCTTCCTTCT	69	57.16
TGGCTCCAGAAGAGGTCGTT	195	58.47
TTCGATGTGGATCCGTTCC	303	61.56
CCGTATTGGCTTGATTTCAG	1685	56.79
CCGTATTGGCTTGATTTCAG	1293	56.79
GTTCCTCAAGATAATCATGGAGATG	304	56.98
AACGTCTGAGTATTGCACATAATGATC	1054	58.62
AAGGTCAATGATGTACGAAGAGACG	1286	59.56
AAGGTCAATGATGTACGAAGAGACG	753	59.56
AAGAACGAGGTGTGGAAGAAGAAC	1049	58.84
AAGAACGAGGTGTGGAAGAAGAAC	1049	58.84
AAGAACGAGGTGTGGAAGAAGAAC	242	58.84
AAGAACGAGGTGTGGAAGAAGAAC	346	58.84
ACGGCTTAGAACAGATAGAGAACG	858	57.09
AGGAGAAGATGAGGACGAACAC	195	56.07
GGAATGCCACAAGGAATGCC	331	61.15
AATGGTATTGGAATTGAACGCT	303	56.37
AATGTTCTCCTCCAGATGAAGT	670	56.89
ATAAGCCGAACATGGTTATCAGTT	448	56.96
TTGTTCTTCATCCTCTTCGTC	1762	57.01
TTGTTCTTCATCCTCTTCGTC	1762	57.01
GGATTCTCACAAGGAGCACAG	369	56.03
AACTGATAACCATGTTCCGGCTT	67	56.46
TTCCTCAGAGTTGTCTGAATGGTT	608	58.74
ATTACACGGCGGAGCAGTTG	840	59.72
GGATATGAGTGCTTCAGGAAGT	161	56.63
AATTCAATGCACTGGATGAGCTATC	679	59.5
AATTCAATGCACTGGATGAGCTATC	778	59.5
AACCTGTCATACTAGCGTTAATGGA	177	57.15
CGTAGAAGTCGGCATGGACT	232	56.49
AAGAGCCGATTGTAAGAAGGAGAA	169	58.62
AAGAGCCGATTGTAAGAAGGAGAA	287	58.62
TTGTCTGGAAGCTGGTATGGA	292	56.88
TTGTCTGGAAGCTGGTATGGA	221	56.88
AAGTGTCGGTTCAGCAGTG	336	57.38
AACTATTCTGTGGAGCAGTTGAGA	878	56.04
AAGACAGTGATAGATGTGACGGATT	409	56.96
AAGTCGGAATGGACGCAAGT	240	58.25
TGCTCCATACAGAGAAGATGCGAT	164	61.02
AATGGAGCAGTTCGTCAAC	939	56.38
AACTCGCTGTGGACTGATTGC	74	58.94

TTAATGCTGGATGCACTGGA	1313	56.34
TTAATGCTGGATGCACTGGA	1307	56.34
TGCGTATGGCTCAACTATGGA	629	57.87
ACTAATTACAATACTCTTCGCAATGC	55	58.59
AACGGTACAGGAAGGAGTTGAG	430	56.16
GTGAGTCAGGAGACTGTTGCG	1012	57.11
GTGAGTCAGGAGACTGTTGCG	1009	57.11
GAATGGTGGTTCCTACTATTGGATGT	1150	57.81
GAATGGTGGTTCCTACTATTGGATGT	1232	57.81
GAATGGTGGTTCCTACTATTGGATGT	1397	57.81
GAATGGTGGTTCCTACTATTGGATGT	325	57.81
GAATGGTGGTTCCTACTATTGGATGT	1182	57.81
GGAGATGAGCCTGACGAAGA	761	56.56
CCAGATCGCCATCGTCATAG	92	57.73
GCAACAACGTATGATGAAGAGGA	101	57.07
GCAACAACGTATGATGAAGAGGA	101	57.07
CAAGAATGAATACACCAGCACAA	569	56.5
GCTCATCGTCAGAAGGTTCAACA	159	60.24
CAGAGCCAACGAAGGATTCTAC	3696	56.76
AAGATGCGAATATTGTAAGAATTGTG	350	56.81
AAGATGCGAATATTGTAAGAATTGTG	350	56.81
AAGGAAGCGTCAAGCCAAGA	822	58.66
AAGGAAGCGTCAAGCCAAGA	776	58.66
AAGGAAGCGTCAAGCCAAGA	815	58.66
AAGGAAGCGTCAAGCCAAGA	806	58.66
AAGGAAGCGTCAAGCCAAGA	816	58.66
AATCGTTGGCATCGGCTCTT	79	60.54
TTCAAGTGGAACCAGAACAGAA	157	56.07
TTCAAGTGGAACCAGAACAGAA	157	56.07
AGCTCCAGTGCTCTGGTTGA	96	57.19
CACTCCAATCAATGCAACAATG	24	57.62
TTGGATATTCAAGGCAACGAG	396	56.5
GCCATAGTAGAAGATCCGCTCA	286	57.24
GGCCACATATGACGTCATCAAC	68	58.78
AGTGGCAGCCGACATCTCAC	27	59.84
TAGCACCAAGAGCCAACAACC	58	58.83
ATCCGCATAGAAGGCACACA	113	57.78
CCAACCTCGCACAGACACAATC	33	57.81
TTCAGAGATGACATTGCAGTTGC	146	58.97
CTCATCAGAGAACCAGCATTCAACA	2599	61.43
CTCATCAGAGAACCAGCATTCAACA	2551	61.43
CTCATCAGAGAACCAGCATTCAACA	2483	61.43
CTCATCAGAGAACCAGCATTCAACA	2571	61.43
CTCATCAGAGAACCAGCATTCAACA	2599	61.43

GAGCTTGTCAGTTCGTCATTG	267	58.45
GAGCTTGTCAGTTCGTCATTG	267	58.45
AATGATGAATCTAGATGAGACAAGAGTT	474	56.17
ACACTAATCTCCATGATTGGATTGG	1081	59.13
ATGAAGAAGTCGCTCGTCCA	965	57.07
ATGAAGAAGTCGCTCGTCCA	1008	57.07
CACACCTCGCTCTGAATGGC	89	60.37
TGTGTTGCTCATTCCAGTTGCC	717	61.91
TATATTGTAAGGAACTTGCCATGATCC	983	58.19
TTGCATTAGCTCGATGTCTG	309	59.53
CAGTTGTCTGGTCCGAAGCC	1442	59.28
TTGACCGACCGAGTTACACC	681	57.1
ATCTGGTCTGGTCTTGGCACT	842	57.31
GTGCTCATTACAACGGCCAT	183	57.17
TGATTCTACATTAGCTCTAGACGAC	252	57.08
ATGCGGTAATCAACGAGAAGTG	90	57.88
ATGCGGTAATCAACGAGAAGTG	111	57.88
GCATTGGATTCTCGGTTGAC	2274	56.64
CCAGGAGTTATTCTGTCAAGTTCTTG	466	57.26
CCAGGAGTTATTCTGTCAAGTTCTTG	466	57.26
AATGGTTCAATGAATACAGATGTTAGC	750	57.79
TCCACACGAGTTCTTCTGATTG	219	56.53
GTTCAAGCTCTCGGAGCCACA	172	61.4
TTCTCTGGCAGTTGTAGTCTCGTT	217	58.27
TTGAACCGCTTGTCGCAATG	918	61.66
GGTGGATGCAATTATCATTATGTATG	976	57.44
CAGAGAGTTCTATGTAATTGTACCTTGC	879	57.08
CACGGTGAACACTCGGAATC	1039	57.58
TGTGATGAAGCCTATTGGAAGTG	331	57.87
TCAAGCTCACCTCTTCTGATGA	79	56.33
TCAAGCTCACCTCTTCTGATGA	123	56.33
ATTCGTCAGCCTCTTCTGTTCCG	1741	60.33
TTCAAGCCGGACTATTGTGAG	306	56.59
TTCAAGCCGGACTATTGTGAG	146	56.59
TTCTCAATACCAATAGAGCATCTCG	57	57.72
GCGAAGTCAATCGGTGGCAT	35	61.87
TTCAACACACGTCTTGACACA	874	58.68
ATTCGTTGCTCAGTTGGCTCT	44	57.69
GTGGAAGATAACAAGAACAAGAAGGAAGG	350	61.6
TGATGGTCGTCGTTGTGATG	737	57.45
CCGAGCTGTTCAAGTCGATCC	306	60.71
CCACAGCACATGATTGATGG	723	56.89
TTCAACTTCAATGGATAATATTCAACG	71	58.51
TTGGTATCTCTTATATGTTGTGTGACAA	176	57.05

TTGGTATCTCTTATATGTTGTGTGACAA	176	57.05
CAGAACAGTGCTTGGAATACTCTACC	168	58.51
CGCCAAGATTCAAGATGTCAC	218	56.88
AATGCGATACGAGAGATGTCAA	1277	56.11
CTCCTGACTCTTCGGTGAATCTTG	98	60.22
GCTGAGGAAGAGAGATGCGTT	287	57.37
CGCTGGTGAGTGTGAGCAACA	85	61.99
TTCAGTGGATTGGAATGGAAC	98	56.03
TTGTGCTCGGCGTAGTGTGA	34	60.02
AATGATGTGCGCGTTGTAATTGAC	88	61.83
GCTTCTTGAGTCCTCCGATG	42	59.79
AACAATATGACGGCGAGAATG	27	56.37
TTAGTGATTCTGGAGCGTGTTG	303	56.67
GGTAATAGCCTTCTTCTTCTCAC	95	56.4
GCCTTCTCGCATGGAATATCTAC	66	57.95
GTCCGCAACCATTCAATCCAG	203	61.18
AAGCGTTCAGTCAGTCTTCTAACC	673	57.03
AGTGGAGATGAAGTAGGCAGAATG	262	57.62
TCGGATGTTGTGCTGGTGGT	437	60.94
GGATGTTGTGCTGGTGGTGA	424	58.95
TATGAAGGCTGACGGATTGG	1186	57.23
TTCCGACGTGGTTCTTCTGG	496	59.66
ACGTCTCCGCTGAGGATATGG	559	60.06
TTCTCTCCTCCAACCTACCGAGA	42	56.77
TGCCAGTGCGACAATAGATACG	80	59.75
TGCCAGTGCGACAATAGATACG	102	59.75
TGCCAGTGCGACAATAGATACG	125	59.75
TCACTGTGAACGAGGAGCAG	321	56.08
TTATGAATGCGACAGAGCGTT	229	57.15
AAGAACAAGACTCCTATTAGCATGGATT	445	59.11
ATGATGGTGTGCTGGTGGTG	421	58.82
AGCGGTATCTGATGGCAGCA	1331	60.34
CTCCATCCGAGCAATCTGAC	422	56.85
GACACGATGCGGTGCTCTTG	671	61.36
CGTCATGCCATACTCTGAGTTC	110	56.05
AACTTGACCTGCTCAACAGATACTTG	182	58.95
TCAACTCCTCAGCTTCTTGGA	232	57.79
TTGCGAAGGAAGAAGGAGATGT	253	58.96
ATGATGGACTGTGCGACTGTTG	356	59.62
TGCGAAGGAAGAAGGAGATGT	253	57.61
CACTTAACAAGACTCTGAAGCTGATG	74	57.58
TTGCGAAGGAAGAAGGAGATGT	253	58.96
CTTGGAAGTTCTATATCTAGAACCAGCT	434	57.25
GAGGATGTTGCTTGATGATGTTAAGATG	843	61.86

AATCGGTCAAGAATTATGCAGTTC	75	57.45
CTTATTGCTGCCTTGCCACA	103	58.52
CTTATTGCTGCCTTGCCACA	103	58.52
CTCTATTGATCGCAACGGCTT	97	58.1
ATGAACTTCTCTCTATTCTTCGCTACTG	53	58.11
ATGAACTTCTCTCTATTCTTCGCTACTG	91	58.11
ATTCTTCGCTACTGTTCTCTTGACA	64	57.52
ATTCTTCGCTACTGTTCTCTTGACA	78	57.52
TCTGGTATCTGCGGAAGGAG	89	56.55
CGCCATCACATCTTCTTCAGT	81	56.47
ATACGATTCAGGCAGGACATTG	2916	57.69
ATACGATTCAGGCAGGACATTG	2793	57.69
ATACGATTCAGGCAGGACATTG	3129	57.69
ATACGATTCAGGCAGGACATTG	1828	57.69
ATACGATTCAGGCAGGACATTG	2164	57.69
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ATACGATTCAGGCAGGACATTG	2793	57.69
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TACCTATCGCCTTCGTCTCG	336	56.7
ATTACTCAAGATGGCGAAGGC	88	57.08
CATTCTTGGCATTCTCCGATA	56	56.43
AAGCAGCAGAGCCAAGAACA	111	57.44
GTCGGAGGCTATACGAAGGAT	532	56.09
GTCGGAGGCTATACGAAGGAT	620	56.09
TCAACGCTGCTGAAGAAGATC	1181	56.91
CGAGAGCACTATAACAATGAGAGAATC	955	57.87
TACACACGTGGCTCGTCGCT	55	61.41
CAGATGGTGGCCACAACCAG	158	60.93
ACCACAGTTGCTTCAAGATGC	83	56.53
ACCACAGTTGCTTCAAGATGC	127	56.53
GCCTCTTGTCATAGAGAATCTCGTG	108	60.55
TTGACAAGGATGGAATCTTCTGT	181	57.93
TCAGAGGAAGTGCTCGGACA	1124	58.11
TTCCAACGTCTTGTTCTGTGA	237	56.32
ATAATGTGTGTCGGCAGGAGAA	477	58.19
ATAATGTGTGTCGGCAGGAGAA	498	58.19
ATAATGTGTGTCGGCAGGAGAA	532	58.19
TATTATGCAGTGTGGTCGCAA	93	56.42
ATCTGAAGTTGCTGCCGAAG	985	56.77
ATCTGAAGTTGCTGCCGAAG	985	56.77
ATCTGAAGTTGCTGCCGAAG	1017	56.77
ATCTGAAGTTGCTGCCGAAG	1017	56.77
CTGAGCCGAGCAACAAGTCT	116	56.88
GCAAGATTAGCGGCTCTTCG	70	58.81

CAAGCAGGATATGCCGAATG	478	57.8
AAGAGCCGTCCGTTGGTCAT	50	60.46
TGGAAGAAGGAATGATGGAGAC	58	56.8
GTGGACGTTACATCAAGATTGCT	205	56.94
AACAACGAGAAGAATCACCGA	20914	56.01
AACAACGAGAAGAATCACCGA	20914	56.01
AACAACGAGAAGAATCACCGA	2182	56.01
AACAACGAGAAGAATCACCGA	2182	56.01
CTCGCAGTTACAAGCATCACA	2856	56.24
CTCGCAGTTACAAGCATCACA	2834	56.24
AATCTCGTTATTCTAATTCTGGAACAC	160	56.48
AATCTCGTTATTCTAATTCTGGAACAC	137	56.48
TTACAAGCATGTCAAGCAGTCCAT	344	59.66
TTACAAGCATGTCAAGCAGTCCAT	292	59.66
TTACAAGCATGTCAAGCAGTCCAT	255	59.66
TTACAAGCATGTCAAGCAGTCCAT	247	59.66
GCTTCGTTATCGGCTTGTTT	768	56.23
CGTCGTATTGCTTCTCCTGTC	73	56.19
AAGAGATTATACTATGTCGCAGATTGG	959	57.31
AAGAGATTATACTATGTCGCAGATTGG	1777	57.31
GTCACTCTTCTTGCTCTTCTTCTGC	43	59
GTCACTCTTCTTGCTCTTCTTCTGC	97	59
AAGTTGTCTGGAGCTGGAATGG	458	59.22
GCACGTTACTGTATTGCTGCA	620	56.24
TCGCCACGGAAGAGTCATCA	1117	61.3
AGATGATTGAGCAGATAATCGTGGA	239	59.94
AACAGGTTCAATTCGGTGGA	172	56.55
GGACTCGACTTCCAGCAGTG	70	57.03
GCTCGTCTTCTTCATCTTCCG	223	57.75
GTCGTCCTCCTATTCTCCAC	697	56.27
GTCGTCCTCCTATTCTCCAC	979	56.27
GTCGTGGTGGAGTCAAGCGT	148	59.73
GCCATGACTAATGCGATTGTG	116	57.72
AGTGCTGCCAACTTCCTGTT	1080	56.11
CCTATACTTACGACTTGGAGCCA	526	56.37
TCATCATTGACAGCTAGAGTTGTGA	209	57.7
TCATCATTGACAGCTAGAGTTGTGA	388	57.7
CGACCTGTTACTGGCACTGAA	142	57.49
AAGTGTCTCTGGCTGATGAGTGTA	505	56.8
CTCCGTAAGTTGAGCAAGAATAATCAG	2281	59.7
GACGCATATCCGATAATTCAGG	52	57.24
CTCCGTAAGTTGAGCAAGAATAATCAG	244	59.7
CCAGAAGCCGTTGACACCGT	986	61.96
GCTGTTCTTGCCGCTACTATTCTCA	485	61.86

GCTGTTCTTGCCGCTACTATTCTCA	439	61.86
ATCCATAATTCATTCATCTTATTGATGT	37	56.46
TCCGAGATAGTGACCGTGAGAGG	593	61.44
GATCTTGGTCACAACGATGGAT	110	57.44
CACAAGAGCCGTAAGAGATGAGA	92	57.39
GCTTCAAGTAGTTGTGCAGAAGTGTC	254	59.54
GCTTGTTCTCGGTGATGGACTG	1014	60.62
GCTTGTTCTCGGTGATGGACTG	1014	60.62
GCTTGTTCTCGGTGATGGACTG	138	60.62
TTGTTAAGACCTTCAAGACCTACGT	155	56.49
TTGTTAAGACCTTCAAGACCTACGT	155	56.49
TCTTCCAGGAGGTGTTTCATCA	240	56.74
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ATCACGAACCGCCAACAAGT	706	59.05
CTTCAGGTGGTGGTCAGGCT	1953	58.74
CCTGTGGTGGCGGTTATTGG	480	61.97
GTGACTACGGTCAGTGCTCCA	48	57.4
GTACAACTGGAGGCTGATAATATGATG	279	58.18
TTCCGACCAATGTAGTCGTTGA	79	59.07
ATTGAAGTGATAGCAGCCGACA	286	58.47
CGAGAGAACTTATGTTTCAGCCAA	138	57.33
GAGGAGGCAGCAGGAGGATG	682	60.84
GAGGAGGCAGCAGGAGGATG	682	60.84
CAGTCAGTGGTGGACAGTCACG	539	60.22
GAGGAGGCAGCAGGAGGATG	411	60.84
GAGGAGGCAGCAGGAGGATG	452	60.84
GAGATTGTCTTCTGTCAGTTATCAGTG	49	56.52
AAGAATAAGGTTTCAGAAGAAGACATCG	1011	58.55
AATGACAGGAAGACTGCTGGCTA	304	59.03
GGAATGATGAAGAGAGAGTGTTGTGAT	552	59.89
CCTGGAAGCGGAAGATGGAC	389	60.53
TCGCGTCAGAACCTACCAAG	387	57.57
TGATAAGAAGTCATCCGACGCT	85	57.58
AACATTGCCAACATTTCGGATT	924	57.91
TCGCTTCTCCTGTTCTTCGG	113	59.14
GATCTCGTCTTCGGATGATGA	71	56.3
TCAAGATATCGTCTTCGGATAACG	84	58.34
TCAAGATATCGTCTTCGGATAACG	83	58.34
TCAAGATATCGTCTTCGGATAACG	293	58.34
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AAGATGGCTGATGTGAATGGA	1044	56.66
TCAGAAGAAGGTAGCTTCAGCTTC	30	57.35
ACGGATCTCACTGCGTTCCT	168	58.35
ACGGATCTCACTGCGTTCCT	168	58.35

ACGGATCTCACTGCGTTCCT	168	58.35
CCTCCGAATACGACCTCTGTAG	386	56.65
CGAGTTGCTCCAGCTTCAGT	59	56.88
GTCCGCTCTACAAGTTAATCAACC	375	57.16
ATCCTGCAAGGAGTTCAGCA	437	57.07
ACGAAGAGACGGAGAGTGGTG	1866	57.99
CCTTGGTTGCTTATGGAGAGAC	267	56.61
TTAATCTTCTCGGAATTATTATATCTGC	82	56.01
GCAGTCACTGATAATGACGGATAC	192	56.48
GCCGACACTATGCTTATTCATG	169	56.12
CCGTACATATCCGTGGACGACTT	84	60.91
GAGATTCGAGATGGCGACTAAC	210	56.69
GAGATTCGAGATGGCGACTAAC	206	56.69
AACGATGTAACGCTTGACGGT	1967	58.25
CGCTATTGTTACGGTGCCAT	175	57.29
GGATACCACTGTGTCTAGAGAATG	193	57.79
ATTGAAGAAGGACAAGAAGGCTACT	96	57.06
TTGGAGCAATTGTAATCACAGC	581	56.57
TTGGAGCAATTGTAATCACAGC	581	56.57
CGATTGCCGTGGACTTGAAC	356	60.07
TTCAGAATGCTCTTCTTCAACCA	33	57.73
CGTTCTTCGTGACACGAGAAG	51	57.21
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ATGGCATCGACAGGACCTAA	20	56.67
AGTCCACTACCAGAAGAAGTCATTG	113	56.77
AGTCCACTACCAGAAGAAGTCATTG	113	56.77
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AATAGAGAACCTCACTTGACGAATG	1037	56.81
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AATAGAGAACCTCACTTGACGAATG	1037	56.81
AAGAGTTGTGTGACGGAGACG	2048	56.49
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AACGATGATTCTACAGTTGTTGCGA	76	60.81
AACGATGATTCTACAGTTGTTGCGA	33	60.81
CCACAAGAACTATGTCACAAGCC	433	57.42
CCACAAGAACTATGTCACAAGCC	439	57.42
TGGTGCTGTGAAGAATATCAAGG	651	57.87
AACCATTGATTGTGGATATTATAACAAG	337	56.89
AAGCCACAAGAAGTCGGAGCA	2256	60.87
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GCCGCCTACTTGTTCTTCT	7223	57.18
GCCGCCTACTTGTTCTTCT	2480	57.18
GCCGCCTACTTGTTCTTCT	2369	57.18
GCCGCCTACTTGTTCTTCT	3605	57.18

GCCGCCTACTTGTTCTTCT	3338	57.18
GCCGCCTACTTGTTCTTCT	7112	57.18
GCCGCCTACTTGTTCTTCT	3494	57.18
GCCGCCTACTTGTTCTTCT	3227	57.18
CCAACACTCTTGTCGATTCACTT	100	57.02
AATGCTGCGATTCTTCACTCTC	71	57.32
GACGGAGCCGGACACGTAGT	327	61.04
TTGACACTATTATTGCGGCTATCG	543	59.19
TTGACACTATTATTGCGGCTATCG	543	59.19
CGAGCATACTCAATCCAGAAGTG	489	57.65
ACCGACTGAATGGATGCGTCT	84	60.47
AAGCGGATACACGAACGGAA	1763	59.17
TGGAGAGTCTATCTATATCGCAAGC	367	57.08
TTCTTCATCCTTACCTTCCTCACT	473	56.37
TTCTTCATCCTTACCTTCCTCACT	490	56.37
AAGAAGGAGCAACAAGGAGAACA	124	58.19
AGAAGCTTGCGAGGTGTGCGT	59	59.64
GCTTGCAGGCCAGGATAGAAG	45	59.94
GAGGTTACGAGAACGACCA	57	57.29
CCGCCTAATAGGTCCTCGTT	63	56.96
TGCTGTTGTCATTGTGATTCTG	307	56.79
CACACAAGTCACTCTATTCTCTCA	173	57.27
ATTGTCCGCTCTCGTCGTCA	404	60.37
AACACACATACAGTCCATCCATTG	374	57.4
CTGGACAATCATATCGTGATGTGC	66	60.21
GCATTCAAGTTGGACGAGGCT	124	58.88
ATGGAAGACGGCAAGCAAGC	544	61.21
CTGAGTGGTGGAGGATCATCG	244	59.1
CTGCAATGTCTGCCGCTAAG	748	58.28
CTGAGTATGCCAAGCCAACC	370	56.89
CTGCAATGTCTGCCGCTAAG	373	58.28
CAATGTGTGCTGTAGATGTTCTG	461	56.47
CAGGTCGTTATCCAACACGGAAG	73	61.52
GTATTCTATCTTGTGAGCGTGCGT	84	58.53
CTATCACTGGCAGCGATCTCTCA	185	60.48
AACGACTGAAGAGGATATTAAGGC	1806	56.07
AACGACTGAAGAGGATATTAAGGC	1658	56.07
AACGACTGAAGAGGATATTAAGGC	1773	56.07
AACGACTGAAGAGGATATTAAGGC	1612	56.07
AACGACTGAAGAGGATATTAAGGC	1773	56.07
TGTCATTGCTCTTCTTGTGCTC	36	56.83
CGAATCCAAGTGTCAATCC	71	57.97
CCAGTTCCAGACTACAAGCATCC	417	58.77
CCAGTTCCAGACTACAAGCATCC	570	58.77

AGCTCTGTGCTGTGCTTCAAG	32	57.11
AATACCATCCTTGCTCTGCGA	34	58.41
CAGCAGTTGTTGAAGATGAAGCAT	3464	59.43
ATCATCAGGACGAGAATCAAGAG	2867	56.15
CAGCGAAGAGAAGATGCGTAA	152	57.04
ACAGGTGGAATATATAACTTCTCGGCTT	51	60.66
TTGAAGAAGTTGATCGCTGCA	103	58.24
TGAGAGCAAGATTCGTCGTG	242	56.15
CTCAGATATGCTCAACTCTTCCAA	301	56.49
GAAGCATAGTCTCCGATTGTGG	301	57.44
CCAACCACTCCTTCAACACC	657	56.5
ATGCTGCTGTATATGATGTTGGAG	3755	57.02
ATGCTGCTGTATATGATGTTGGAG	3761	57.02
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GCGACACAGCAGATACCTCCA	549	59.85
GCGACACAGCAGATACCTCCA	549	59.85
GCGACACAGCAGATACCTCCA	578	59.85
GCGACACAGCAGATACCTCCA	549	59.85
GCGACACAGCAGATACCTCCA	578	59.85
GCTTACCAACCACAATACCAACAG	216	58.53
CCAACCTTCGTGGATTGCCAA	122	60.44
ACCGATTCAAGTGCCGATTGTG	835	61.76
TTGTGCTTGTTCTGCTTCCG	62	58.64
ACATAGTTGATTGAAGAGACGCAGA	167	58.16
AAGAGAAGGAGGACCTGCGA	56	57.66
GAAGCGATAGAGACCTTCCTCTT	47	56.21
TGGCAACGCATCCTCAACTG	219	61.72
TTCATCTGATACAGCTTGTCTTCCG	372	60.56
AACAGTCGGCAAGACTCTACGA	54	57.75
TGCAGTTCAATCAATGAGCAA	883	56.55
ATGATGAATAGAGGAAGGAAGAGGT	91	56.7
GGATATAGTGAACAAGGAATGAAGG	714	56.17
GGATATAGTGAACAAGGAATGAAGG	238	56.17
GGATATAGTGAACAAGGAATGAAGG	214	56.17
CAATGGCATCTACGATGGCTCA	172	61.8
TGAGAAGAACAATGGAGAGAAGG	2008	56.34
TGAGAAGAACAATGGAGAGAAGG	1274	56.34
TGAGAAGAACAATGGAGAGAAGG	916	56.34
AGATATGTGGTACGAGACTGTGAGAA	60	57.16
CTACCGTAACCAGCCAGACAA	57	56.54
TAGCGACGAGCAATGAATCTG	54	57.75
GAAGAAGCCGAGAGAAGCGT	23	57.5
ACTTCAATTGTCTGCAATGTTCTG	859	57.92
CCTACCTGTGGAGCACCGTT	380	58.66

TATGACACTGACGATGACAACAAG	420	56.46
ATATTGCTGTGTTCTGCGGAA	151	57.01
TCAACATCAGTTCAACGTGGAC	121	57.16
GAGATATAATCACCTCCGCGAAGA	116	59.57
GAAGCGGTGGTTATCAAGACAG	157	57.49
TTACCTCGCAAGGAATACACCA	512	58.24
GTCACCTGGAACAGGAGGCA	775	57.29
TTGTCCTCCTTGGTCTTCTCG	75	57.97
AATGCGTGTTGATCCAGAGG	1219	57.2
AACCACTACTGCATCTCCAGCT	96	56.74
CGGTCTCGATGCTTCTCTACC	737	57.63
CGGTCTCGATGCTTCTCTACC	827	57.63
TGAGCAGTCGCCAATGTCTT	27	58.05
TGGTCATAGTAACGGAGAAGGAA	271	56.59
ATTGCTTCTACTCTACACCATCC	2139	56.63
ACGACAGCAGCAACGACGAT	758	60.43
GGAATCCAATCAGCGATGAATC	151	59.35
ACGACAGCAGCAACGACGAT	270	60.43
ACGACAGCAGCAACGACGAT	204	60.43
TGGAAGAAGTTAGCTGTAGGAACA	92	56.17
AAGACGTGTTAGCACAGCTCAA	454	56.49
AAGACGTGTTAGCACAGCTCAA	454	56.49
AAGACGTGTTAGCACAGCTCAA	375	56.49
GATGCGTCTGGAGTTGGATG	516	57.68
GATAACGGAACCTTCATGGCAA	407	56.34
GCCGTATCATCATCCGAGAGAA	799	60.01
TCTCCACTTCCAACCAATAGCA	1276	58.31
TCTCCACTTCCAACCAATAGCA	1474	58.31
AACGCCATCACTCGGATTCTTC	103	61.26
ATGAGGTCCAACCGTTGTAGAC	228	56.68
ATGAGGTCCAACCGTTGTAGAC	236	56.68
ATGAGGTCCAACCGTTGTAGAC	339	56.68
CGAGCAATAATCCTATGGTTGAGTG	146	59.86
ATCGTGACCGTTCCAAGTTC	1709	56.14
GCGAGGATTCACTGGCTTCT	80	58.08
CAAGCACCACAGTTGGAGAATG	932	59.23
GACCTGATGCTCCGACACAC	1544	57.65
TGCCGTTGGTCATGATAACAATG	130	61.41
AACTGTTGATAATAGTATAACGTGCGA	154	56.55
AGTCCAACGGTCGCAGACAA	55	60.26
AGCGAGTCTGAACGAGGAGGT	52	59.09
ATTGTTGACGTATGGTGCA	39	56.12
CATTGAGCAGTGTGTCTGTTGG	1192	57.88
CATTGAGCAGTGTGTCTGTTGG	965	57.88

CGGCTAATCGAATCAATATCTCA	1198	57.09
TCAGGAGTCGGAGTCTACGC	320	56.66
TCAGGAGTCGGAGTCTACGC	320	56.66
TCAGGAGTCGGAGTCTACGC	320	56.66
TCAGGAGTCGGAGTCTACGC	368	56.66
TCAGGAGTCGGAGTCTACGC	368	56.66
TCAGGAGTCGGAGTCTACGC	368	56.66
ATCAACCGAATCACCTATTGGATACAC	2270	61.21
TCCGAGATCGTGACTGGAATAGC	93	61.38
CAGCACCTACTACTCGCAGACCTT	1736	59.96
GGAATGGCGGATGTTGCTAC	22	58.99
GGAATGGCGGATGTTGCTAC	187	58.99
GGAATGGCGGATGTTGCTAC	22	58.99
GGAATGGCGGATGTTGCTAC	187	58.99
TGAGCCAGTTCAAGTGAGCCA	149	60.53
GCCGGTGATAATATTCATCATCA	743	57.47
AAGTGGTAGCCGACGAGGAT	44	57.35
AATATCAGTACAAGCAACCACCACA	69	58.54
CGGTACTGGCAACGATCTATCTC	1176	58.78
CGGTACTGGCAACGATCTATCTC	1395	58.78
TATTGATTGCTGGAGGTGATGG	369	58.51
TATTGATTGCTGGAGGTGATGG	673	58.51
CGGTACTGGCAACGATCTATCTC	461	58.78
CGGTACTGGCAACGATCTATCTC	765	58.78
AATTCCACCTCTTCACAGCAA	232	56.01
AGAGGCATGCGCAGAGAATC	90	59.13
GGTTAGCCTACGACATTCTCAATCCTT	594	61.88
AACACCAAGACCACCAGGATT	45	56.95
TGTTCCACGGTATCATCAATCC	6093	58.23
GTCCTGTAGAAGAATGGTCAAGTGA	2159	57.53
GTCCTGTAGAAGAATGGTCAAGTGA	2218	57.53
GTCCTGTAGAAGAATGGTCAAGTGA	2156	57.53
ATGGTGGAAGCGGAACAGGA	554	61.35
TAAGGATAAGAAGCAAGAGGACGA	817	57.48
GTACCGAATGCGTGGTTGTC	136	57.54
TTGTTCTCCATCTTGTATCCTGCA	747	59.6
CCAGGAATTGTCATAGCCGTT	111	57.68
GCAGTCAGAAGATCATATCAGATGC	307	58.07
TTCCGTTAGCGACTACTAGTGAGG	238	57.89
TGAACACCGATAGACCAGGAA	157	56.73
GGATTGCTGAAGCCGTA CTTG	393	58.46
GGATTGCTGAAGCCGTA CTTG	570	58.46
GGATTGCTGAAGCCGTA CTTG	432	58.46
GGATTGCTGAAGCCGTA CTTG	711	58.46

AACTTGTGGTGTTCCTATCATACG	250	56.02
CAAGGAACTCCGCTCTCACC	922	58.47
CAAGGAACTCCGCTCTCACC	769	58.47
AGTGCGTCTCTGGTGATTGC	70	57.48
GAAGTGGCTAGTTCGAACAGGT	163	56.3
ATCCTTGCGATCTTCCTTCC	298	56.88
CTGTGGTCAACTGTGCCGAT	347	58.16
CTGTGGTCAACTGTGCCGAT	347	58.16
CTGTGGTCAACTGTGCCGAT	347	58.16
CCACCTACCGCAGATGACGA	422	60.62
GAATCATCAACCGTGACAGAAGA	293	57.78
CCGAAGATACGACGATGACACC	107	60.33
CCACTTGAGACTGAGCAGCAC	155	57.27
CATCACCAGATACGGAACCAAGT	619	58.88
CCAGACCGTTCCAGAAAGTGT	518	56.24
GATTACTGGAGCGGTGGCGTA	48	60.94
GCAATGATGCTTCTCGGAAT	449	56.44
CGGATTCAGGCTCAGTCAGG	179	59.38
CCGACTAGTGAGGACATACAATTACTAC	602	56.87
TGGAGGAGGAGGAGGAGGAG	88	59.32
ATTCAAGTGGCGGAGGAGGT	78	59.53
TTGTATTAGTCTTGGCAGTCGGA	429	57.58
TTCTGGTGCTGGTGCTGGAG	57	60.95
AAGATGTTCTATCGTGGAATGCTT	411	57.11
TTGGCATTCAAGTGAGGAAGA	111	57
AAGTGGAGCCTCTTGGTTATTGATG	256	60.63
AAGTGGAGCCTCTTGGTTATTGATG	256	60.63
TCTGGCTGACTGTGATAACTGATG	490	58.01
TGCAGAAGAAGATGAATCGAGTT	807	56.88
CTGGCTGACTGTGATAGGTGGT	520	57.8
CGTCATCAATCTGAGCGGAA	532	58.39
CGTCATCAATCTGAGCGGAA	532	58.39
TATGAACCTGGAGACGATGAGAA	573	57.42
ACACGAGCTTAACACAAGGATTGAAC	105	60.7
AACCAAGTGCCGTGAGTGTGT	85	57.64
ATGACAAGTTCGGATTGGTGCT	505	59.47
TATGAATCTGATGATGTGGCGTT	1031	58.07
TGATAGAGTGACAACACCAGATGGC	660	61.21
TTGATAGAGTGATAACGCCTGATG	805	57.13
CGCTAATGGCAGTACTTCCAA	271	56.73
AGCCTTCCAGCACAACCGAT	318	60.59
GTGTCTGGCTGATGGAACCTG	3284	56.83
TATCCGAACTATATAACAATGCCACCT	495	59.16
ATAACAATGCCGCCTGGACCT	501	61.49

ACAAGTTCAGTGTCTCAGTCCAGGT	231	56.44
CCTTCCTCATCCTCGCTGGT	106	60.16
TGACGGCGAGATTCGTTGTG	292	61.72
CCGTCACTCCTTCTGATCACA	46	57.31
GCCGCCAGATGACAACACTT	944	59.7
GCCGCCAGATGACAACACTT	944	59.7
GCCGCCAGATGACAACACTT	944	59.7
TTGCCTTGCCTCTATCTATACGG	332	58.48
GCCGCCAGATGACAACACTT	433	59.7
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AAGACGATGGTTGACGATGAG	477	56.32
AAGACGATGGTTGACGATGAG	398	56.32
AAGACGATGGTTGACGATGAG	499	56.32
AAGACGATGGTTGACGATGAG	477	56.32
ATGATAACCTTCAACAAGTTGCAGCTA	1062	60.34
TTCTCCTTCTTCTATCTGTAATCTCTG	206	56.19
TTGAACCTGAAGAGTGAAGATGAG	651	56.42
CCAGTGTTCAAGCCAATTACGA	375	58.74
CCAGTGTTCAAGCCAATTACGA	375	58.74
CCAGTGTTCAAGCCAATTACGA	536	58.74
TTACAGTGAATCCGAATGGAGTAGC	202	59.53
TTACAGTGAATCCGAATGGAGTAGC	202	59.53
TTGGCTACTCAACTTCGATGTG	692	56.67
AATCTCAGGCAGTAACTCAAGGTT	704	56.45
ACGACGTTCAATCATTGTCAAGG	702	59.86
AACTATTGCTGTCCAGCACACTT	514	56.77
GACAAGACACCATCCATCAACG	277	58.9
AACGACAACGACAACGACGT	43	57.72
TGACACTGATGGATTGGATGAG	147	57.04
TGACACTGATGGATTGGATGAG	161	57.04
ACAATGCTTGGAGAAGTGTTCA	64	56.09
CAATTCACAATGTTTCGTGCGA	1624	59.17
GCTGCGAACTGGAGGACGAT	483	61.26
TCCTATTGAACTTGACCGATGACA	464	59.47
CTTCAACGCCATCTTACAGACAGC	86	61.07
ATGATACGCTTCATCTCCGTGTTG	880	61.15
ATGATACGCTTCATCTCCGTGTTG	994	61.15
ATGATACGCTTCATCTCCGTGTTG	1146	61.15
ATGATACGCTTCATCTCCGTGTTG	1183	61.15
ATGATACGCTTCATCTCCGTGTTG	994	61.15
TATGCCACAGTGTACTCCAAGATG	191	57.82
CATCGGCAAGTTCAGGTCAT	45	57.2
CCACCAGCGGAGAGATAGAG	61	56.15
GACATCCTCCTCGCAGAACCAT	646	61.31

GACATCCTCCTCGCAGAACCAT	1508	61.31
CATCACCAAGCACTCGTCGA	546	59.41
GAACAGTAATCGGTACTCCATTGCCT	310	61.57
TATACTAGAAGTAGTCTCGTGCGAATGG	315	59.34
CAGATTGGATTGACGAGGTGT	1302	56.16
CTACACGGAGGCTTCGCAGA	203	60.11
CAAGACACTCAGACTGCAATCG	2272	57.22
AACGCTTGAGACGATGATGAC	641	56.47
GAGTTGGAGTTGTTTCGCAGCA	549	60
AAGGATGTGTGAGCAGAGAGACC	282	58.48
GGCTGTTATATAGTTCGGCGAGAA	47	59.63
CGGCTGATGGTATTGTGCTAA	754	57.42
GGTGATGATGTCGCCATACG	1729	58.4
GATGAGGTGTTCCAGCCGAT	202	58.54
GGATAGTTGCGAAGAAGGAGAA	1759	56.4
GAGAGGTCCGAGAAGGCGAA	750	60.42
GCTGACCGAGGAGGAGAAGA	295	58.14
AAGACTATGCGGTGGATGGC	1102	58.61
AAGACTATGCGGTGGATGGC	1092	58.61
AAGGAGACTTATTACATGCTGCTGA	1708	57.43
AAGGAGACTTATTACATGCTGCTGA	1451	57.43
GATCTTGTGCGGCAACTGA	26	58.45
GGAGATCGAGTTCTTGTGGCT	294	57.07
TTGCCATCATGCTTGCCACT	734	61.15
GTCATTCGCTACGGATAACAAGA	3406	57.11
GTCATTCGCTACGGATAACAAGA	1375	57.11
GTCATTCGCTACGGATAACAAGA	890	57.11
CATTCTCTGAGGTTCTACGTGCCA	84	61.43
TGCAGTAGAGATAATTGCACAGC	178	56.08
CGTATTACCGTTCCGAGCGT	2071	58.72
GCTATCCAAGTTCCAGGCAA	1154	56.51
GCTATCCAAGTTCCAGGCAA	1130	56.51
TTACTTATCAACAGAGTGGATGGTG	396	56.15
CAACAATAACGATGAGCAGCGA	27	61.24
AGTGACGACCTGGTTCTGTTG	517	56.33
TGCTAATACTCTTGCTGACACACTC	772	56.65
TGCTAATACTCTTGCTGACACACTC	756	56.65
CTATTATTGGAATAACGTAAGGCA	25	56.82
CTATTATTGGAATAACGTAAGGCA	25	56.82
CTATTATTGGAATAACGTAAGGCA	25	56.82
CTATTATTGGAATAACGTAAGGCA	25	56.82
CGGAACTTGAGCCTCGGTCT	445	60.33
GGCAATCATGACTTGGAGGA	351	57.1
TCAACACTCTTCCGACGACTT	91	56.1

GCCTGGATGCTTCTCGTTGT	2815	58.88
GGTTCAGGACTCACATACTGGAG	64	56.43
CGGTGGATGACAGCGTAGGA	40	60.62
GACTGCGGATTGACGATGGA	402	60.58
AGATTGACGATGGAAGCAGCA	393	59.42
GATACAGAAGAATTGAGAGACGAGAGA	793	57.56
GAAGACTACAGTAACATAAGTGGTGGA	249	57.34
CTGAATGGAATGGAACAGTTATAGATG	584	58.16
AGTACAAGTTGGTGCCAGTCTCTATC	50	58.06
AATAATTAATAGGCCTTGTGCGCAT	52	56.35
CGAATGATGCGACAACAACA	981	57.7
GCACCGAACAACCTGGTAACTG	604	56.88
CGGCAACTCTCTCCAGCGT	135	61.41
CGTGTACCATAGTTCTGACTCTATTGCC	129	61.27
CTTGCTGTAGTTGGAACACTCTCG	384	59.12
AACCACAGCGACAGATACGG	1015	57.29
TTGATGCTTGCTATTGTGGCT	48	57.15
TTCTGTCTCGGAGAGGAGTCC	83	57.1
ATGAGGTCGTCGCCAATACAAC	332	59.84
ATGAGGTCGTCGCCAATACAAC	341	59.84
GTTGTCGTTGGTGGTGTGGA	42	58.84
CGAGACGGAACCTTGGCACTT	1566	58.92
CTCTCAGCGTTATGTGTGTCTACTC	96	56.15
CCATCCACCATGATGATGATCA	73	59.98
ACGATGGCTTGGAGGCTACT	62	57.5
GTTGTCGTTGGTGGTGTGGA	175	58.84
TTCAGCTAACTTCAATGAGCAAGG	724	58.74
TTACCGTGCAAGAATCCTGAG	61	56.59
GGATTGCTTCTCTCACTGCTTC	327	56.91
GCATATCAGTTGGATCTCAAGTGTC	823	57.85
GGTGGAGGTGGTGATAACGG	493	58.71
TTCCTAATTCTTCTCGCTGTTGCT	69	59.54
GTTGACTCTGTTGTTACTCCACCA	552	56.95
GCAATGTTGTGTGCAATGCT	220	56.8
TTATGTTCTCAACGGACAATCTGA	41	57.43
GTGATGCCACAACCAACAGG	96	58.42
GTGATGCCACAACCAACAGG	112	58.42
AATGCTCTACTTGGCGGTTCC	114	59.21
AATGCTCTACTTGGCGGTTCC	114	59.21
ATATGGCTCGCACAGGTCAA	430	57.78
AACTTGTCGGTGTTGCTCAATCTG	86	61.34
AACTTGTCGGTGTTGCTCAATCTG	88	61.34
AACTTGTCGGTGTTGCTCAATCTG	86	61.34
AGCTGCTGCTGCTGCTGTGT	80	61.06

GTGACTGAAGACGACCTTGACA	634	56.47
GTGACTGAAGACGACCTTGACA	837	56.47
GTGACTGAAGACGACCTTGACA	634	56.47
ATTGGACTTGGATAGGATACGGA	1124	57.55
TGGTGTGAGACTTGGTGCGA	4285	59.85
ATTGACGGCGACTTGGCTCT	329	60.73
CTGGACGCTTGTTATGCCTT	491	56.61
ATGGAGTTCACGGAGACAGAGA	954	57.45
GTA ACTCTTCACCTCAACTAACCGA	1253	56.87
GTA ACTCTTCACCTCAACTAACCGA	1253	56.87
AAGTCTGCGTTCGTGGCAGT	1166	59.5
GCAGAGCCAAGGAAGTCACG	134	59.57
TACAGTAACTATTCTGACGCTATCTCG	487	56.48
TACAGTAACTATTCTGACGCTATCTCG	487	56.48
TACAGTAACTATTCTGACGCTATCTCG	487	56.48
GGATGATGATTATTATCTCGGTGGA	120	59.08
TGGATATTATCAATGGAGGTGGAC	134	57.78
TGGATATTATCAATGGAGGTGGAC	99	57.78
TGTACGAGATTGAAGCCGAGT	1804	56.19
AGGCGATGACTCAGGAGCAGA	1566	61.02
CCGTTCTCTGCTTCTCTGCGT	48	60.65
GGATGAGGATAAGAAGCCACAA	1605	56.93
CGATGACCAACGGAATCACG	911	60.86
CGATGACCAACGGAATCACG	878	60.86
CACTGCGTGAGGCTCAAGGT	311	60.02
CCAATGCTGCAATGATGTCCT	263	59.54
CCAATGCTGCAATGATGTCCT	163	59.54
TTGATTGGTACGAGTGGAAGCTAT	435	57.92
CACAGGTTATGGTTACTCAGCATAGAGA	209	59.95
CACAGGTTATGGTTACTCAGCATAGAGA	340	59.95
CATACACACACACGCAGAGAGAC	83	57.02
CACAGGTTATGGTTACTCAGCATAGAGA	322	59.95
ACTTCCGAGGATACCACCTTGTC	2977	59.36
CTGCCGAACTGAACAACACC	371	57.79
AAGATGACTTCCTGGAGTTCACA	330	56.55
AAGATGACTTCCTGGAGTTCACA	400	56.55
TGCCTCCTCGTCATTACATCC	288	58.6
AATATGTA ACTACTCCACAATGGTATCC	425	56.16
ATTCCTTCGCTATTCATATTGATGT	152	56.24
AACTACTTGAAGGACAGTTATTGCTG	108	56.27
GAATGATGAAGGATGTGAAGGAC	522	56.24
CTCCAAGTTGATCTACGGACTCG	151	58.9
ATGTTCTTGATGTTGGCGTGT	660	56.66
GCAGTCCAGATCGAGCATCT	419	56.58

GAGATGATGAAGCACCATACTCAC	1069	56.49
GCCAATGGACAAGTTGAATCG	620	59.02
TTGCTCTCACGCAGATCCATA	416	58.07
TTGACCGAAGATGGAATGAAG	668	56.35
TCGCTTGAGAATGTTGGCTCT	875	58.67
TGCTCCGATGACGACGTCTA	201	58.98
TTGTTGTTCTGATGATGACGTCTA	158	56.1
TGTTGCTCCGATGACGACGT	158	61.22
TTCACTCGAATGTTACCACTATTAAGT	41	58
GTCTGGTGCTGTGCTGTTGA	252	56.94
TGTGTACTTGACCATTGTCGTGT	154	56.67
CCAGATTGTTGTCCACTTCCA	322	57.09
CCAGATTGTTGTCCACTTCCA	391	57.09
GCTTGCTTCAGTCTAGGTGGAT	538	56.38
GCTTGCTTCAGTCTAGGTGGAT	532	56.38
ACTGTGAGCGATTTCATGGACA	192	57.75
TTCATCTACAACCTAGAACGGTGTCAAG	378	58.87
CGAGGATGAGCTTCTATTGGC	709	57.65
CATCCACTACAACATTGCTGACTC	336	57.43
GCCTACGTCTCGCAGCTCTG	54	59.88
CTGGTGTTGGTGGTGGTGGT	98	60.14
GATTCACAACCAAGTCGGATG	1302	56.57
TGAGGAGCAGGAAGAGGAGCA	533	61.12
TTCTCGCGATCCTCTGCTTC	395	59.24
GGTGCCTTCTGCTACATGGACA	556	61
TTATCTTCACAACCTTCTAAGTTATTCTG	190	56.75
CAAGGCTGGACAACGTGGAC	166	60.12
TTCTACATTCAAGCCGTCACTCT	127	56.83
TTCTACATTCAAGCCGTCACTCT	438	56.83
GGCTATCATTGGATTTCGGAGGA	69	61.04
AATGGTGGAAGTGGTGGTGT	242	56.2
AGACGGATGAGTCGAATATTGTGA	2286	58.64
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CCAGTATGCTGTTGGAGGTCA	551	57.27
GTCGCCGTTATTCGTCAAGT	528	57.84
GTCGCCGTTATTCGTCAAGT	421	57.84
TGACAACAGCTCCAGCACCA	218	60
TGGATCACCTGTGGCATTGC	346	61.44
TGGATCACCTGTGGCATTGC	346	61.44
TGGATCACCTGTGGCATTGC	275	61.44
TGGATCACCTGTGGCATTGC	309	61.44
GATTCCAGTTCGTGAGTATCTCG	845	56.63
CAATCAGAGTCGTGCTGCTTC	316	57.3
AATTGACTGTTCTCCTCCTGGTAA	518	57.06

GGTCATGCTTACTATTACAGTCGTGA	601	57.6
CGGTGACTACTGCTACTGAGACTG	169	57.03
CGGTGACTACTGCTACTGAGACTG	169	57.03
CGGTGACTACTGCTACTGAGACTG	169	57.03
CCTTGCTCCTCGCTCCACTC	35	61
TCCAATCCGAGCACTAGAACC	66	57.87
TCTTGATTGGAGGTGATGCC	1095	57.1
CAGTAGAATGCGTGACAGTGGA	63	57.5
CTTATTGCCAAGCTAGAATTCTTGTTGA	293	61.07
TTGTGTATCGTTGGCTTGTTGT	359	56.85
ATCCATTGACTGAGGCGAAC	66	56.23
CCGTCATTCTTGTTACCGTACC	280	57.18
ATGGACAACATGCGGTGCTT	1577	59.96
ATGGACAACATGCGGTGCTT	1577	59.96
TCTCTGGTGATGCTGATGGA	1573	56.2
TAAGACGGATGCGAGACGGA	232	60.31
CTAACAACAACCTACAACAGGAGAAGG	113	56.56
GTGTCGCTGTATCTCAACAAGTGTGTAC	457	61.12
GTGTCGCTGTATCTCAACAAGTGTGTAC	323	61.12
CTCTGGCGGCACTCATTAC	536	60.37
TTAATGTGCTTATTATACAACGAACAGC	294	58.08
GTTCAACCAATTGCTCAACCA	114	57.18
AACAGGCAAGCAAGTTCAATG	86	56.65
AAGAGAGTGGAGCAGTGGCA	513	57.19
GGTTGACTGAAGCGGACACT	95	56.4
TTCATCATGGTGGACTGGACA	1040	58.35
TTGTTGCGCACAGATATGCG	76	60.38
TTATTCTTCCTATTCGGTTCAACTTCA	65	59.45
AATGTCAAGGAGGTTCAACCGA	41	58.09
GGCTCACTTCTTGCGCTTCTC	61	60.23
GATGCTGATGGAACAATCTGG	711	56.66
GATGCTGATGGAACAATCTGG	711	56.66
CCGCTTCCTTCTTCTTGCTC	33	57.88
TGGTCTGGTGGACAGCATTC	336	58.08
GAGATTCCGTACACATTGCCA	216	57.15
CTAGACCAGAGTCGCCGTCA	339	57.64
CCACCAGTTCTACCAGATCCA	105	56.16
CACATTACCGACTACCAGTGTCCA	78	59.8
CGATTGTGCGGTATGTGTATGTG	91	59.77
AAGTAACCGTCGTGTGCCAGT	558	58.25
AAGTAACCGTCGTGTGCCAGT	221	58.25
GTGAAGAACTGCGGACCTGA	492	57.45
GCCACACACACACAAGAATGAC	90	57.57
CTCACAGAACTCGGCAAGCA	328	58.75

CTCACAGAACTCGGCAAGCA	345	58.75
AGGTGCTCAAGGTTATCGGAA	474	57.42
AGGTGCTCAAGGTTATCGGAA	525	57.42
AGGTGCTCAAGGTTATCGGAA	525	57.42
AGGTGCTCAAGGTTATCGGAA	717	57.42
AGGTGCTCAAGGTTATCGGAA	514	57.42
CTCACAGAACTCGGCAAGCA	328	58.75
AGGTGCTCAAGGTTATCGGAA	559	57.42
GAAGATTATCATCAAGTCAATCGGAT	912	57.72
CAACGACTACATCGACGATTGTGT	454	59.93
ATGCGGACGGTTCTTCTACTTC	22	58.4
TGGAATTGGACACGCTACACA	437	58.63
TTGTATTGGTATTGGACTTCTGGAACA	291	60.72
CAGATGGACAAGGAGCGATGAC	701	60.59
TCTTGGACTTCTGCGGATGT	302	56.91
ATGAATGGAACGCACCAGTT	456	56.58
GCAATCTCCGACCAATCACTA	1585	56.37
GAATTAGAACGGAGCTACAGATCAGA	197	58.25
TCAGCAGCAACACCACCTACA	451	58.94
CCATGCTACTTCAAGAGAATTGGA	732	58.44
TGCACAGTCTATTATACAATACTCGACA	180	57.31
TGCACAGTCTATTATACAATACTCGACA	225	57.31
TTGCTTCCATCTCCTGTTCC	198	56.36
TGCCACTCAGATATACCGAATAACTC	210	58.68
GAAGAGCAACAACCATCAGCA	303	57.55
ATTCTATCAACTACTTGCTCACATTGAG	815	57.44
ATTCTATCAACTACTTGCTCACATTGAG	815	57.44
ATTCTATCAACTACTTGCTCACATTGAG	596	57.44
ATGGACGCTCTGAAGAACCTG	1139	58
CAGGAATGGACGCTCTGAAG	1140	57.07
AACTGGTTAGTAATTATCGCCGTCAA	896	61.83
AACTGGTTAGTAATTATCGCCGTCAA	896	61.83
AACTGGTTAGTAATTATCGCCGTCAA	1029	61.83
GGATGGAACAAGTTAATGACTGTCA	565	58.11
GGATGGAACAAGTTAATGACTGTCA	571	58.11
CAATGGCTTCTTACTGCTGTACTTC	180	57.48
CAATGGCTTCTTACTGCTGTACTTC	322	57.48
CAATGGCTTCTTACTGCTGTACTTC	180	57.48
CAATGGCTTCTTACTGCTGTACTTC	322	57.48
CAATGGCTTCTTACTGCTGTACTTC	180	57.48
CAATGGCTTCTTACTGCTGTACTTC	322	57.48
CAATGGCTTCTTACTGCTGTACTTC	180	57.48
CAATGGCTTCTTACTGCTGTACTTC	322	57.48
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CAATGGCTTCTTACTGCTGTACTTC	322	57.48
CAATGGCTTCTTACTGCTGTACTTC	180	57.48
CAATGGCTTCTTACTGCTGTACTTC	322	57.48
CAATGGCTTCTTACTGCTGTACTTC	180	57.48
CAATGGCTTCTTACTGCTGTACTTC	322	57.48
CAATGGCTTCTTACTGCTGTACTTC	180	57.48
CAATGGCTTCTTACTGCTGTACTTC	322	57.48
CAATGGCTTCTTACTGCTGTACTTC	180	57.48
CAATGGCTTCTTACTGCTGTACTTC	322	57.48
CGTTGAAGAGCACATTGAAGC	1024	57.24
CGTTGAAGAGCACATTGAAGC	1166	57.24
CGCCGAACATTGAATAGCATT	382	57.16
ATCCGCAGATGACCTCACACC	332	60.87
CCAACAATTGCTGTAGACTGCA	514	57.58
TGATGTAATGGAGAGAATGTTCAATG	961	58.13
TGATGTAATGGAGAGAATGTTCAATG	961	58.13
GAAGAAGGTGCTCGAAGCGA	1172	59.29
TCTGAAGAAGGTGCTCGAAGC	1170	58.41
AGCGGAGTTGAGATGCGTGT	687	59.46
AGCGGAGTTGAGATGCGTGT	878	59.46
GCGCTTCTCACTGAATCTGG	131	57.23
TTCGGAGGATGTGCAGTTGG	279	60.6
TTCGGAGGATGTGCAGTTGG	310	60.6
GGAATGAATGAAGCACCAAGC	303	58.25
CGAAGAACTCAGTCACCACACA	37	57.44
CGAAGAACTCAGTCACCACACA	119	57.44
CGAAGAACTCAGTCACCACACA	35	57.44
CAGGAAGATGGACCATCAACC	388	57.89
GCAAGAAGACGCCTCCTATG	99	56.27
CAATGTTCTTCTTCTACAAGTGCTG	334	56.24
GAGGCCGGAGATTCAGATCT	82	56.93
GGCTTCTCCAGTTCCTCCGA	111	60.28
GGACTATTAACCTGGTCCAAGCA	303	58.2
TTGCTCGGATGATGTGAAGA	484	56.34
CGGAGGTCCAGATCTTGGTG	82	59.09
GGTGCCTGCTCAAGTCAATG	64	57.89
GGTGCCTGCTCAAGTCAATG	64	57.89
GCTTCCATCAACTACGCCAA	704	57.44
GGTGTCAACTGCTCCGAATG	116	57.74
ATGGATCATTGGCCGGAATG	20	61.36
GAGAACCGTCAGCAGCAAGC	857	59.72
CGATTAACCTGGACCGAGAA	345	56.37

CCTTCTCTCCTTGTGGTCCTT	182	56.07
AATGATGATGGATGAGCAGGA	292	56.59
AATGATGATGGATGAGCAGGA	131	56.59
AATGATGATGGATGAGCAGGA	142	56.59
CACCAGCAATACATACTCCTTCG	210	57.47
CCATTACAAGCGACCGAGA	143	60.74
GATGAATCTGACAACAACAGTATGG	96	56.39
GTAGAAGATGATGAGGAGCCAGA	306	56.3
GGATGGAGGACTGAAGAGAGC	1595	56.58
GGATGGAGGACTGAAGAGAGC	1614	56.58
GGATGGAGGACTGAAGAGAGC	1051	56.58
TGATCCAAGAGTCATTCTGTTAGC	148	56.35
TCACAATCTGAAGAAGCATAAGGA	140	56.86
GCCAATCGTGAAGCTACTGC	68	57.19
TGCCTGTCTTCTCGTCGTTG	46	58.6
TTCATGGACAGATGGTTCCG	445	57.93
TGCCATTGTTGCGTTCAAGA	61	59.81
CCACTTCTGCTGCTCCGACA	153	61.09
TGACAGATTGGAGTGGAAGCA	116	57.88
AGTTATTACAGTGCACCATCACTACCG	950	60.49
AGGCTAAGAATAACTGCTGATGGAA	987	58.57
GCAAGACCGCCAGTAGGAGT	95	58.01
CTTCAAGTGCTGCGGACAGA	216	58.75
GCATGGATTGGTCATTGGAT	413	56.7
TCTGAGGAAGTTCTCACACGATC	107	57.13
CCGTCCGAGATTCTTATTCCG	72	59.51
CCGTCTGCTGCTCGTCAACT	51	60.16
TTGTCGTGCTGTTCCATCTCT	118	56.99
TTGTCGTGCTGTTCCATCTCT	56	56.99
CAAGTCGCATGTGTTGAGGA	581	56.82
AATCGTCGATTCTCGTTAGCC	415	57.08
CAAGTCGCATGTGTTGAGGA	527	56.82
CAAGTCGCATGTGTTGAGGA	323	56.82
CAAGTCGCATGTGTTGAGGA	417	56.82
CAAGTCGCATGTGTTGAGGA	344	56.82
GAGCGGCTTCTTCTCTCCAT	48	57.3
CGTAATGTTGTTGTCCTGTCG	95	59.19
AAGCGTCGGTACTTCACAACCTG	294	59.35
TCTGACTACCTGGCGGCGAT	48	61.63
GATTGGCAGTGGCAGGTGGT	52	61.83
GGAAGTGATATGCCAGAAGAACA	417	57
GCTGCTCTTCGTTACCATC	80	57.07
GAACGAGATTATGTACCGAATAGGC	412	58.24
GAACGAGATTATGTACCGAATAGGC	412	58.24

ATGATTGAGACGGCGAAGAC	813	56.39
ATGATTGAGACGGCGAAGAC	813	56.39
GAACGAGATTATGTACCGAATAGGC	221	58.24
GAACGAGATTATGTACCGAATAGGC	221	58.24
GAACGAGATTATGTACCGAATAGGC	233	58.24
GAACGAGATTATGTACCGAATAGGC	233	58.24
ATGATTGAGACGGCGAAGAC	575	56.39
ATGATTGAGACGGCGAAGAC	575	56.39
CGAATGGACAACGAATGCTCT	175	58.79
CGAATGGACAACGAATGCTCT	175	58.79
GCTCAACATCATCATCATCA	93	57.09
CGATGGAACACTCACTGCTGCT	66	61.33
GCTGGCAGATCACGATAAGG	103	56.98
GGAGAGGACGAGGAGGAGATG	2055	58.83
GTAGACAGCCGTGCCAACCA	308	60.66
GATCCAACTTCAAGTAGAGATGCTC	3255	56.51
GATCCAACTTCAAGTAGAGATGCTC	3413	56.51
GATCCAACTTCAAGTAGAGATGCTC	3573	56.51
ATCGGATGGATTACATTCACAGAG	409	58.03
CAGGATACGAGGATATTCAGCAG	1977	56.7
GGTCCGACGCAAGTAGTCTC	1706	57.54
GGTCCGACGCAAGTAGTCTC	1755	57.54
GGTCCGACGCAAGTAGTCTC	543	57.54
ATCACATCAAGAGAGCCGTCCA	313	60.59
ATCACATCAAGAGAGCCGTCCA	313	60.59
ATCACATCAAGAGAGCCGTCCA	313	60.59
ATCACATCAAGAGAGCCGTCCA	334	60.59
AAGGTTCCGGCTGAAGACACT	212	58.84
ACACGCTCTGTTGTGTACGC	94	56.02
GGTGGATGTTCTGTGCCGTA	977	58.02
GGTGGATGTTCTGTGCCGTA	969	58.02
GTACCGTATTCGGCCACCGA	95	61.55
CTCTGCGTTGTGGATTGCTC	400	58.05
CTCTGCGTTGTGGATTGCTC	416	58.05
CCGAGGAAGCTGTCTATCTGAT	176	56.32
GACACATCGCACAGCCACAC	2096	59.74
GACACATCGCACAGCCACAC	2102	59.74
GACACATCGCACAGCCACAC	2096	59.74
GACACATCGCACAGCCACAC	2102	59.74
GACACATCGCACAGCCACAC	2096	59.74
GACACATCGCACAGCCACAC	2102	59.74
GACACATCGCACAGCCACAC	2096	59.74
GACACATCGCACAGCCACAC	2102	59.74
GGTTGAGGAGACGGCGACTA	91	58.88

GGTTGAGGAGACGGCGACTA	214	58.88
CGGCACTTATTGAAGGTCTTATGG	640	59.85
CGGCACTTATTGAAGGTCTTATGG	325	59.85
CGGCACTTATTGAAGGTCTTATGG	136	59.85
AATTCTCCGACGTGATCCTTG	448	57.72
GGAAGTTCGGTATGGAGAATATGCTAT	635	59.94
CAGTGGTCGCCGACTCTGAC	304	60.42
CAGTGGTCGCCGACTCTGAC	270	60.42
GCCATCCGAACTTCTTGACA	239	57.32
TTCGGCACTTCACTCTACCTG	742	56.7
CGATACCATTGCAAGTGTTAAGG	292	57.41
CGAGATTGGTAGAGGACGAACG	323	59.72
AGATGGTGGAGTTCTTCTCAGTCC	86	58.77
TTGAACCAGATGAGGATAGCCA	1636	58.26
TTGAACCAGATGAGGATAGCCA	1774	58.26
GATGTTCTGAAGGAATTGTTGGA	1217	56.83
TCAGGAGTTGGTTGTTGGAGA	845	56.81
GAGGAGAAGGAAGAGGCGGAT	1212	59.75
ATGGCGGCTATGGATCTGGA	41	61.27
ATGGCGGCTATGGATCTGGA	41	61.27
ATGGCGGCTATGGATCTGGA	41	61.27
CGGTCTCACTATGGAACAGATCAACT	1624	60.69
TGAGCACAGCACAGATGAAGC	40	58.77
CGGTCTCACTATGGAACAGATCAACT	1469	60.69
CGGTCTCACTATGGAACAGATCAACT	989	60.69
ATGGCGGCTATGGATCTGGA	27	61.27
AAGCTGTCTTCGAACAGTCCA	83	56.26
AACTTGTAATCCTTGTGGCTATCG	2088	57.53
AAGTTCTGTGTGCTCCGATGA	808	56.99
AGACTACTACCGTTACCTCGCTGA	430	57.42
AGACTACTACCGTTACCTCGCTGA	430	57.42
AGACTACTACCGTTACCTCGCTGA	430	57.42
TTCAATTCGGCAACCAACTC	1051	57.26
ATTGGTGTGGATGCTGCTGT	320	57.61
TGGTCATGTGTTGTACACACTGT	1699	59.86
TTGGATGATGGAGAGTCGTATG	2419	56.24
TTGGATGATGGAGAGTCGTATG	2419	56.24
TGAGAAGATGAACAACACCACCA	304	59.08
CGACAACGACTACAGAATCAACA	800	56.6
ATGCCTGACATCATCCGACA	1133	58.47
CGTTCTCGATGTCTAATTGCTCT	82	56.5
AAGAGAACACCTTCCTCGTCAA	1636	56.68
AAGAGAACACCTTCCTCGTCAA	1636	56.68
GCATCGGAATTGTCTGTTGG	272	57.6

TGTTCTTCCACGCAGAGAG	721	57.61
AAGCTCTGTGTATTGATGCAGGAA	322	58.94
TTCGATACAATCCTCCTTGACAT	197	56.39
GCGGCTACTCTATTCTCTCATTG	336	56.19
AGTGCCGTTTCATATCTGAGGAG	2161	57.06
TTGAAGAACCACCACCAAGACC	226	59.83
ACATCTTATCAACGTTCCGCAA	1401	58.25
ATTAGTGCTCTGTGTGGCTGCT	1180	57.78
CATGAGCTTCGGCTTCCAAT	404	58.87
TACGAACACCTGAAGATAGTCCAA	744	56.66
TCACCATCATACGACGAGGA	34	56.04
TGTCGTCTCGTCAGCCATCA	1042	59.97
TACGAACACCTGAAGATAGTCCAA	667	56.66
TACGAACACCTGAAGATAGTCCAA	744	56.66
AGACCGACGTTGCACTTAATACC	292	58.27
TCATTGATTGTCCTGGTGATGTC	251	61.78
GCCAACACCGAGACCAGTTG	307	60.12
TCACTGAAGAAGACACGGAGAA	569	56.25
TCACTGAAGAAGACACGGAGAA	569	56.25
GCGAATTGAGCAGTGATGATG	165	57.92
AAGTGAACATTGTTGATAATCAGCTAA	254	56.53
AAGTGAACATTGTTGATAATCAGCTAA	238	56.53
AAGGAATCTGGCAAGCGGTA	192	58.4
AACCATTGCCACCATATCCAG	147	58.25
CCATAAGATCGATGAGACCAGAG	134	56.57
CCATAAGATCGATGAGACCAGAG	293	56.57
AAGAACCTTGATTTCGCAGGACAT	47	59.95
CGTTCAATCATTATTACCGT	1093	58.42
AATCTATTCTCTCACTGTCAATGGAG	513	56.02
CAACCTCAGCCACAATACTACCAA	997	59.08
CACATCACTATCGGTGATCATCA	296	57.03
ACTGTGCGATCTGCTCCGTA	975	58.07
TCATCACACCGACCTACGCA	1533	59.69
TTGTGTGAAGAATACTGTTGAGAAGG	613	57.66
TTGTATTACTACTTGAATGTTGGAGGA	1812	56.41
TTATGGTTATGCCGGTGACG	618	57.97
GGCCTACTGGACAATTGATTGC	43	59.44
CGCCTTGTGTTGAGAGAAGTGAA	50	60.39
TCCAGGCATTCCGACTTCTC	158	58.81
AACTCTTGGAGCACCCTGC	1645	56.56
AACTCTTGGAGCACCCTGC	1582	56.56
GCAATGGATGGAATGGATGA	137	57.74
ACCGTCTAGTAGTTCGTCCAGTCA	265	58.03
TCTTACGACGGCGAGGACTA	50	57.2

GCAGCACAAGCAGGACTCAT	1202	57.64
GCAGCACAAGCAGGACTCAT	999	57.64
CCGAAGTGTCACAGTTCCATCA	583	59.59
CCGAAGTGTCACAGTTCCATCA	526	59.59
CGGCTACTGGAATTCTCGATT	213	57.08
ATTGTATAGTATGATCAAGAAGATTGCC	51	56.44
AATGGCAAGTAACAGCACTAATAGC	56	57.03
CGCTATGCCGATGGACTTGA	1546	60.7
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AAGAGGTCTGGAGTTGTGATGAAG	2575	58.39
AAGAGGTCTGGAGTTGTGATGAAG	72	58.39
AAGAGGTCTGGAGTTGTGATGAAG	1440	58.39
AGATGCTGCGGAAGTGCGTT	519	61.79
TGGTCCGCTGAGACAGAACG	3525	60.95
GGCACGCAAGACGATCTCAC	1517	60.38
CCACCGCTGAAGAAGTTGTC	653	56.98
CCACAACGACTGAGGAGCCA	603	60.8
GGTAACTCCGTCATTAGTAGTGGCA	98	59.47
AGAATTGCGCACACTGGTCA	33	58.88
ATTCTCAGCAGGTCACAACGA	1099	56.99
AAGAGGACGGACATGACGAG	93	56.33
ATTCAAGGATGGTTGTTACACGAG	70	58.12
GAACCGCTCAACCAAGAACC	48	58.23
AACAAGACGAGAACAACGAAGAG	227	56.49
CGGTCCTCTATCGCCTCAAG	84	58.49
GGAATGTTTCGTGACAAGTACCTCT	138	57.4
GGAATGTTTCGTGACAAGTACCTCT	89	57.4
GAGAGAACAACACGGCGACT	1397	56.56
TTCAAGCCAACTGTCCAATCC	2108	58.62
CCACATTACCGATCCGATGA	31	57.82
TTGATTGTTAGTGATGAGTATGCTGA	1534	56.78
TTGATTGTTAGTGATGAGTATGCTGA	1550	56.78
TTGATTGTTAGTGATGAGTATGCTGA	1613	56.78
CAGGAATGGAGGTGTCAAGG	1247	56.6
TCAATAAGTTGTCCGTGTGATAATCC	211	59.2
TTGCGAGAGCAGTGGCAGAT	814	60.65
CAGAAGGTGTACGGTTGGATG	181	56.67
ATCCATAACGAGCCATACGC	3794	56.32
ATCCATAACGAGCCATACGC	3794	56.32
ATCCATAACGAGCCATACGC	764	56.32
CGATGATTGGCGATTCTGTG	1006	58.67
TGAGGAGGTTGTCAAGCCAT	1140	56.75
CGATGATTGGCGATTCTGTG	1206	58.67
TTGGAATGCAGGAAGGTGTAG	514	56.44

AACTTCTTCTCCGGTTGTGTAAGGT	787	59.48
ATCAATCTTGCTTCTCCTTGCCTA	389	59.39
AAGATAGAACACATTGCTCCGAA	158	56.73
GACTCGGTGCTGCTCTCCAT	44	59
GCGAAGGAAGAACTCTCGTCTTG	358	60.46
AGCGTCTGGACTAAGGATTGC	658	57.19
AGCGTCTGGACTAAGGATTGC	437	57.19
AGCGTCTGGACTAAGGATTGC	525	57.19
TCCACGCATATTGTGCACGA	1119	60.64
TCCACGCATATTGTGCACGA	1121	60.64
GACCTATACGAGACGCTTCAACG	316	58.95
GGAAGATGGACGAATTGCCA	360	59.46
GGAAGATGGACGAATTGCCA	427	59.46
TCAAGACCTATACGAGACGCTTCAAC	315	60.89
AATATTGTGGCAAGGCAGGTAC	856	56.85
ATGATTAAGTTGGCTCAGGCA	164	56.1
CTTACGCCAATCGGAGATGTTC	772	59.57
CGCTCAACGCCATCAACAAC	64	61.17
CGCTCAACGCCATCAACAAC	79	61.17
CGCTCAACGCCATCAACAAC	232	61.17
CGCTCAACGCCATCAACAAC	80	61.17
CCTTGGTTAGATTCTCTCAATCTGG	123	58.39
GGAGTTGGAAGAGATGATTGACG	2368	58.7
GGAGTTGGAAGAGATGATTGACG	2368	58.7
GGAGTTGGAAGAGATGATTGACG	2368	58.7
AAGAGAACAGCAGCAACAGCA	422	57.51
TCAGGAGGAGAAGCCACCAG	207	58.96
TCAGGAGGAGAAGCCACCAG	195	58.96
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AAGAGAACGAGGAACTTGAACAGATC	901	59.35
AAGTTGTCTCCACTACGCTCGT	87	56.8
CGTGAGGAGGAGAAGGTCCA	39	58.82
TATGGAGCATCTGGATATGCAC	122	56.32
CCTTCACAATGTCGTACTACGGTAA	76	58.25
TCTGGATGTAAGAGGTTGCGA	266	57.03
AAGTCGTCCAGTTCCTCCACCT	33	59.98
AGTGCGAGGCGAATGACGAT	1154	61.64
AACTGTTGTTCACTGACGGA	197	56.82
CGCACCAAGAACACGGACAC	94	61.11
CCTGGAGGAGTTGATGTGCA	347	58.24
AAGAGTGGTGTGGTGGTGTG	174	56.98
TTACACCGGAGAACATTGGAA	80	56.69
AATAGTTCAATGAATGGAGAAGAGAAG	71	56.61
GAATGGCGTTGTGAAGATGTG	57	57.67

GCACTCAACAGCACTCCGAA	180	58.6
GAGGCTGCACTTGAGGATCAAC	217	59.84
ATGCTCTTCATTATCACGGATGG	1023	58.96
GCGGTGATGTTTCGTGTGCTC	674	61.24
CGCTGCAATACCACACCGAT	982	60.49
CTTGCTCAACGGAGAAGAAGAAGA	77	60.11
TGGCAGCAGCAGTAATTACCTAT	45	56.88
GCGGTTGATGACTGAGGATT	190	56.23
GAAGCAACTATGAATCCACACG	199	56.03
CGAACATCGCTCTGAAGGAG	191	57.23
GACCTCCAACACCACCACCA	968	60.23
ACGATGACGACGATGAAGAGA	395	56.93
TTCTCCTTCCACTGCTTGCC	35	59
CAATGACAAGTACCTCGCAGGCT	902	61.44
CACGCTTGACTTATGACCGAA	1084	57.51
TTATTGTCTGGACTCATCGGATG	488	58.51
TCGTGGTCTGCTCATCAAGTTC	62	58.78
TCAAGAAGCCACAGGAGACG	1778	57.61
TCAAGAAGCCACAGGAGACG	791	57.61
TCAAGAAGCCACAGGAGACG	1772	57.61
ACTACGTCGTTGCCGATGGT	173	59.07
ACTACGTCGTTGCCGATGGT	103	59.07
GTTGTTGGATTGATCGGCTT	420	56.2
TTCGGAGAACAGCAGGAGAT	1500	56.11
CTTGACAGAACTTGCTCACATTG	180	56.33
AATTGCCATGAGCAATAGTTGA	43	56.09
TCAGTATTCAATGATATTCAGGCAA	82	56.62
TCAGTATTCAATGATATTCAGGCAA	82	56.62
ATGGCGAAGAATGAAGGAGGA	81	59.62
ATGGCGAAGAATGAAGGAGGA	81	59.62
ATGGCGAAGAATGAAGGAGGA	174	59.62
AGTCTATCAGATGTCCAGAATACAGCCT	428	59.92
GACGACGCTGACAGATATTCCG	81	60.59
CATTCGATGATGCTTCTTCTGTT	1962	57.14
GACGGTTCAGATTGTGCGAT	153	57.19
GACGGTTCAGATTGTGCGAT	127	57.19
CACACCGACACACGCTTACTC	955	57.89
CACACCGACACACGCTTACTC	858	57.89
GCAGCGTTCATGTCGTCTGA	857	59.57
AAGGTTCTGGCTCTCCATCAG	270	57.93
AAGGTTCTGGCTCTCCATCAG	818	57.93
AAGGTTCTGGCTCTCCATCAG	270	57.93
AAGGTTCTGGCTCTCCATCAG	818	57.93
ATGATGATGATTCTGATAGTAGCG	1255	58.65

ATGATGATGATTCTGATAGTGATAGCG	1471	58.65
ATGATGATGATTCTGATAGTGATAGCG	1188	58.65
TTGTGATGATGAGTGTGCTGACG	852	60.71
GCTTCGGTTAGCATGGAACA	1253	57.44
GCTTCGGTTAGCATGGAACA	1254	57.44
AAGTTCATCCAGACGCAGTTATGATC	497	60.65
AATGAGATATTCAATGATTGTGGATC	249	56.32
ATTCACAATAACAATAATGGATGATCTTG	388	57.58
AAGAGATGGATGTCTGGTAGTGGA	970	57.77
GGAGAAGAAGTGCGAGACCGA	346	60.46
GGAGAAGAAGTGCGAGACCGA	346	60.46
GGAGAAGAAGTGCGAGACCGA	346	60.46
GGAGAAGAAGTGCGAGACCGA	346	60.46
TGAACGATAAGAAGGAGATGAAGA	553	56.01
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TATCAGAGTTGTTGTGGAATGGAA	575	57.29
GCTAGTGATGGCGAGTCAGAA	651	56.78
CATCGTCGCCACCAAGAAGA	45	60.74
AACTCTGGCTTCACCGACTTG	637	58.05
TGTTGGCGTCCTGGTCCTAC	537	59.55
TGTTGGCGTCCTGGTCCTAC	537	59.55
CGGCAATCGACATGAAGAATG	533	60.04
ATGTCGCTCAGTTCGTATTGG	1210	56.47
GCCGACGAGACAGTTGCCTT	155	61.29
TCCAGCAATCCGAACGAGAA	968	60.29
CCTCGTCGTGTCAATCATGC	59	58.68
CCTCGTCGTGTCAATCATGC	59	58.68
AACGATTAATGTACACTACAATGAACTG	206	56.03
AAGATGCTCAACGATTCACTCA	344	56.18
CCTCGTCGTGTCAATCATGC	27	58.68
ATTCAATGCCATCAATGTATCG	38	56.14
CCGACTCCATTGCTTCCATT	41	58.58
TTCCAACAACCGTCACATCC	593	57.83
TTCCAACAACCGTCACATCC	329	57.83
TGTTGACAGTGAGCATTCGGT	1236	57.81
TTCCAACAACCGTCACATCC	593	57.83
TTCCAACAACCGTCACATCC	329	57.83
AACTCCGTCGTGTCTGCTT	744	56.96
GGACTCTTATCGGCGCTGGA	183	61.18
GGACTCTTATCGGCGCTGGA	194	61.18

AATTCCAATATGGTTATTATGTTGATTG	356	56.8
AGCACATCAACAGCGAACACA	116	58.94
AGCACATCAACAGCGAACACA	194	58.94
TTCGCTCTTAATCAATCTGGATC	191	56.33
TTCGCTCTTAATCAATCTGGATC	191	56.33
GCTGCACATTCTCAACTGCTCAA	704	61.4
GGAGAGCCAAGTCACTGTTGC	482	58.53
GATGATACTCCAGTTGGTTAGCACA	204	58.27
TATGAAGTGCTGGAAGAGGCTAA	454	57.01
AATCAAGTTGAATATCATCCACACTT	530	56.1
CTGGAGGAGGTGGAGGATGT	119	57.55
GTATACGGACAAGAGGACATAGAACA	305	56.68
GTATACGGACAAGAGGACATAGAACA	305	56.68
AGGAGCAACCGCTTCAATACTATC	353	58.87
TGGCTGGTGGAGTAATCGCT	590	59.29
GGTGGAGGAGTTCTTGCATG	449	56.75
TCACATTGGCGGAAGTAGAGT	511	56.04
AATCAGCTATCACCACCGATCA	653	58.14
TCATCTCCAACGCAACAGCCT	775	61.65
TTCAACATGAACTCTATCTGGACATC	44	57.43
ACGAGAGAGTTGGACGACGAA	86	58.53
ACGAGAGAGTTGGACGACGAA	126	58.53
AAGTCTGGCCATGTGAACATG	127	57.12
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GGCTTCTTCGTTCTCCTCGTTG	77	61.16
GGCTTCTTCGTTCTCCTCGTTG	36	61.16
AGCTGAGAAGGCATCCGATG	76	58.98
CCGCCTACCTATGTGCCTGA	56	59.68
GGAGCATGTTGTGGAGGAAC	284	56.59
GGCTTCCTCATTCTCTTGCTG	81	57.75
AGAACAAGGTAGTGCTGCTCCA	390	57.75
CCGCTTCTTCGATTATGGAC	1693	56.02
CTCAATGTGTTAGCCGCAGA	47	56.16
CCGCTTCTTCGATTATGGAC	1693	56.02
CCGCTTCTTCGATTATGGAC	1556	56.02
AACTGCTGATATTGGAGGACTATGG	124	58.64
AACTGCTGATATTGGAGGACTATGG	117	58.64
GCTGACCGATGGAGTAATGC	563	56.83
GGCGGCGTTCTACTTCCTTG	901	60.69
CAAGATTGAATATTGTCATCTGGTTG	366	57.73
CTGCATTCTCAATTCAATTGTGCTCT	85	61.64
CGGCTCCAGTCATCAATGTTCA	255	61.87
CGTGGCAAGAATGATTCAATT	710	56.44
AAGAGCAACGAGGAGAACCG	419	58.13

ATAGCAAGTCGGAGCAGCCA	391	59.57
GATGAGATTGTGGAGGAAGTTGTTG	835	59.86
GGTGGAGAAGACAGTGATAATATGATTG	79	59.25
CCTCCTACTGCTTACATTGCTCCT	38	59
CCAATCACCGACAACACCAT	526	57.71
CCAATCACCGACAACACCAT	526	57.71
AATCAACAATCGGAGTCGAGTT	156	56.46
AATCAACAATCGGAGTCGAGTT	176	56.46
ACTATTATCCAAGCCAGCCGTCA	54	60.76
TTGTCGCCATTAACATTGTCC	3019	57.1
ATTACACCGCTTAGTGATGAGGAA	473	57.92
AATGTCACAGAGTCCGTGGAAGTTC	161	61.54
AATGTCACAGAGTCCGTGGAAGTTC	253	61.54
ATCATTACGCCGAGCCGAGA	150	61.55
GATCTGCCAACCTACGACTACTG	415	56.71
GAGACGACTGCTACGTATAGTGAGG	93	57.43
CTGTATTCTGGCGATTGTGGT	104	56.32
CCACATGCCGAGTGTAGACG	179	58.75
TTGATGGAAGGACTTGATTATCTGCT	227	60.28
CGATGTCAATGAACCGTCTTG	68	57.68
TTCTCTCTCACTTCGTCTGGCT	638	57.03
AGCGGTAGAACTCAGGCGGAT	98	61.05
GCAGAATGGACTCGCAGAAG	214	57.23
AACCACATAATCCAGAGAACCTCGT	277	60.1
AACCACATAATCCAGAGAACCTCGT	277	60.1
CGAATCCGGCTCTGATGATG	481	60.14
ATCTACACAGTTATGCCTTGCCA	226	57.47
TCGGCTATCTGGCTCACATTC	1166	58.88
TCGGCTATCTGGCTCACATTC	920	58.88
ATTCATCATTGCCAGTTGCTG	1120	57.3
ATTCATCATTGCCAGTTGCTG	377	57.3
ATTCATCATTGCCAGTTGCTG	158	57.3
ATTCATCATTGCCAGTTGCTG	298	57.3
AATGAGTGCTGCGATGCTTG	2518	58.62
AATGAGTGCTGCGATGCTTG	2107	58.62
AATGAGTGCTGCGATGCTTG	323	58.62
GCCTATACTCAATACAAGCCATT	1065	56.73
GCTCAACTCAAGACGCATTACG	274	58.65
CGGATTGCTGTCGGAGTGAA	1062	60.74
CGGATTGCTGTCGGAGTGAA	933	60.74
ACAGAGAGGACGAAGCCGAT	2421	57.54
GCTCTGGTGGCAGGTTCAATG	74	61.52
TGGAAGTCAGGCTATGAGTGAA	336	56.18
CTGGAATTACACGTCCTTATAGCC	556	57.09

TGGAAGTCAGGCTATGAGTGAA	427	56.18
GTCAGACCAATGATGTAGCGATC	1926	57.3
AATCGGTCATCTTGTCTATGAGCAT	367	59.06
AATCGGTCATCTTGTCTATGAGCAT	367	59.06
AACCAACAACACCTCTGCCA	350	57.64
AGAGTACACCGAATTGCTCTTCTC	456	56.97
CCAATCAGTGCTCCGCTAAGTG	224	60.73
GAGCCTCGTTCTTGTTCATCG	697	57.07
CGTGATTGTTGATAAGCAAGGAT	648	56.98
AGGTTGCCAGGATTGAGAGC	836	57.93
ATGTGTGTCTATGGTGTTGGTTCTCC	1399	61.17
GGCGTGGAGTGTTGGAGATG	327	60.08
TTGAGAGATGCGTTGGTGGA	1209	58.8
CCGAAGGTGCTGGACTACGA	944	59.83
ACTGGCGGTGTCGCTATTGG	118	61.89
GGAGAAGATGAATATGAAGACGTTG	845	57.1
GCGGCAGACTACGGTAGCAAT	464	60.24
TCCGTTAGCAGTTGGTGATAGAG	629	57.22
TCCGTTAGCAGTTGGTGATAGAG	344	57.22
TCCGTTAGCAGTTGGTGATAGAG	232	57.22
TTCCAGTAGTCGAGTCAATTAACG	184	56.41
TTCCAGTAGTCGAGTCAATTAACG	163	56.41
GCTACTGTTGGCGTGACTGC	410	58.13
TTCCAGTAGTCGAGTCAATTAACG	186	56.41
ACCGTATTCGTGTGTGCATTCTAG	188	59.11
ATGATGACTATTAGCAGAGAAGGAGCA	159	59.79
CATGAGGTACAGTGGAGACTACTTCC	466	58.34
CTCCTGACTCCACCAGTTCG	145	56.87
CTCCTGACTCCACCAGTTCG	145	56.87
TAActCTCCGATTCACGATTGC	628	57.95
TGTCGCTAAGAAGAAGCAGTGGTG	374	61.68
TGAGCAAGAGCGATAGCGGTT	274	60.96
ATGTGTTGATTGTGAGGAAGGAG	247	56.81
AAGTGGTTCGTGAAGTTACATCAC	420	56.07
CGCTTCGGTGGATACTAGGC	7406	58.42
CGCTTCGGTGGATACTAGGC	7406	58.42
ACTTCCGTTCAATCCTCGTCA	66	58.24
CTAATCAGCCAGAGCAGTTCG	1369	56.5
TGGAACAATGCGATTGCCTA	34	58.71
TTGAGCCACCGACTGAAGCA	90	61.47
GACTTCTATTGGAGGCAGGCA	202	58.01
CAGATGCAGTCCGTGAAGCTA	317	57.73
CAGATGCAGTCCGTGAAGCTA	317	57.73
CAGATGCAGTCCGTGAAGCTA	157	57.73

TTGTCTGACGAGAAGAACAGATTG	86	57.29
TATTCATAATGTACCTCACTGCCAA	605	56.58
TATTCATAATGTACCTCACTGCCAA	374	56.58
CATCTGCTTCTTCTCACTGCTTGTAG	54	59.74
TGTGTGAAGAGAAGACAGAGCAG	560	56.08
TGTGTGAAGAGAAGACAGAGCAG	660	56.08
CCGACTCACTTCAAGATGGC	1314	56.91
CCGACTCACTTCAAGATGGC	1314	56.91
AATTATCAATCGAGGTGTCAAGGATCA	708	61.83
AATTATCAATCGAGGTGTCAAGGATCA	503	61.83
AATTATCAATCGAGGTGTCAAGGATCA	911	61.83
CAGAGTAGAGTGGCAGATTGTGTT	357	56.39
GGAGTTGATGGCTGGAGAGTC	582	57.37
GGAGTTGATGGCTGGAGAGTC	582	57.37
GGAGTTGATGGCTGGAGAGTC	582	57.37
GGTTCCTCCGCCTACTCGCT	47	61.55
GGTTCCTCCGCCTACTCGCT	47	61.55
ACGAGATTGACGAGGACGGT	532	58.2
GGTTCCTCCGCCTACTCGCT	47	61.55
GGTTCCTCCGCCTACTCGCT	47	61.55
AAGGCTGGTGATGCGAAGAAG	468	60.33
GAACGAGCCATCGCTCTGAA	323	60.06
GAGGAGAAGGTCTATGATTGTACCA	236	56.62
GGAGGAAGAGGAAGAACAGTGGAG	3510	60.54
GGAGGAAGAGGAAGAACAGTGGAG	3243	60.54
ATGAAGAGCCGATTATCTCAAGC	304	57.71
AGCGAGAATGTATGAACGAGGA	660	57.58
GATCATGCAACGTCTCCAACA	80	58.16
GATACTCTCATCGAATTGAGTCAAGTTC	2610	58.83
GACTTATCAGACACGGACAGATACTATG	496	57.59
GACTTATCAGACACGGACAGATACTATG	67	57.59
CGAGCAGAAGAAGGTGAAGAAC	453	56.98
GTCTCCAGTCTCACCTCTGTCTTCC	43	60.62
CGAACTATTCTGAGAAGACCACAG	123	56.05
ATGGTTCTCGTTCCTCAACTGTAAC	54	56
AACAATCTCCGAATTCTTCCAA	345	56.49
AACCGCCAACCACTTACTACGC	106	61.17
GCTCAACGGCTTCACCTCCT	30	60.34
TGGATGCATGCTTGAGATACTTC	415	57.96
TGGATGCATGCTTGAGATACTTC	417	57.96
TGGATGCATGCTTGAGATACTTC	276	57.96
TGGATGCATGCTTGAGATACTTC	71	57.96
CTTATTGGAGATGCTATTATGCGA	257	56.47
CTTATTGGAGATGCTATTATGCGA	312	56.47

GTAAGAACTGGTGATGAGGAACAAG	901	57.12
CAGTGCTCTGCTCTCCGTAAG	102	56.61
CAGTGCTCTGCTCTCCGTAAG	172	56.61
AACTCTCGACGACAACGCCAT	550	60.64
TGGAAGCGATGCCTACCGTA	44	60.18
AATCAGTACCGAGTGTCTGTTGC	253	57.87
GAAGGAGAGTATGTCAATGTCGGA	67	58.27
CGATATTGACACGATGAGAGAAGA	129	57.15
CTGGATTGAACGCCGATAACC	709	60.27
CTACGGATGGAATGTTGAGCA	1147	57.31
CTACGGATGGAATGTTGAGCA	1158	57.31
CTACGGATGGAATGTTGAGCA	1147	57.31
CTACGGATGGAATGTTGAGCA	1110	57.31
CTACGGATGGAATGTTGAGCA	1158	57.31
AATGATAATGACATCTGTGATGGAAT	122	56.64
AGTATGGTTGCCGTCTCGTTC	991	57.8
GAGAAGATGACGCAGAAGAGCA	60	58.42
TCACCAACCTCGGATACAGC	170	57.2
ATACCTTCACCTATCTCTCCACCA	680	56.89
CCGCTCTCAACAGACGATGT	125	57.48
CCGCTCTCAACAGACGATGT	125	57.48
GAATAATCAAGACCAGCCAGGA	77	56.93
AAGTGACTGAGGATACTCAAGCCA	551	58.09
TCGGTGGCTATGGAGAAGGT	202	58.2
CTGCTGCCGAGATTCCGATT	1116	61.18
GGAGCAGAATGAGGCAGAGTT	1375	57.22
GGAGCAGAATGAGGCAGAGTT	1375	57.22
GGAAGAAGAGCAACCGTGAC	3059	56.01
GGAAGAAGAGCAACCGTGAC	3059	56.01
GGAAGAAGAGCAACCGTGAC	3059	56.01
ATTCTTGACACCGATAGGCTTG	250	57.01
TTCCGACACTGTTAATCAGATCA	505	56.02
ATTGTATCGTCACGGTCAAGG	185	56.16
CATTGTGTGCCACGAAGTGC	168	59.73
GGTTAGACACGATCAGAATGGATA	242	56.01
ACCTTAACCGACGGCTGTGG	440	60.86
CAATCCGTTATGCCTACTCCGT	991	59
TATGCGGCTGTGAATGTGGA	1379	59.65
TATGCGGCTGTGAATGTGGA	1370	59.65
GGATGGCTGTAACAATTGGCTGA	460	61.95
GGTATGCGAATGACAAGGAGGA	278	59.91
CGTTCGATACGCTGAATAATCAATC	337	59.84
GGTCATGTTGGAAGAAGAACTGTA	700	59.46
AGTGAAGAGACGATAAGTGATAATGAAG	70	56.7

GAAGACTAATCAAGAACAGAATCCACA	1796	58.04
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TTGGCTGAGTGTGTGGCTAA	598	56.52
GGCAAGATGCAGTGAAGAAGG	148	58.53
TCTTGGAGGACGAGGTTCTG	302	56.47
TTCCAACCTGTACGCCAAGA	459	57.81
TTCCAACCTGTACGCCAAGA	282	57.81
TTCCAACCTGTACGCCAAGA	375	57.81
TTCCAACCTGTACGCCAAGA	453	57.81
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TTCGGACACAAGATGAGCCA	208	58.8
TTCGGACACAAGATGAGCCA	162	58.8
GTAAGAGCAAGCAGAACTATATCAGGAG	71	58.43
TGAACACCATCGTCGCCACT	774	61.08
CTGTTGAGCCAGAACGTATTGTAG	73	56.89
CACTTCTTCTCGTCGCCGTT	40	59.07
GCAGTCGGATACGCTACTGGA	55	58.95
ATTCATTCTTCAACCAACTTCTC	1050	56.58
ATTCATTCTTCAACCAACTTCTC	1228	56.58
GATCTAATCCAGGAGGAATGGAGACA	503	61.66
GATCTAATCCAGGAGGAATGGAGACA	539	61.66
GATCTAATCCAGGAGGAATGGAGACA	503	61.66
CGTTGGATGGAGCAGACTACC	836	58.27
ACGTTCAAGCTCTGAATCGAA	185	56.32
ACATACATTAGATGGAACAGATGGAA	372	56.83
TTGTTACCGTCGTCTGTTATTCC	630	56.9
TTGTTACCGTCGTCTGTTATTCC	630	56.9
GGAGAAGAACGGAGAACCACT	574	56.06
AGGCTTCGTTACGGATTCC	20	60.03
AACCTCCGTGGTGAAGCAAG	40	58.78
GGAGTTCCACCATCAGTTACTGG	374	58.5
TATGTCACTCCACTCAAGCAAGC	140	58.14
TATGTCACTCCACTCAAGCAAGC	140	58.14
TATGTCACTCCACTCAAGCAAGC	140	58.14
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GAGACTATCAATCCAGCCAACG	164	57.44
GAGACTATCAATCCAGCCAACG	164	57.44
GAGACTATCAATCCAGCCAACG	222	57.44
CATTCGGAGGATTCAAGCAG	1220	56.96
ATATTACAAGTGGTCCATTATACGGTT	541	56.48

AAGAGGAGCGAGAGGAGGTGT	1883	58.17
AGGCTTATGAGATTATGATGGAGGCT	2346	60.56
AGGCTTATGAGATTATGATGGAGGCT	2415	60.56
TGAGTAATGGCACGCTGGCT	381	60.37
CAGAGAGGAATGTCAAGAAGACGAGA	223	61.14
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CTACTCGGTCAGAGCCAGCA	2452	57.79
CTACTCGGTCAGAGCCAGCA	2701	57.79
CTACTCGGTCAGAGCCAGCA	2701	57.79
CTACTCGGTCAGAGCCAGCA	4618	57.79
CTACTCGGTCAGAGCCAGCA	4618	57.79
CTACTCGGTCAGAGCCAGCA	4618	57.79
CTACTCGGTCAGAGCCAGCA	4618	57.79
CTACTCGGTCAGAGCCAGCA	2701	57.79
CTACTCGGTCAGAGCCAGCA	2701	57.79
GTAATCACGACACTTCTCACAACG	1390	57.48
GGTGGAGGAGGACAATGGAT	469	57.27
ATCCAGAAGCACAACAAGCAA	5323	57.09
GTGTTCGTCGGCATCATCCT	98	59.52
GCTGCTCATCTTATGTGCCA	592	56.08
CGGCTAGTGGATTGAGAAGAACTCA	1097	61.78
AGGAGTGTTAGAGAAGCGATG	44	56.38
TTACATCGTCTCCTCTTCTCC	225	56.14
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TGCGGCGATGTTAATGAGTT	427	57.85
TGCGGCGATGTTAATGAGTT	454	57.85
GAGACCTGCAAGGCTCTTGA	184	56.79
GAGACCTGCAAGGCTCTTGA	184	56.79
GAGACCTGCAAGGCTCTTGA	243	56.79
GCTGCGGCTTCTGCTTCTAC	2798	58.96
GAGCCAATACCGTCGCAGAG	4185	59.43
GCTGCGGCTTCTGCTTCTAC	2798	58.96
GCTGCGGCTTCTGCTTCTAC	2690	58.96
GAGCCAATACCGTCGCAGAG	4041	59.43
GAGCCAATACCGTCGCAGAG	4032	59.43
GAGCCAATACCGTCGCAGAG	3859	59.43
GCTGCGGCTTCTGCTTCTAC	2561	58.96
GAGCCAATACCGTCGCAGAG	4269	59.43
GAGCCAATACCGTCGCAGAG	4278	59.43
GACGCAGCACTTCTTCGGTA	302	57.72
GACGCAGCACTTCTTCGGTA	302	57.72
GTCATCGTCCAGCAGCAGAA	113	58.55

GTCATCGTCCAGCAGCAGAA	113	58.55
CCACCAACTACTATTGCTCCTGA	518	57.08
AACTATTATGCTGGAAGAGGTGACTG	656	58.07
AAGATATGCCACCGGTTGTATG	515	57.52
ATTGGTGATGACAGGAAGGACT	561	56.2
CGAGGCAATCGCCATAGTTG	221	60.18
GTGCAGGCAGCTGAAGATTC	536	57.22
CAGATGGCTGTTGACTATTACGC	2642	57.6
CAGATGGCTGTTGACTATTACGC	2585	57.6
CGACGAATATTATTGCGATGG	634	56.83
ATTGTGGCTCAGTTGGCATC	2897	57.19
TTGCTCTATCCTCTGCGGCTA	319	58.82
TATCGTTGGCTGTTGGAGTCT	565	56.04
CAAGGTCAACAACTGAATGGTG	50	56.72
TTGGCTATTCTTATTGGACTTGC	3500	56.39
CACGCCTGACCTCTTGACCA	41	60.8
CACGCCTGACCTCTTGACCA	181	60.8
ATCCACTCTTACAGATGATAATGACG	544	56.63
GCCAGCGTCTACTTCAATGC	1120	57.19
CGACATCAACAACAACTCAACG	1313	57.8
CGACATCAACAACAACTCAACG	503	57.8
TGTCACCGTTGTCGTTCTTCG	119	60.68
TGGAGGATAACGGTGCTGGT	540	59
TGGAGGATAACGGTGCTGGT	574	59
CCTTCGTGGAGGCATCCTATG	333	60.4
GCAACGCAGTCAGGAAGGAT	1065	58.88
GCAACGCAGTCAGGAAGGAT	1065	58.88
GCAACGCAGTCAGGAAGGAT	1065	58.88
TACGATGTAACAACTGAAGATGGATAC	159	56.66
ATATTCGAGTTAATGGTATTGCTCCT	588	56.78
CGTACTGTATTAAGTTGATTGATTCTG	391	57.71
AGAAGTGGAAGGAAGTGGAGTAGA	430	56.46
GCGAAGAACCATAACCACTCT	88	56.97
GTGACAGTAATGGATGATAACATTGATC	365	57.94
TCTAACAGCGTTGTCAGCCA	469	56.68
AATCAGCGAATCAGCGAAGT	1335	56.26
GGATGTTCTCGGTGTGGATG	723	57.36
GGATGTTCTCGGTGTGGATG	723	57.36
TGAACGACAGGCTCACACAG	219	56.95
AATAACAGCGTTTCGATCAATATCTC	505	56.78
TGCTTGTCTCACTGTTGTTGC	184	56.14
GGATTGGAAGCGGAAGGATT	2600	58.96
GGATTGGAAGCGGAAGGATT	2198	58.96
GGATTGGAAGCGGAAGGATT	2198	58.96

AGAGCGAGGACAATTCTGCCA	762	60.84
GGTCGCGCACAATTATACGTC	72	59.1
CGAGTCAACAATGCCACCGT	160	60.52
GAGCAGATGATGAATGTGGCA	618	58.26
TGATGACGATCCGAATAACAATG	3252	58.43
CTGATAGGACATCTTCAAGGCACA	1227	59.26
TCAGTTGATTATGTCACGCATACCAC	2245	60.93
CGCACTTCACTCCTCTTCGTC	79	58.68
CATACCTTCGTCTTCGTCCAG	271	56.05
GTTCCATCAACTATTCAATTGCGAT	171	58.09
GTTCCATCAACTATTCAATTGCGAT	233	58.09
TTGATCTAACCGATGGATTGTCA	660	58.05
CGAGATGGACGGACTTGTCT	591	56.33
ATCAGGCAATACTGGAGTTGTCAT	135	57.73
TTGTGACCGTGTGCGTTGTG	109	61.2
TTCCTCGCTTATCTGCCACA	149	58.06
TGTGCTCTGCTGGACAGTGG	627	59.59
TTGAAGTGGATCTAGACAGGCA	701	56.18
AACACCACCATCAAGTCCAGAA	471	58.01
AACACCACCATCAAGTCCAGAA	549	58.01
CGTGAGCCATCTATTGCGTT	707	57.47
AAGCCAGGAGCAGTGTATTCAAC	655	58.46
CATAAGAGGTGTCAGAGCAATACG	44	56.83
CAATCATCAGCCACCACCAC	391	58.37
GACTTCCTTCCTCCTCTCCG	850	58.01
CATTGTCTCCGAGTTGGTT	984	57.26
TTCCAGAACATGTACTGCTCCA	813	56.96
TTCCAGAACATGTACTGCTCCA	867	56.96
TCACAAGTTCCACTTAACGAGCA	864	58.55
GCAGACACTTGGCTTGGAGA	393	57.61
GCAGACACTTGGCTTGGAGA	240	57.61
GCAGACACTTGGCTTGGAGA	477	57.61
GCAGACACTTGGCTTGGAGA	399	57.61
GCAGACACTTGGCTTGGAGA	91	57.61
ATCTTCTGCCTGTTATGCCAA	231	56.1
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ATTCAACGGATATTATTAACGTACATTG	334	56.98
AATCCTTCCGTTGCTGGTTC	561	57.71
GACGCAATCACTCATCTCCAC	1671	56.76
GCACCGTCTGCGTTACTCAA	75	58.52
AGATGAGTGGATTACGTGCTGA	83	60.64
GAATACAGGAGGAAGTTCTAGAGCAA	500	57.52
GGAAGCGAATACAGGAGGAAG	489	56.68
GGAAGCGAATACAGGAGGAAG	605	56.68

GGTCCACAACAATCGCCTTC	35	58.98
ACTGGATGTGACTCTGGATTCTG	265	57.72
ACTGGATGTGACTCTGGATTCTG	268	57.72
ACTGGATGTGACTCTGGATTCTG	249	57.72
TCAGTCAACATTCTGGATTACAGA	262	56.02
GATATGGCGGAGGAGGTGGA	1136	60.75
GCATCTCCAGTATTAGTGCATCAAG	180	58.06
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ATGATTGATCGTGTCTGCATTCT	1412	57.09
ATGATTGATCGTGTCTGCATTCT	1290	57.09
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GTGTCCACAACCACCTTCTGA	136	57.05
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CGTTCGCTGGACTCTGGATTCT	2425	61.61
GAATTGTCCGACGAGCTTCTCA	262	60.33
TCACGACGAGAGAGAAGTAGACG	1420	57.51
CAAGTCGTTCTGTCATACCAT	337	56.16
CTCCGCAACAAGACCGTTCT	899	58.92
TTGGACAAGAAGCAACGGAA	51	57.93
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GCTAACACCACTTCTCCATCCA	290	57.79
TTACATTCCATGCTTCCAGATG	1316	56.36
TATGGCTGCGTGTCTGGAAT	317	57.78
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CAGATGAGCCGTGTAGTGTTG	116	59.25
CAGATGAGCCGTGTAGTGTTG	155	59.25
CAGATGAGCCGTGTAGTGTTG	116	59.25
GGTGGTGGTGGAGGTGGAAT	204	60.44
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GGAAGGATTGAGAAGTAGGACGT	2164	56.63
GGAAGGATTGAGAAGTAGGACGT	2164	56.63
ACGATGGTTATTATGTGGAGGAGA	184	57.62
GGAAGGATTGAGAAGTAGGACGT	2244	56.63
GGAAGGATTGAGAAGTAGGACGT	2244	56.63
GGAAGGATTGAGAAGTAGGACGT	1422	56.63
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ACGATGGTTATTATGTGGAGGAGA	199	57.62
GGAAGGATTGAGAAGTAGGACGT	1905	56.63

GGTGGTGGTGGAGGTGGAAT	204	60.44
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GCCTGGTGCATGTGCTCTGT	97	60.85
AACGATGATTGGATGGATGC	89	56.86
GAAGTGTCCGAAGAATCGG	318	59.26
GACAGCAACCACCACCACCA	313	61.41
CCGCTTCGAGGACAATCTGG	89	61.6
CCGCTTCGAGGACAATCTGG	89	61.6
ACGAGAGTTGATTGCTGGATG	809	56.47
AGAAGACAGTTCATCGACGGA	98	59.7
TGATAACTGACTCCATTGTTAGCTG	55	56.42
AATTGAATATCAAGCTCTCGTGAATC	32	58.01
GGAGGACCACCGATATAGGATG	94	58.28
CCACCAGATAACGATGATGATG	700	56.51
AGTTATCTTATACTATTACGGAATGGCA	141	56.24
TGGTAGCAACGAGTAGTGACGATG	1575	60.18
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TGGTAGCAACGAGTAGTGACGATG	1632	60.18
TGGTAGCAACGAGTAGTGACGATG	1687	60.18
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AAGAGGCGAAGAGCACGGAA	373	60.96
AAGAGGCGAAGAGCACGGAA	299	60.96
TTGTCAGCACTTCAATCGGA	523	56.41
TTGTCAGCACTTCAATCGGA	582	56.41
CTGTCTTGATGAGGAGGAGTGAT	378	56.09
TTCCATAGTAGCCGCAACAAC	530	56.58
GAATACTTGTATCGTCCGCTGAT	38	56.16
AATGGTTGGAATGAACAGAGAAG	1208	56.05
CAGAACTCAACAACACAGCCGAT	45	60.16
CAGAACTCAACAACACAGCCGAT	45	60.16
CAATATACACACATTCAATTCAG	207	57.64
TTGAGAACTGGATTGAGACTGAAG	153	56.42
CAGGAGCAGGTAGATTCAATGTGT	83	58.34
ATTCTGATGCGTGTCATTGAGAGG	978	61.3
ATTCTGATGCGTGTCATTGAGAGG	1117	61.3
ATTCTGATGCGTGTCATTGAGAGG	1120	61.3
ATTCTGATGCGTGTCATTGAGAGG	950	61.3
ATTCTGATGCGTGTCATTGAGAGG	1090	61.3
GCAGTCAGACGATGATTCAGATG	84	58.41
TTCATACTCCAGAAGGCAGCCA	2296	61.84
AGTTCAATGAGATGAGAGATGAGTCG	59	58.95
AGTTCAATGAGATGAGAGATGAGTCG	59	58.95
TTATGCTACTTATGGTTGTGGAATAAC	207	57.25
TTATGCTACTTATGGTTGTGGAATAAC	207	57.25

TTATGCTACTTATGGTTGTGGAACAACTAAC	207	57.25
GAGAGGATTGGAGCCACCAC	232	58.12
CACAACGCAACACTACGTCTTG	94	58.03
TGAAGCTCATCTCTACATTACTCAGAA	62	56.82
AACTGTCTGAACATGTTACGACGA	263	61.76
CCGTCATATGAAGAGAGGCATT	25	56.95
GAAGTGCCAGCCGATGAGAC	276	59.39
CTCCATTACTTCACAGAACTACAACAC	1113	56.44
CTCCATTACTTCACAGAACTACAACAC	1183	56.44
CTCCATTACTTCACAGAACTACAACAC	1113	56.44
CTCCATTACTTCACAGAACTACAACAC	1183	56.44
TCCATTACCAGAGACTGCCGAAG	1336	61.39
CTGCAGCGAAGGAAGGATGG	216	61.73
AACTTCATGCGGCAATCTCG	279	59.8
AACTTCATGCGGCAATCTCG	279	59.8
AACTTCATGCGGCAATCTCG	279	59.8
GTAAGGCTGTTCTTCACGCTACA	412	57.41
CCTGGAATCACATTCGGAAC	467	56.49
GGAAGAGACACGGAGACAGGAGA	28	60.73
TCCATCACGAGAGCAACCTG	139	58.39
TCCATCACGAGAGCAACCTG	139	58.39
GCAGTCATCGGAGGTCTGGA	303	59.77
CAATGCCGTGTGCTAATCTGA	166	58.39
CAATGCCGTGTGCTAATCTGA	166	58.39
ATAATAATAATGCCGAATCTGGAAGTG	230	58.85
ATAATAATAATGCCGAATCTGGAAGTG	230	58.85
GAGAGCACGTAACCGTCTGAC	81	56.13
GAGAGCACGTAACCGTCTGAC	81	56.13
GCAGTCATCGGAGGTCTGGA	303	59.77
GCAGTCATCGGAGGTCTGGA	303	59.77
ATAATAATAATGCCGAATCTGGAAGTG	230	58.85
TCCATCACGAGAGCAACCTG	139	58.39
AATCTCTGAAGACTGCTCTCCGATT	131	59.87
GCTGCCTGACTCCACGAGAA	105	60.1
GCACAAGGATACATGTGCAGAC	237	56.83
CAATTCACTTCGGTATCTGGATT	70	56
ATAGCATCACGGACAACGGA	217	57.63
ATCTCTAACGCTAGTGGACTCAGTG	282	57.07
TTCCAATCCTGCGGCTACCT	41	60.53
GCTGCTGAATCGTTGAACCT	167	56.61
TTGGAGTTGAGGAGGCATTG	2390	57.33
TTGGAGTTGAGGAGGCATTG	2521	57.33
CAGCAACGACGCCAACAAGT	298	60.83
TTGATCCGAATCCACTGAAGC	315	58.72

CCTGAATCCATCACAGTGTCTTG	199	58.17
GGAACCTGCCACGAGTAAGC	1071	58.4
AATCGTGCCTGAATGTGCCA	90	61.01
CGATTGGCATGTGAATACAGAA	429	57.26
AATGGCAACACGACTTATGGC	1082	58.57
AATGGCAACACGACTTATGGC	882	58.57
AACATTATGGACAGTTCAGTTGTGA	116	56.45
AACATTATGGACAGTTCAGTTGTGA	116	56.45
AAGAGTATCAGCAGGAGAACAGGCA	1621	61.49
AAGAGTATCAGCAGGAGAACAGGCA	1092	61.49
CATCAGACAATCGGTGAGACAT	202	56.17
TCACACCACAGCTATTGTTGTTCTTC	94	60.4
GGAACCGAAGCAGACCTCAC	59	58.32
CCACAAGAACATCAAGTCCATAACC	250	59.64
CAAGATGAAGCCAATGCCAGT	1068	58.79
GTCCAACTGTCGGTCCTTACTG	577	57.32
GCTGGACACCGTACTGGACA	1058	58.16
AAGACGGAAGAGGAGAAGGATG	1513	57.58
GGAAGAGGCAAGGATTACGC	3646	57.5
CAGCGAAGCAGGTGGAGGAG	86	61.95
GTGAGGTGGACAAGGCAAGG	54	59.14
CGTCATGATTGACGAAGCTGA	489	58.46
CGTCATGATTGACGAAGCTGA	489	58.46
ATCAACCAGTAAGCAACTATCCATT	776	56.25
ATCAACCAGTAAGCAACTATCCATT	776	56.25
TACTCGGCAGGACAGGAACC	178	58.73
TACTCGGCAGGACAGGAACC	101	58.73
TGAGCAGAGGCGTTGGAGTT	531	59.57
AAGAATCGACAACCTTCAGCAAGA	2444	56.94
AAGAATCGACAACCTTCAGCAAGA	2488	56.94
TCGGATGGTTGAGGAAGGAT	1001	57.97
TCGGATGGTTGAGGAAGGAT	1060	57.97
TTCAACTGCTATTATGGCTTCTCTT	2328	56.73
AACTGATGACGATTCTGATGGC	960	57.74
AACTGATGACGATTCTGATGGC	970	57.74
AAGTGGAATGCGTAATTGGAAT	328	56.37
AAGTGGAATGCGTAATTGGAAT	529	56.37
TGTGCCAGATGTACTCACTGTTGC	242	61.08
ACTACAGTTGCCTGGTATCTACTTCTAC	34	56
TTCGCTCACAGTTATCGTTGGA	74	59.34
TTCGCTCACAGTTATCGTTGGA	74	59.34
CGACGAGGAGCTCAACAAGC	292	59.72
AGTAGGACCATTGAGTTATCTACACTTG	130	56.53
AACGAAGCTAACAGCAACTTCACG	491	60.74

TATTGGTTGGCATTGATTGGT	459	56.46
ACGCCAGCATTCTCTGAACATC	63	60.22
TTCACCATCGCTGTCACTAACG	376	59.76
TTCTTCCGTTGACTCTGGCT	48	56.18
GGATCTCCAGACGCATTCACTCT	934	60.57
ATTCTTCTTGTCACCTATTGGTTAGC	755	58.05
ATGCTCCTGCTGCATTCCGGT	433	61.64
ATGCTCCTGCTGCATTCCGGT	243	61.64
GAAGCCGCTAGTTCTAATGATAATCTAC	697	57.58
TCACTTGTTGCGGTGACTGA	843	57.38
TCACTTGTTGCGGTGACTGA	930	57.38
GTCACAGTCTACGATGGTTCTCC	971	56.43
GTTGCTGGACGACACACTGA	4398	56.77
CCAGGACGGCTGAATCAGAT	236	58.69
GTCTGCTCCACTTCGTTCTTG	699	56.26
CGAGTTCAGACGAAGTACTATTACCA	228	56.99
CGAGTTCAGACGAAGTACTATTACCA	96	56.99
CGAGTTCAGACGAAGTACTATTACCA	144	56.99
CGAGTTCAGACGAAGTACTATTACCA	228	56.99
GAACATCGTCCAGTTCATCA	299	57.02
GAACATCGTCCAGTTCATCA	430	57.02
AGTCTGTGCCATTTCGTGTTCA	113	57.81
CTCACCGAGCATTGAAGTCC	1069	56.91
ATTGAACTCTCGTCAGTGCCA	636	56.99
ATGCTAACATCATCGGAATCG	541	56.31
TTCCGTTACAGTGGTCAGG	385	58.13
CCAGCAAGTTGTACAGTCACAGG	157	58.44
CAAGATGCCACCAATATGAGC	985	56.8
AAGCAGAAGCCGAAGAAGCT	263	57.21
CACTACAGTACACCTTCTCCACCA	7396	56.98
CTATCACTAGAGCTGCCAACTGTC	233	56.21
GTGAAGGCTGAAGGTCTTATTGTTG	502	59.23
GATGCGAGTCTTGCGGAAGT	364	59.03
CGAGAGAGCCAAGTCCGAAT	594	58.08
CGAGAGAGCCAAGTCCGAAT	199	58.08
GCCATTGAACTCTGGAGCAA	83	57.48
CCGAGAGAGAGAGTTAGTGTCAAGA	91	57.2
GCACCAGATGACTCGAACAGA	316	57.46
AATGCTGGAAGCCGACTTGC	513	61.21
AAGCTCAATATCGTGTTTCGCA	300	57.15
AAGCTCAATATCGTGTTTCGCA	326	57.15
TTGTCTCGATTACTGTAGCCATGG	586	59.17
AACACTCCAGACTCATCAGAACC	125	56
AACGAGATAATTATTGTCAGTTCTGC	781	56.13

AACGAGATAATTATTGTCAGTTCTGC	781	56.13
TGTGATGAGTGCTGCCAACG	94	60.43
TTGGACAGGAAGAGGCACAT	3122	56.75
GGCAGCTCAATCCTATTCCG	405	58.35
CAACCTGTCCTTCCAACCACT	806	57.61
CCTGACAATAACCAACCTGAACA	703	57.65
CAAGATTGAGGATGTGAAGGCA	408	58.77
CAAGATTGAGGATGTGAAGGCA	408	58.77
GGTCCACCTAGTGATGATGACA	721	56.01
TTGTGTGTTGCAAGACTTGTACCT	191	57.54
GGAGGAAGACGAGCGTGGAA	193	61.23
AGCAGTTGGAGTCATTGTACGG	389	57.87
TGTCATTCTCAACTCGGCAA	1114	56.41
CTTCAATATCTCGTGATTCTCTGTT	1686	56.5
GTCGTCTGATTCTGATGATGATTCTG	43	59.97
ACTGCCTTGCTGTCGTGCTC	3519	60.17
ACTGCCTTGCTGTCGTGCTC	3519	60.17
CGTGTGTATAGAGAACTCAATGAACAAC	2512	58.37
CGATAGTTAGTCAGGCTGCGGAA	1996	61.48
AATATACCTGTCAAGTTGGAATGGTC	254	57.59
GTTCACCTGCCTACGCCTCAC	1180	57
CCACGAATCGGTTAATTGCT	1926	56.36
CAGGACAGCTCTCAGACCGA	993	57.69
TTGAAGGTGGACAGGCAGGA	185	60.19
CAATGTTGCGCAGTGGTGGAT	897	58.02
CCTGCGGAAGTTCTCCTTCT	1163	57.21
CCTGCGGAAGTTCTCCTTCT	1163	57.21
GTTGACGAGGTTGATGAGCAC	2504	56.83
GTTGACGAGGTTGATGAGCAC	2504	56.83
CGAATTGCGTGAAGATGATAGC	675	58.47
AGACAGGAGAAGAAGAAGCTCGAC	221	58.48
CGAATTGCGTGAAGATGATAGC	492	58.47
CGAATTGCGTGAAGATGATAGC	331	58.47
TTGCGATGAAGGTTACTGAATG	147	56.57
TTCACAGATTGACAAGAGAGGCT	246	56.84
TTCACAGATTGACAAGAGAGGCT	279	56.84
CCAGGAAGAGGAGAGAATGAAGA	562	57.71
CCAGGAAGAGGAGAGAATGAAGA	562	57.71
ATCCGAAGAAGAATGAGCAGAA	164	56.81
ATCCGAAGAAGAATGAGCAGAA	164	56.81
ATCCGAAGAAGAATGAGCAGAA	430	56.81
ATCCGAAGAAGAATGAGCAGAA	697	56.81
ATCCGAAGAAGAATGAGCAGAA	245	56.81
CGATGGATCTCCTCAGGTTGC	51	60.55

AACCACGAACAACGGCAGAA	750	60.11
GTATGGTCCAGAGTGTGATGCTG	381	58.2
GTATGGTCCAGAGTGTGATGCTG	395	58.2
CGAGCAGTAGCTGATACGAAGA	868	56.25
GAGGATGAGCAGGACGATGA	170	57.33
TCCACACTCGTACTACCTGACTCTC	549	57.67
ACGGTAGTGAGCTGCTCAAGGA	385	60.02
GGTGTTCAGGCATTGGATG	534	60.87
CAACTCTCTATGATGAGGTTATGGTC	140	58.73
GTTGTCGCTGGAATCGGTCT	283	58.74
AGGTAATGACACCGCTCAGC	20	56.49
AAGCAGATGCCGAAGAACAAG	56	58.2
CACCAACGACGACTTCAGCAC	1363	60.31
TCTGGAACTGGCACGCTCAT	987	60.37
TCTGGAACTGGCACGCTCAT	987	60.37
ATGTGTTCTGTAGTGGTGCGGAT	286	59.41
GACTGAAGGATTGGCTGTTGC	146	58.39
GCTGGATAAGACACGGTTGACT	1287	56.97
GACCTGCCATATTGCTCTCTG	375	56.13
CTGTTCCGATCCTCGACACC	84	59.09
AATGTTGGCGAATCGAAGAAG	287	57.93
CCACCAAGAAGACCAAGGATG	466	58.09
CCACCAAGAAGACCAAGGATG	317	58.09
GGAGTGTCGTCTGCTGGTTC	321	56.86
CGGATGTAAGCCAGACACCTTC	534	59.59
GGAGTGTCGTCTGCTGGTTC	212	56.86
CGGATGTAAGCCAGACACCTTC	638	59.59
CGGATGTAAGCCAGACACCTTC	516	59.59
TTGAGAGGCGTGAGGAATACC	1169	57.87
AAGTGTGTGTTCTTGATGCC	307	56.22
TTGAGAGGCGTGAGGAATACC	791	57.87
AACTTATCGCACAGCCATCTTC	387	57.15
AACTTATCGCACAGCCATCTTC	387	57.15
AAGGCATACGACGACCACCA	20	59.95
GGTCTCCACGCTAAGAACCA	4341	56.46
TAGTTCTCAGTTCAGGACTTGTGC	115	56.5
ACGGTAGTCTGTATGGCAATCG	1507	57.77
ATGCGTCAGTGTAGAGGATATGATG	60	58.24
TCCTACTTGCTCATCGCTGTG	668	57.73
TCCTACTTGCTCATCGCTGTG	545	57.73
CCGCTGGATTGTGTTAGGTT	222	56.3
CCGCTGGATTGTGTTAGGTT	251	56.3
GACAGGAACCACCAAGTACGA	1053	56.23
AATCTGAGCAATCTTCAACTGGCA	427	61.03

ATCTCTGTGAAGCTTGCTCGGT	1144	59.13
TGACGCAGATGATGATGACAAG	171	58.32
AGATCAATTACAATGTGGATGGTG	220	56.57
AATGGAAGAGGAGTATCGTAGCC	457	56.7
CGATGACAATGTTGCGAAGC	319	58.87
TCACGGATTCAGATGTTCAAGTC	522	56.3
GAATGGAGATCAACAGCTCAGAA	543	57.16
GTTATAGTCTGACAATGTCGTGCCA	353	59.1
CGTCATTATTCTATGGCGATACC	653	56.46
CGTCATTATTCTATGGCGATACC	520	56.46
TCATTGGCAATTAAGTGTATGCT	97	56.69
TCATTGGCAATTAAGTGTATGCT	93	56.69
CGTTGAGTACAAGCAGAAGAATCC	147	58.15
TAGTGGAGGACTTGCCGCTGA	1249	61.76
TAGTGGAGGACTTGCCGCTGA	1247	61.76
TCGGACCAGAAGTTGTTGCC	732	59.67
ATATTGAACAACTCGCTCGGA	526	56.1
CGGACAATACCACGGACAATACC	124	61.12
GGAATGCATGGAATCAATTGG	208	58.69
GATGTTGCCTGAGAGATGAGGA	119	57.93
GATGTTGCCTGAGAGATGAGGA	122	57.93
GATGTTGCCTGAGAGATGAGGA	122	57.93
TGAAGCCAACATTCTACCAA	256	57.8
TGAAGCCAACATTCTACCAA	530	57.8
CACAACAACAATACAGAGAGCAACA	294	58.04
ATGATTGCGGAAGAAGTGAACG	64	60.07
ATATGGTGAATTGAGAGCACATCA	380	57.26
GCAGCGTTGGCGTTCTACAG	176	60.54
GCAGCGTTGGCGTTCTACAG	272	60.54
GCAGCGTTGGCGTTCTACAG	186	60.54
GCAGCGTTGGCGTTCTACAG	176	60.54
GCAGCGTTGGCGTTCTACAG	272	60.54
GCAGCGTTGGCGTTCTACAG	186	60.54
GCAGCGTTGGCGTTCTACAG	176	60.54
GCAGCGTTGGCGTTCTACAG	272	60.54
GCAGCGTTGGCGTTCTACAG	186	60.54
CATTGAGAATTGGCGACAAGA	37	57.43
GCAGCGTTGGCGTTCTACAG	272	60.54
TGGACAGTGATGACGAAGATGA	1982	57.74
CGGAGTGTACAGTTGGATG	1390	56.05
GTCGAAGGAGATGAAGAAGCG	435	57.75
GGAAGAGATTATCGTACCGCAGA	809	58.41
GGAGTTCAAGGCTGCGGCTA	898	61.33
GGAGTTCAAGGCTGCGGCTA	898	61.33

CGACGACGACGATGAGTATGAC	179	59.21
TTCGGCAACCTCTACGCTCA	1800	60.48
TTCGGCAACCTCTACGCTCA	1754	60.48
TATTGGATTGGTGAACGGAAC	275	56.04
GTTGAGTGATGAGACAGATTGGAG	3719	56.56
GTTGAGTGATGAGACAGATTGGAG	3824	56.56
GATGGTCATGGAATATGTATGTGC	264	56.9
GTTGAGTGATGAGACAGATTGGAG	3824	56.56
GCGAGTACAGTACAATCAATGTTCA	785	57.11
GATGTTGATCCGTTCTTGTC	86	58.49
TCCGTAGCAGGAAGCTCAACC	444	60.33
AATGGCTTCCGTGTTGTAC	175	57.1
TAAGGAGGCACTCGGAGATGA	755	58.48
GCCATGCCAGACTATGTTAATGCT	492	60.32
AATCAACACTGTGAAGGAGGAGA	136	56.55
AGTGATTGGAGTGATAAGAATGCTG	255	57.57
AATGAGAACAGAAGCCGATGA	1679	56.09
AATGAGAACAGAAGCCGATGA	1679	56.09
CATTGAGCGATTAGCAGAAGC	686	56.55
CAACGTACCGAAGGAGTTCTTC	102	56.67
GAGGCTGACAATAAGTGTGCGA	77	58.98
ATCAGTGTGCCAGAACTTGTC	934	56.91
ATCAGTGTGCCAGAACTTGTC	987	56.91
GAAGGTTGTTGTGTATTGCACTGG	305	59.44
GGTGGAATTGGAGGAACTGGA	761	59.74
AAGATGATCGAGAGGATATTAGAAGACG	258	59.56
TCGACTGTAATCAGAGAAGCATT	912	56.49
TCACCAACCACAATTACCAGCA	375	59.85
GCTGTGGAAGAAGTTGGTGAG	929	56.1
GCTGTGGAAGAAGTTGGTGAG	829	56.1
TCGGATGCCTCAATTGTTG	129	60.54
GACTAGGACCTGCCGGAGGA	127	60.16
ATCACGAAGACTTCATGTCAAGC	199	60.59
CCGACTCAACGAAGAGATTAGG	723	56.76
GCCAAGAATAAGAAGGAGCACGA	170	60.64
GTGTATCCTGGTTCGTCGCT	292	56.33
CGACACCGTAACAATCATCCTG	177	58.96
CCAGCGACACCAAGGAGTTG	87	60.25
AAGGTACGGTATCAATCAACCATG	64	57.9
TTACCTCTCATAGCTCAAGTGTCCA	41	58.16
TTCATCGAATCTATCCTGGCATT	275	58.58
ACGGCAGGAAGTAATGTGTTG	789	56.38
GCCATCAGTTCAAGCATTCAAC	72	58.31
CTAATATCTAGTATAATTGCCGGATTG	274	57.98

TATGTATATGGAATGGACAGATACGAAT	561	57.2
TATGTATATGGAATGGACAGATACGAAT	243	57.2
GAGTTGTCTGGATAGTGGTGGTCGT	239	61.44
CGTTATTGTTGTCCTACTGGTGTTG	255	58.58
GACTCATTGCCATCGTGACC	70	57.52
GAGTTAACTGGACTTGGAGCA	104	57.16
TGAACTCAATGAAGACGACGAG	66	56.68
TAAGGATGAGGACACGGATACG	1755	57.69
CTCCTACTTCATGGACGTTAAGTGCTC	141	61.5
CTCCTACTTCATGGACGTTAAGTGCTC	141	61.5
ATTCCGTGATATACTCTTGAGGTGCT	92	59.46
GCTATCGCTCTCTTCCAGTGA	34	56
TGGCAACAAGCACCTCAAGA	95	59
CTCGTCGGAGAGCACTAGAAGC	58	59.39
GTTGTGTTGTTGGTTGTTCAGTTAG	48	56.57
AATGGTGACGAGCATCATAAGC	4540	57.83
GCTAATCATTATCTTGTCCAACACTAC	2991	56.36
GCTAATCATTATCTTGTCCAACACTAC	2991	56.36
GCTTCTTCTCCTACGTTATGCTG	337	56.25
GCTTCTTCTCCTACGTTATGCTG	305	56.25
GTGGAATGAGTTGAGCCGAGT	58	57.85
AATGGATTACACCAAGTGACATATCAC	50	56.3
AATCTCACTGTCATGCCGAAC	1049	56.31
AATCTCACTGTCATGCCGAAC	1135	56.31
CGAACTTGCTAGAACCAAGTAC	438	59.49
AACGGAGCTGTCTCTCTTCACT	719	56.05
TTGGAATTGTGATGCTTGATGT	1970	56.69
AAGATCCGATGGAGAACCTCA	104	57.25
TGGAGAATAATGGAACAGCGGAT	300	60.59
GGATTCAACACACCGACGAC	617	57.42
GGATTCAACACACCGACGAC	617	57.42
CGTGGTGGAGATTGAGAAGTTC	824	57.38
CGTGGTGGAGATTGAGAAGTTC	1197	57.38
CGCTGTGACTACGGTAATACGCAT	74	61.16
ACAGCGCGTGAGAGACATCT	46	57.22
CCAGTCATAATCAGCAACAACACC	2104	59.41
AGCCTGTTATGCTCGAGTGAA	79	56.35
GCATCCTACGCAGCACTTCA	1705	58.62
GCATCCTACGCAGCACTTCA	1705	58.62
AGCGAAGAAGAATTGCTTGAGA	1062	57.15
TTCCTACACCAAGACATCCAAGA	504	57.34
GGAACTATCCGACCACCAC	174	56.29
GCACAATACGCTGAGGTTCAAC	130	58.38
CGTTCTATATCACTGGACGACTCA	154	57.1

GAGTTGTCTGCTTGGCTGAATG	1103	58.59
ATTCTACGGTATGAAGACCATCCT	113	56.07
GGATATGATACGGAATCTGAAGTCG	435	58.92
CTGAATAAGGTGGATGTTGATGAAG	1693	57.78
GAGAGAGCAGAGGATGAGGAGA	937	56.47
ATGATGGCTCAGGAGGCGAA	1182	61.59
GTGCTCAAGTGTGATGCTCCA	428	58.46
GTTGGAGGAGGTTATCGCTGGA	402	61.25
TCGAGTTGGCATAACCACCGA	295	61
CAACAAGGAGTCTGTGGATCAATG	1133	59.5
CAACAAGGAGTCTGTGGATCAATG	1133	59.5
GCGTTGATGTTGATGAATGC	899	56.17
GGCTCCTGAATGGTGGCTTA	2200	58.73
TGTTGTGGTGGACGAGGAAT	406	57.42
TGTTGTGGTGGACGAGGAAT	224	57.42
TGTTGTGGTGGACGAGGAAT	71	57.42
CTTCTTCCTCTCCGTCTTCTCA	330	56.51
CTTCTTCCTCTCCGTCTTCTCA	330	56.51
TGACGCAGAAGGTCGCAAGT	136	60.54
TGACGCAGAAGGTCGCAAGT	86	60.54
GCCGTTCTTGCTCATCTTGG	559	59.4
TGACGCAGAAGGTCGCAAGT	36	60.54
TGACGCAGAAGGTCGCAAGT	128	60.54
GGATTGCGATTCAGTGCTTG	189	57.91
GTGATGATGAACAACTGCTAACTGA	27	57.13
GCAGCAGCAATCGTGGTCTT	2222	59.98
ACTCACGATGTTCAGCATTCCG	132	61
ACTTCTTAATCAACTTGATGGCTTCC	951	59.13
AAGAAGAATGTAGAGGAGCAGAAGA	2116	56.04
TTGTAACGACTGCGATGAAGC	880	57.66
CGTCTCTTCGACTTCTCAATCATC	98	58.16
ATGCCAATACTGCTCTCGGT	1275	59.62
CTCAAGAACGACACGGATACTG	373	56.13
CCACTGTACTTAGGCTATGTTCTGAA	581	56.99
TCCAAGATCGCCTCTCATCG	732	59.87
TAATGTGCCTGTTGTATGACGAG	276	56.53
CTGCACTACGGAGATATGACAGATTC	302	59.22
GTGGCAATGCTTCATCAGTG	341	56.27
ATGACACTGATGATGATAACAAGCC	461	58.09
TGGAGCAACACTGGTCACTG	187	56.78
ACAAGTGTCAGTCAGCCAAGT	208	56.57
GCCACGACTGAAGAGCACAAC	106	59.49
AAGATCGTGGAGTCCGCTTG	54	58.88
TTATGAACATGTGACTTGTGCCA	1009	57.69

CTCACACCAACATTACAGTAGCATT	926	56.23
CTCACACCAACATTACAGTAGCATT	916	56.23
CACTGCTCGTAGATTCTGTCCA	2712	56.71
GAGATGCCAACAATCCACAGA	460	57.18
CTTCAGACTGCAAGAGTTCAACTTC	42	57.6
CCGAAGTACTATCCGCCTCCA	94	60.04
GGCTTCATCTTCGCATCGTT	213	58.87
CTCGTCAGTCTCCGCCACTA	396	57.64
GATTGCTATTGCCGCCAGAA	480	59.76
GATGTGACGTTGACTGCAACTC	413	60.68
ATTCAATCCAGTTCTTCAATAAGCCAA	30	61.16
AGCGGCAAGAGTTAATGAGTTG	677	57.35
AATGTCTTCAGAAGAGTCAATGTGCTC	61	60.15
GGATTGATGCGTACATCGCA	206	59.09
TGGAACAGAGTCGGATGAAGA	338	56.9
TGGAACAGAGTCGGATGAAGA	419	56.9
GTGTGGCACTCGTTGGCGTA	737	61.64
GTGTGGCACTCGTTGGCGTA	737	61.64
GCTTCTAAGATTGGCTCAATTATCC	741	57.7
GTGATGTTGATTGGTGGACTATGG	628	59.11
TTGCAGTCAACTCACTTCTTCG	1007	56.9
TTGTATAATCCTTACGTGCAGCTATG	52	57.7
GATGGTGGAATAGTAGAGGTCGTAA	224	56.61
TTCTGAACTAATTACCTAATTCACTCT	57	56.33
TCCACTGTCACTTCGTTTCGTT	207	56.9
TCATCAGAATCAGCAACAACAAC	653	56.5
TCATCAGAATCAGCAACAACAAC	717	56.5
GGTGTCTCAACTCGTGCCAT	549	57.16
GAAGAACGCCTTACCAACC	57	58.23
GACGTGTTATCTATCAAGACATTGTTTCG	429	60.14
GACGTGTTATCTATCAAGACATTGTTTCG	262	60.14
GACGTGTTATCTATCAAGACATTGTTTCG	353	60.14
GACGTGTTATCTATCAAGACATTGTTTCG	310	60.14
GTGCTGTGGAACGATCTGACA	1105	58.31
AATTATGCAGTCGCTATTGGAGA	427	56.8
GTAGAACCAACGGCAACAGAGA	49	57.99
CTGGAGGAGGTGGAGGAGAA	1717	57.84
CCAGTGTCGAGCATGTTATGG	595	57.7
TTGGATCTCAGGAAGCTGACTTG	406	59.47
AGTATATGGACAAGGAGATGATCCA	63	56.81
ATTGCTATTATTCGGCTCTCTCTCTC	185	58.71
TTGTCATAAGCGCTAGTGATAGG	37	59.45
GGATTAGATTGTGTGTGATGACCTC	61	57.58
CGTCTGTCTCGTAGTCGTCGA	24	57.71

GGTCACTAACAATCTTCGGTGTG	47	57.28
GATGGAACGCATCATAATTCAGAA	437	58.97
CCTTCAATCCGAGGTCGAAT	172	57.66
ATCCGAGGTCGAATTCTGTG	178	56.23
CTTGACTACTCGGTCCTGTCCATT	25	59.53
CTTGACTACTCGGTCCTGTCCATT	25	59.53
AATTGGTATCCTACTCTCTAGCTTCA	276	57.6
TTCTGGATTATGCCTGACTTCTTC	170	57.62
TTCTGGATTATGCCTGACTTCTTC	90	57.62
AATCTCTTCATCAGTCTTCCTTCTATG	602	56.64
AATCTCTTCATCAGTCTTCCTTCTATG	293	56.64
ATCGGTGATCCTGTGGAAGAG	236	57.65
ATCGGTGATCCTGTGGAAGAG	195	57.65
TAGCGAGGTAGCAATAACACTGC	74	57.46
TCGGAAGATACAAGGTCAGCA	1341	57.03
CTGCTCAATGAGTGGACAGTTC	1158	56.11
GGAGTTCCATTACCTACTGAACCA	131	57.3
GGAGTTCCATTACCTACTGAACCA	252	57.3
GGTGTAGCGATTCTCGGATGT	76	57.75
TTACCAAGACACGAACACGCA	789	58.83
CATGTGGTCACGGATCAACA	44	57.29
CCGCTTCTCTCCATTGCTTC	56	58.61
TTGCTACTTCCACAACGACGT	188	57.03
CAGTGGTTCAGTAGTCCGCAA	39	57.49
TCACGAGAAGACACTAATAATATTGGAA	117	57.65
AGATACTCAGGCTCTTCCACTT	446	56.48
ATTGGAAGAGAATCCGAATGC	369	56.85
TCAGACATTTCGGATAACGGACA	6591	59.03
AATACTCGTGTACTCGTCACCACTG	915	58.33
AGTTCTTCGCTTGCTATTCTGC	511	56.77
GCACACGGTCATCTACGACACTA	736	58.79
AGTTCTTCGCTTGCTATTCTGC	511	56.77
AGTTCTTCGCTTGCTATTCTGC	511	56.77
GCCACTCTACACTGCCACCA	709	58.32
GTGCCAGCGATACAAGAACG	1184	57.99
GACATCTTGGCTCGTGGTATTGAC	1051	60.69
GACATCTTGGCTCGTGGTATTGAC	1097	60.69
GACATCTTGGCTCGTGGTATTGAC	188	60.69
AGTTGAAGAAGATGCGGAAGC	192	57.31
AAGTTGAAGAAGATGCGGAAGC	190	58.64
GCGATGATTACCGTATGCCGAT	1052	61.77
AATCATCGGCTTCTCACTGG	846	56.39
CGACTGAGGAAGCGAGAGTG	2019	57.35
GCAAGATACCGAATGTGCCATA	719	58.58

GTGAACGTGCTAACGCTCGA	99	58.67
GGAGACCTTGTTCAATTCGGA	409	57.7
TCGTGAACTGGTGTGTGGAA	103	57.05
TCGTGAACTGGTGTGTGGAA	103	57.05
TCGTGAACTGGTGTGTGGAA	103	57.05
CATCTTCAATTAGAGCATACGGAGT	35	56.87
CCTCTCTGCTGGCTTAGTTGG	486	57.83
TCGTGAACTGGTGTGTGGAA	103	57.05
GATGGCGGTGTTGGACTTAG	769	56.74
AACTTCGCAAGTGCTCAACAC	94	56.75
TTCGCTCTGATGCTGAGCAC	593	58.86
ACCGAGTTCCAACAGCCAGA	585	59.28
GAACCAATTCCTTATTCAACTGAGACA	108	59.77
CTCAGCAACTCATCCATCTCTTCTC	937	59.51
CTCAGCAACTCATCCATCTCTTCTC	994	59.51
CTCAGCAACTCATCCATCTCTTCTC	994	59.51
CTCAGCAACTCATCCATCTCTTCTC	904	59.51
CATTCATAGCCAACAACAGCCT	324	57.88
CATTCATAGCCAACAACAGCCT	324	57.88
TGACGACGAGGAGGACGAGA	199	60.5
TAGCATCCGCATCACATACG	139	56.82
TATTATTGGTGTGCTGAGGATGC	1046	57.78
TATTATTGGTGTGCTGAGGATGC	1200	57.78
TATTATTGGTGTGCTGAGGATGC	1046	57.78
TATTATTGGTGTGCTGAGGATGC	1200	57.78
CAACTGTAGCAGGTTCTAACAATGG	237	58.03
CAACTGTAGCAGGTTCTAACAATGG	237	58.03
CGACGACGAAGACGGTGATG	300	61.21
CGACGACGAAGACGGTGATG	273	61.21
TCTATACCGCACTTGTTGATGATG	1246	57.84
AGTATGTGTGGTGGTGCATCATT	63	59.64
ATGAGAGTCTGAGATGCTATGCAAGTG	693	61.05
TCATACGCTCAATCAGAAAGTGCT	42	57.78
TCATACGCTCAATCAGAAAGTGCT	44	57.78
CGACTTCATCAACAGTGTC CAAT	160	57.71
GTGACTGTCCGATTAATGGAATTACTG	528	59.99
AATCTGCGAACGGACACAAG	223	57.41
ATGAGCAACACCGAGCACAA	20	58.88
TTCTCATCCACCACCACAGG	372	57.92
TTCTCATCCACCACCACAGG	372	57.92
TTCTCATCCACCACCACAGG	372	57.92
CCACGAAGAACAATGAACGATG	1191	59.07
TTCATTCACTTCTTCAGCCACTT	1087	56.8
GAAGCAACGAAGAAGGCGACT	458	59.61

TGCGCTCTCGTCTATGCTAA	76	56.12
TGCGCTCTCGTCTATGCTAA	76	56.12
AAGTGTCATGGTATATATTGGAGCAA	307	56.94
ATATAACCACACGCTGCCAGCA	174	61.33
CTGGATCAGTTGGCGGAAGT	917	58.73
CTGGATCAGTTGGCGGAAGT	461	58.73
CTGGATCAGTTGGCGGAAGT	659	58.73
TTGACTCCACGAACCATTGC	330	58.14
GTAATGGACCGCATCGTGTG	681	58.45
CCATACAACGGAGGAAGTCAGA	6025	57.79
CAACTACCGTATAACAAGGACCGATT	61	59.59
AATAGAATGAGGCTCTTATAATGAACAG	61	56.02
GGAGCTAAGATGGTTCGAGATCC	381	57.92
GAAGAATTGTTGGATGAAGATAATGAAG	1951	58.63
AAGCAACCTCACTTCTTGACTCTG	325	57.9
GAAGAATTGTTGGATGAAGATAATGAAG	1957	58.63
AATTGGTCAGCATTGATGCAGTCT	71	60.82
CAATTAGTCAAGAGTCAATGATTGTTGG	1483	60.11
CAATTAGTCAAGAGTCAATGATTGTTGG	1525	60.11
CAATTAGTCAAGAGTCAATGATTGTTGG	545	60.11
AAGAAGCCGTCAATAATGACTGAT	1018	57.11
CAAGATAGTACATCCAGCAGTTCGTT	137	58.84
AAGAAGCCGTCAATAATGACTGAT	1164	57.11
GAACTGGCGACCTTGGCATA	57	59.66
CTTCATCACGTATTGGTAGGTCATC	180	57.68
GAAGCGACAACGAGCTGTCA	72	58.76
CCGCGACGTACATCTCAACA	323	59.3
AGAGCAGACAGCGAGACACC	136	56.76
CAATGATACCGCCTCCTCTACC	353	58.6
CAATGATACCGCCTCCTCTACC	353	58.6
AACAGACGTGTGTCTATGTCTACGG	99	58.33
CACGCAGAGATGGTGACAGTT	93	57.4
CCGCTAGACCATTGAATCTTCG	46	59.69
ACCTGTTGTGTTGTCGTTGATTG	87	58.53
CATTGAAGAGATTACCGTGGAG	348	59.58
TGTGATGTCGATACCAACCTGT	692	56.52
AAGCATTCAATTACTATTGAGGATCTTC	655	57.68
CCAGGAGAATGCAGAATTGG	208	56.8
CCTACAGAAGTTCAGGCTTATATTGG	302	57.7
CGTAACCATACCTGCGGCGTA	779	61.66
GCTTGATGCTTGCTGGAGTG	357	58.2
TTGCTCTTCCGTTGCTCTTC	1073	56.89
CTGTAAGCCGTGTCGGCTGA	172	60.93
AACTGAAGAATGGATCGGTTGA	155	57.27

GCCACCGAGAGGACTATTGC	449	58.35
TTACTTCCAGTGGTCATGCTACTTG	316	58.44
TTGCTCTATGTGGAATCGGAA	796	56.92
GCCTATCAGAGCCAATGTCCA	78	58.74
AATCGGCAATAGCAACGTCTGA	76	61.4
GACTTCACAATCTCCGCTCAA	470	56.6
CAATGTCTATTACTGCGTTCAATGTCC	406	60.86
TTGACTATTGTATCTGAAGCTAAGCC	135	56.39
CGAGCACAAGAAGCAATGGT	612	57.57
TCCAGGACACGAGGATGTCA	811	58.6
TCCAGGACACGAGGATGTCA	811	58.6
CAACTCTTGATATTGAAGTCAGTCATC	66	56.43
GATTCTCGGTCCTCAACTCGT	78	56.92
AGTACGGACTTATCAAGCCTGTATG	417	56.82
TGCCACCATCACAAGGAACA	452	59.51
TGCCACCATCACAAGGAACA	260	59.51
CGCCAACAGTTCCAACAGCA	1110	61.74
CGCCAACAGTTCCAACAGCA	1173	61.74
GATCATAGTCAACAGAATGAGAAGACC	1203	57.54
GATCATAGTCAACAGAATGAGAAGACC	1203	57.54
GATCATAGTCAACAGAATGAGAAGACC	1203	57.54
GATCATAGTCAACAGAATGAGAAGACC	1203	57.54
GATCATAGTCAACAGAATGAGAAGACC	1016	57.54
GATCATAGTCAACAGAATGAGAAGACC	1016	57.54
GATCATAGTCAACAGAATGAGAAGACC	1016	57.54
GATCATAGTCAACAGAATGAGAAGACC	1016	57.54
GATCATAGTCAACAGAATGAGAAGACC	1203	57.54
GATCATAGTCAACAGAATGAGAAGACC	1203	57.54
GATCATAGTCAACAGAATGAGAAGACC	1203	57.54
TGGATATACACGGCAGTTCAATC	826	57.64
CAAGACACATGATGGTGAACG	116	56.04
AAGGCTCGTCTGAAGCTGTATG	183	57.4
CACGAATCCAAGTATATTATCAACTGA	45	56.7
GTCATCTCAATGCTCACGGAT	388	56.24
AATGCCACCAATGACTTCCAG	855	58.5
ATGGAAGCGAGTAATCAAGATGA	23	56.67
GCTTATGATCCAGCCAATAGTCA	411	57.06
ACTTCTAGATCGGCGTTGGC	28	58.03
GCTACCACCACCTCAGCTCA	443	57.48
GGATTCAATTGATATCTTCTTCATCC	45	56.02
AGTCCGCTGAGAGTTCATTCATTG	368	60.58
TGAAGCAAGCCGAAGACGAA	302	60.59
GCAGTTCCTCTGAATGTCCGGT	1040	57.85
GCAGTTCCTCTGAATGTCCGGT	159	57.85

CGATTGTAATAAGACTCAACGCTCT	2509	57.05
CCTCGCAGAAGCACAACCTCG	454	60.67
AATGGTTCGTTCGGATAGCG	87	58.65
AATGGTTCGTTCGGATAGCG	93	58.65
AATGGTTCGTTCGGATAGCG	87	58.65
AATGGTTCGTTCGGATAGCG	87	58.65
AATGGTTCGTTCGGATAGCG	87	58.65
CGACGAACATGGAATCAATG	103	56.02
ACAAGTGGACGACGAAGAAGA	116	56.1
ACAAGTGGACGACGAAGAAGA	148	56.1
CAAGAGATCATACTGTGGAGAATAGC	768	56.52
CTCAACGCCATCACCAGCCTA	460	62
TTCGCCAATCGACAACCTACA	1436	56.41
AACCTGATGATGAACATGTCTCCTC	314	57.34
TCAATAATCAGCCAGCATTGG	863	57.34
GGAAGTGTAGATACTGTTGGAGTGC	189	57.14
TTGTCGGATTGAAGAACTCGGA	104	60.54
TCGGAAGAACCACCACTGAT	408	56.59
TCGGAAGAACCACCACTGAT	408	56.59
ATACACACAGACCTGATGAGCAAT	749	56.43
GGTGATGTAGAAGATATGAACGATGT	178	56.49
ATGATGATGAAGACGATGTTCTCT	33	56.26
GGAGAGCTTACCTACGAGGCGAA	185	61.88
CACAAGGACCAGAAGTTGACAG	1494	56.04
CACAAGGACCAGAAGTTGACAG	1494	56.04
CACTCACGATGATCTGTGGCT	83	57.34
ACTTGCTGCTGCTACGGAGA	293	57.47
ACTTGCTGCTGCTACGGAGA	77	57.47
GGAATTGCACCAATGCTCCA	1229	60.42
ACTTGCTGTTGCTACGGAGACG	319	60.43
GGTTCATCATCATCGCAAT	801	56.86
CGACGAATGAGTGCTCCAGT	2273	57.48
TCCAACGCAACTACTTCTACAGC	116	57.41
CGATGGTGCTCAACAACGAC	1334	58.73
GATGTGTGTGCTAATCAACTGGA	116	56.38
GCAGTATTATACAGCCAATCCGA	748	57.04
CTCATCGTAATCTTCAAGGAGTGA	676	56.35
GAATATGTTACGTGTTGCGACGAACT	1680	61.33
GCCATACACCAGCACACAAGTG	63	60.05
TTCACGACATTGTCTGCCAA	33	57.25
GCCATACACCAGCACACAAGTG	30	60.05
GCTCCTGTCGCAGAAGTAGTTG	107	57.9
GCTCCTGTCGCAGAAGTAGTTG	107	57.9
GCCTCCTTGTGTCTGCCATC	375	59.25

GCCTCCTTGTGTCTGCCATC	172	59.25
GCCTCCTTGTGTCTGCCATC	53	59.25
TTCAACAACCTTCCGATGCG	994	59.82
GGAGAACCTTCGTCAGATGAGC	24	58.93
GGAGAACCTTCGTCAGATGAGC	22	58.93
GTGCTCAACGTCTACAACAATGTC	480	57.48
GTGCTCAACGTCTACAACAATGTC	553	57.48
CCACCAGTTGAATGGCTTAACCA	380	61.84
AATCCAACATATGCTGCTCAGTT	500	56.61
CAAGTTACTGACATGGTGCATCGTAC	431	60.64
GGATTGAAGAACTTGGAGGAGGT	929	58.62
GGCAGGACGATTATTGGCTT	319	57.76
TAATTATAGCAACATGTGTCGTCATAAGTC	116	56.14
TTGATGGTGATGGCTTGTGA	1475	57.02
TTGATGGTGATGGCTTGTGA	1523	57.02
GTTGACCGAGGAGATGACGA	283	57.23
TGGACAAGACTATCAACAACAGGA	332	57.41
GGTCGCTATGGAGGTGGTGGT	1706	61.97
GGTCGCTATGGAGGTGGTGGT	1817	61.97
GGTCGCTATGGAGGTGGTGGT	1632	61.97
GGTCGCTATGGAGGTGGTGGT	1686	61.97
GGTCGCTATGGAGGTGGTGGT	1983	61.97
GGTCGCTATGGAGGTGGTGGT	1887	61.97
CTGGACGGATTCAATCACATC	704	56.5
AACCAGATAATGGTGCAGGATACTAC	255	57.74
AACTACCGAATCCTGAAGTAGCAA	496	57.29
GGACACGCTGTGATCAACGT	386	58.16
ATCATGTGAAGAGGAAGTTCGAGAAG	1095	60.1
AATACTGTTAGATGATGTGAAGAGGAGA	1088	56.93
ATCAGGAATCGGAAGCAAGA	1044	56.01
ATTCGTCGCCAATAACCAGAA	524	58.19
TACCAGAACCTGCGCTTCAC	51	57.57
TCTAACATGACGCAGCTCAGTGG	257	61.28
ATCCTGTGGCGGTGATTGTG	607	60.35
ATCCTGTGGCGGTGATTGTG	607	60.35
GCGAAGTTGCGGTGAATATCC	307	60.4
GCGAATAAGAAGAATTGCGGAT	235	58.4
TTCAATTAAGGTCTGCATAATGG	983	58.14
CGATGACTTGCGTGTCTCA	679	59.41
TCCTGATATTACAATTCCATTGGCA	219	60.34
ATGTATGTGTTCAACTATAACCGCAA	137	57.76
CGAACGGAGCATCAACTGTC	137	57.89
CGAACGGAGCATCAACTGTC	137	57.89
GCTTCTCCTTCATATTCCAACCTCG	108	59.26

AAGGACTCGGTGGCTCGGTA	60	60.58
AGGACTCGGTGGCTCGGTAT	61	59.55
GGAAGTCTTCTACCTCACTCG	395	56.57
ATTGTTACTTGATTACCGATGAGACTG	673	57.89
CGACAACCTCTGGATCTCGTAGA	200	57.25
GAATCTTCCAATACACGAATGCC	441	58.5
GAATCTTCCAATACACGAATGCC	273	58.5
GCGGAGCAACACTTGTAGATACTG	526	59
GGTGAGATAGACCATCTGCGA	52	56.4
GCTTCACCACGTCTTCGCACT	68	61.33
ACACAGCAACCAACGAATAACG	488	58.67
TCAACCTCCATTCCGTCTTC	467	56.2
CGCAAGAATTATTCGGTATCG	454	56.17
CCAGAGGAGCTTCGTCTCAC	109	56.2
AATGATCCATTGCGAACACG	1078	58.03
TGTCCTAGTATTGAGAATGCCGTT	269	57.92
GGATTATGAGACGAGAAGAACCG	71	57.91
GGAGAGTCGGTTGTACCATTCG	218	59.46
TTGTCGGTATGCCTATCGCTT	90	58.35
CGGCGATAAGGTTAAGGAAGC	226	58.88
AGAGGATACTATTCGGATGGTTCA	57	56.93
AGAGGATACTATTCGGATGGTTCA	57	56.93
CCTGAACTTGATCGGATTGG	79	56.65
CGAAGCTCTTGTGTGTTGTGTT	26	56.68
GGAACAGCAGGTTGCCAATG	180	60.07
CGTGGCTTGGTGTAGAATCC	1213	56.74
CGTGGCTTGGTGTAGAATCC	1207	56.74
CGTGGCTTGGTGTAGAATCC	1245	56.74
TGTCCACAGGAGTTCAAGCTCTTC	63	60.74
GCTCATTGCAGGAGCACAGG	52	60.51
GCTCATTGCAGGAGCACAGG	52	60.51
AATCATTCGAACATGGATAATTGC	79	57.97
CCAGGAATGTTGCCAAGTACA	561	57.22
TCCAGCGAGAAGTGAACAAGA	2237	57.27
CACTCTCTCACATTCTCCTCGCT	70	58.75
GACCAGGCTAGACCATATCAATCG	561	59.82
GACCAGGCTAGACCATATCAATCG	543	59.82
GAGTTATCAATCTTATCGTCGTCCAGA	155	59.87
GGACGCAATCTGTGGAACGA	2774	60.61
CGCTGAAGTTAGGAGACAACGAGA	1709	60.84
CGCTGAAGTTAGGAGACAACGAGA	1707	60.84
TTGCGAGAGTTGTAGCTCCTGT	1246	57.9
TTGCGAGAGTTGTAGCTCCTGT	1224	57.9
CAGCATCAGTTCACCGTCA	1220	59.25

CAGCATCAGTTCCACCGTCA	1232	59.25
ATCTTCAAGTGATTGGTGGATTG	1453	56.71
ATCCATCTGCCGAACCTTGAC	356	56.23
ATCCATCTGCCGAACCTTGAC	350	56.23
ATCCATCTGCCGAACCTTGAC	431	56.23
ATCCATCTGCCGAACCTTGAC	387	56.23
TGACCACCTACGATGAGAACAAG	242	57.86
GCAATTCGGTGAACGGTCTT	654	58.63
TTATACGCCAGTGGTGATGCT	732	56.89
TTGACGACTGCTGTGGTGGTT	1131	60.17
TTGGACTTGACTGCCAGAGAA	72	57.12
CTGCTATGAGATTGATGATTGCTTC	197	58.12
CGCTCTTGCTAAGGCTCTCTT	1289	56.94
TTGGTGAGCATACTTGGTATTCAG	1005	60.21
AATATAACCATGCAAGTTGTATGACG	514	56.1
TTGGAATGCATAACAGTATTGAGAA	464	56.68
ATGAGCGAGCGGACACTAGA	713	57.26
AACTTGTTGATTATGACAGTGCCA	439	57.37
AACTTGTTGATTATGACAGTGCCA	566	57.37
TCTCCAAGTTGCTCATCTTCTCT	262	56.1
TTCCGCAAGCTCGATCACTA	349	58.2
CACGTGGAATATTACTAGTGCTGGA	128	58.33
TTATCACTTCTTGAATTGGCAGTAGT	1083	56.55
ACGGTGATGATAGTGATGACACAC	1416	57.46
ACGGTGATGATAGTGATGACACAC	1745	57.46
TTCAATATATCTTGGATGTCTGATCG	53	57.37
ACGGTGATGATAGTGATGACACAC	1688	57.46
CAGTATTATTCCGCAGAGATGACG	114	58.82
CAGTATTATTCCGCAGAGATGACG	32	58.82
TCATTGATTACTCTTATGCTGGTT	412	56.49
TTACCATCCAGCGAAGGTCTT	135	57.42
CGTCATAGGATGTGGATGTGGTAC	126	59.13
CGTCATAGGATGTGGATGTGGTAC	180	59.13
CGTCATAGGATGTGGATGTGGTAC	261	59.13
CGTCATAGGATGTGGATGTGGTAC	126	59.13
CACCACCACCATCATCACAA	205	57.12
TTCACTGCTTATGCAACTGAATG	96	56.79
GACGCCTTGCTATCTTCTCTACTTG	56	58.82
AGTTCCGTGTTCTTCACACCTGA	33	59.65
GCAACATATCAAGCCAACCTCA	470	58.7
ATTCATTGGCGGACAAGGAT	65	57.92
AAGCACGGAGAGCAGACAGC	66	59.34
GAGCAACCACTGACGCCAAC	1225	60.27
GCAACAACAAGTCGAGACAGATTG	61	59.8

CAACAGATGCCGTATGGACTT	306	56.32
GCGCTGCTCCTAGATATTGAGG	146	59.12
GAGGCACATTGCAGACCAACA	112	60.66
AGTACTGCACAGCAGGTGTTACTAAG	102	57.16
TTGATTGCCGTTGCTGCTCT	229	60.49
ATCACTATCACCCTACATTGTTCCACC	259	58.38
CAGACGAGTATGACGAGAACAAGAGC	216	61.52
CAGACGAGTATGACGAGAACAAGAGC	210	61.52
CCGTGTTTCAGCAGTTACGACTA	441	56.76
CTGTTACGATTGAGATTACGATGG	1105	56.6
CTTCGGACAGGTCGCCTCAG	822	61.82
TTCAAGCAATATCATTACATTCAACA	1287	56.66
GGAAGGTGCGACAGCGGTAC	82	61.53
GTGTCGGAGCGTGGTCTTGT	393	59.73
AATATGTTGTTGTTATTATTCGATGCG	396	58.47
AATATGTTGTTGTTATTATTCGATGCG	396	58.47
ATTGCTGAGAATGTACTGTATGGC	455	56.23
GTCGTTGGAATACTCACCTCAGC	1386	58.77
AAGGAGGAATACGCTAGCATCC	595	57.59
AATTGCTGAGTCGGTTCCAA	649	56.86
CGACGATTATGTGAAGAAGCATG	196	58.39
GCAGAGTGGCTGGTACTTGG	443	57.01
CATCTTCACAAGACTGTGGCAA	259	57.47
CGCTGATATTCAAGAGGCTCA	111	56.83
AGGCAATTCTCCTCGGCTTG	20	60.29
GGTCGCCACTACAGCACAAG	509	57.98
GGTCGCCACTACAGCACAAG	528	57.98
GGTCGCCACTACAGCACAAG	603	57.98
GGTCGCCACTACAGCACAAG	509	57.98
GGTCGCCACTACAGCACAAG	528	57.98
GGTCGCCACTACAGCACAAG	603	57.98
AGAACAACCTCGCCGCTCAAG	91	59.21
GGAATCCAGAATCACCGAGAACT	1378	59.43
TCACCAATAAGGACGCCGAA	245	60.02
AAGGACCGAGATTGCTGTTG	368	56.46
CGATCACGAGAGGCTCTACAGT	80	57.32
GCACGGCATATATCCACTCAG	84	56.83
GAGCAAGCCGACAAGGAGAA	116	59.14
ATGGCTGCAGATTCGACTACA	21	57.06
CGACTGGCTGCTGACACTTG	691	59.2
GCGATGATACGAATGTTGAGAAGA	1824	59.24
TTATTGTCGTTCAACTGGCTCTAG	118	56.55
ATTGATGCCAGACGGTGCTA	982	57.78
CCAGATGACTATGTTCCATCACAT	189	56.61

GTCACGGCACTTGGAGCATC	83	60.24
TACCGCTTCCAGTGACTCTTG	141	56.7
TTCATTTCGATTATCACAAATATTGCATT	388	58.79
ACTTCGACGACTAGTGGCTGA	1713	56.29
GCAGAGGACGGCTCAACAGT	681	59.04
CATTGGTAGATCATGCAAGGAA	274	56.36
GCCAACTGTGAAGACGACGA	65	58.45
GGAGTGGATATGTTGCAGTTGG	199	58.05
GTCGCAGAACAACAAGAGGCA	173	60
GCTGCTCAAGAGGAGATCACTG	207	57.89
CCTCTGGTCCGTCTACAACCTC	1820	56.57
TTATGTGGTGAAGGATGTTGAAGC	432	59.03
TTACACAACACCGCAGTCAGTC	36	57.41
GGAGTCTTCACCAACTACAACGAG	365	58.01
GGAGTCTTCACCAACTACAACGAG	365	58.01
AACGCAGATTGACGGATTCC	140	58.59
GGAGTCTTCACCAACTACAACGAG	237	58.01
CAACAAGCGGACCATGTTGA	89	59.13
GATCCTGCTGCTCCACCAAC	477	59.25
CATTGGAGGTGAAGGTCGCA	58	60.6
GCATCACACCGACCATCTTG	111	58.52
AGCGATTGCTTATCTTACAACAAGA	489	57.5
CGCTATCAGCAGCCTCAAGG	151	59.7
GACGGCGGCTGACTCTGAAG	743	61.96
GACTCTGAAGGTGCCAACAACCTC	756	58.89
GCTCGGTGCTGAGTGGATTCC	126	59.39
ATTGCGATGAACGTCTCGGA	206	60.18
ATGATAGTGGAGATACCGTTGGA	45	56.27
TGTCTAATATCATCTGGCTTGGC	57	57.06
GTAGAGGACAGTAGAGCCATCGC	2309	58.19
ACACCATTATCATCGTCCGCATT	107	61.23
CGATGGTTGCTGTAAGAATGGA	414	58.7
TGCTTCCGTTCAATTGCCGTA	515	61.09
TGCTTCCGTTCAATTGCCGTA	449	61.09
CGACAAGTTCTCATTGAGCAAG	127	56.4
GAGGAGAATGGAGTGGCACGA	210	61.11
GTTGAGGAGGAAGAGGCGAA	371	58.05
TGTGCCACCAGAATTGTGGACTA	914	61.25
CCATTGTTATACTGTTTATTATTAAGG	919	56.79
CAGAGAGATGCCGTTCAAGC	360	57.23
TATATGAATGGTTGCCAGAGTCC	459	56.78
ATCAGTCACTTATTCTTCTATGTCTCCA	193	56.93
TTGATCTTGAGGCTTCGTGGT	387	58.38
CGAGCCAACAGTGTCCAGTC	55	57.88

GATAGGCTCCAACAATGCTCCA	1047	60.04
GCATGGAGCGTTCTTGGAAC	638	59.27
GCTGTTGGAAGTTATTCAGTTGG	1667	56.65
CGCTACTGCTACATGGCTGGT	377	59.02
GGACTTCCTGATGATTCGGA	487	56.13
AAGGACAGTGGAGAGAAGGAAGT	307	56.33
GAACCACTCCAAGAATCAGAAGG	93	57.87
CATTAGTCGGAGTTACAAGTGGTG	1186	56.61
TTCTCGCCAACCGTTATCAC	399	57.29
TTCTCGCCAACCGTTATCAC	399	57.29
TCAATCTCAATAACTTGGCGAA	557	56.22
TCAATCTCAATAACTTGGCGAA	487	56.22
GTTCCACAGACTTGCGACGAA	90	59.86
GAGTGTGCGCGTTGTCGTGT	277	58.22
ATGGAGTTCATGTCAAGTCCGT	22	57.11
TTACCAATAGTGCCTCGCCAA	95	59.2
CAATGACGAAGGAAGGAGCCT	46	59.3
GCAACACCTTCTCTCTAATACTACC	83	58.13
GAACGAGGTGGAGAATATTGGAA	115	58.13
GCTGCTCACGGAAGTGTAC	957	58.03
GCTGCTCACGGAAGTGTAC	977	58.03
GCTGCTCACGGAAGTGTAC	1004	58.03
GCTGCTCACGGAAGTGTAC	242	58.03
CCACACACACACACAGTACGACA	98	59.05
ATAACTACAACAACGCCGAATACAAC	1740	58.58
AGAAGAGCCAGTCGCCAGAA	1543	58.76
AGAAGAGCCAGTCGCCAGAA	1399	58.76
GAGGCTCAGTTGAATCCAAGTCT	157	57.65
GGCATTGACAGGCGAAGGAG	129	61.61
TTACGGACTACCAGGAATGACG	282	57.75
GCACGAAGTCTCTACACACAGG	37	56.22
GCAATTATTACATTGATGCTTCTCA	384	56.38
GCAATTATTACATTGATGCTTCTCA	265	56.38
TAGAGATGCCAACTGCGATG	68	56.08
TCTGCTGAAGAAGAACAACATCA	98	56.38
GATTGCCGCAACACCAAGAG	96	60.21
CAGCCGCTCGTCCAGTCTCT	67	61.6
GGACTCTGACACCTGTTGTGAATC	354	58.63
ATCGGTCGCATCTATTGTAATC	252	56.16
CTTACCTGTGTGGATGACGAGA	396	56.4
CCACGATTCCGTTATTATGCC	121	57.95
TCATTCTGAACTCACTGGCTGA	440	57.13
TCATTCTGAACTCACTGGCTGA	210	57.13
AATCTTCAATGACACCAGCGTT	1073	57.35

GGCTTCCATTGATTACATTGAAG	921	56.5
GTCAACCTACCGCAACTATTCTCC	102	59.08
TCTTCTCCACTGATTCCACCA	192	56.74
CAGTGAAGGAGCATGGAGAGC	889	58.63
GCTGCTATTCGGATGGATGTTC	271	59.54
TTGTCTGTGTGTGTCTGTTGAG	65	57.52
GGACCAACAACCGTCTTCAATG	203	60.21
TTGAAGTAGCACTTGACACTACATCC	249	57.68
CAATCGGCACTTATTCAAGAACTCA	1049	60.43
CTTGATGAGACGCTACCATTGATTC	1279	59.97
TCTAAGACCATGTTCCAAGAGTATAGAG	1462	56.7
GCTGAATTCGAGGAAGGACAA	353	57.99
TTGCGAACTTCTTGAGAATCGG	789	60.3
AACCATTGCTCGCTGTCACT	151	57
ATGGACACTATCATGCTGATTATTGAC	422	58.46
ATATGGAGAGAGCAGCTACTTGGT	175	56.55
TTGACATTGGAATGAGACCTGA	272	56.71
GTGAATCCTACAGATACAGAACTTGC	983	56.44
TTGAACTCGCCTATCTCTTGTGT	250	56.83
TTGAACTCGCCTATCTCTTGTGT	287	56.83
GTTCTCCGCACAGCATCATTC	533	59.28
CGGATAGAACTCTCGGACCA	270	56.4
GTGAGATGCCATTGAAGGACTG	593	58.25
TTATCAAGGATATGTTAGCCGTTTCG	249	59.42
CGAGCAGATTGGATTACGATG	618	56.95
ATTGTTCTGTTATCTGCTACTCATG	590	56.81
GGTGTATACTACAAGATCAAGTGGCT	50	57.21
GGTACTGTACGCGGCAGCAT	145	59.75
AAGAACAGTACCTGCTTGGACAC	517	56.23
GCTATGAATGTAGTTGAACGTAATGAAG	382	57.71
GCTATGAATGTAGTTGAACGTAATGAAG	382	57.71
CCAGTACTTGGCTGACTTATCTTG	301	56.06
CCAGTACTTGGCTGACTTATCTTG	367	56.06
CCAGAAGAACATACTACGACGGT	371	56.17
GGTGATTCCAGCCGTAATAGG	496	57.2
TTCTCACTCCAACACATTCAACG	609	58.74
GAGAAGGAACTGAATCATGAAGCT	35	56.89
ATGGATTGTGCCGTGTCTGT	1074	57.45
ATGGATTGTGCCGTGTCTGT	1082	57.45
ATGGATTGTGCCGTGTCTGT	1161	57.45
CGAGCAATGTCTTAACGGAATG	1661	58.38
CGAGCAATGTCTTAACGGAATG	1672	58.38
GAAGTTACGTTCCGGAAGTGACA	248	59.16
ATTATTGGACAAGGTGATATTGAAGA	178	56.16

ATCTGCGAGGTCAACTTCAAGA	472	57.67
ATCAGAGTTAAGTGAATGATGGTT	462	56.11
TCTGTGGATAGTGATGATGACGA	583	56.75
AAGCAGTATCCAAAGCACCTCA	1921	57.63
AGGTTCATCATTCTCTTCGTCCA	912	58.7
TGTCTCGTTGTTACCACTTGCC	293	58.75
TGTCTCGTTGTTACCACTTGCC	293	58.75
TACAACTCTGCAACCAATAACCA	125	56.1
TGAAGCCAATCGCAACAGAC	188	58.45
TATGGATATGCTGTTGGTGGATG	1304	58.32
GAAGCCAGCCGAGGACAAGT	131	60.34
TGATGATGAGGATGAGGTTATTGAAG	641	59.37
CTCCACGACAAGAAGCCATAC	264	56.04
CATTGGATGACTGCTATTGTTGC	41	58.26
AAGTGGCGTATCGCTCGGTT	31	60.59
TTATCACCAAGCCGCCATCA	772	60.93
CACATACTGTGCTGCATTCATG	1102	56.38
ATCTGACCTAGATTCTGCATCAAGT	175	56.4
CTTAGGTGTCATTGTTCAACCAGAA	1318	58.29
ATGTCATTCATGTCTCACTTATTGC	48	56.08
GGACTACGAGCCACGACGAG	2363	59.45
AACAGCCTCCAGTTCAACATTAGC	2328	59.67
GGTCATTTCGGTCGCTTCGTC	72	61.49
GCTGTGGAAGTTGTGAAGTGTC	557	56.02
GCTGTGGAAGTTGTGAAGTGTC	573	56.02
GCTGTGGAAGTTGTGAAGTGTC	633	56.02
GCTGTGGAAGTTGTGAAGTGTC	573	56.02
GCTGTGGAAGTTGTGAAGTGTC	633	56.02
GCTGTGGAAGTTGTGAAGTGTC	633	56.02
GCTGTGGAAGTTGTGAAGTGTC	465	56.02
GCTGTGGAAGTTGTGAAGTGTC	573	56.02
GCTGTGGAAGTTGTGAAGTGTC	462	56.02
ACTTCGGAATCGTCGTATGC	884	56.38
CAGAGCGGATGATGTTGATTC	1569	56.81
CCAACTACCACGATAGCTTGCC	65	59.62
TTCCACTAACGCCAACTGATG	41	57.36
AACAGAGCAACAATATCAATTCCTT	1784	56.35
AACAGAGCAACAATATCAATTCCTT	1805	56.35
GGTTGTCCAGTCCGATGTCT	273	56
TTCCGCTCCAGTTATATGTCAA	408	56.1
TGGCGATGGACAATACGAAG	566	58.18
TGAAGAGTTGTTGGACGCAGA	1962	58.09
TATGACGGCCTACGGAATGG	394	59.37
TTCCGATGTGATTCTGACTGTC	468	56.3

CAGTGAATACAGGCTGGACAGTT	787	57.05
ATACGGAGAAGAAGAAGTACGACTGG	91	59.28
GTTGGACTTGATGCTGTAGGTGTA	1890	57.01
CTCTCAGACCACGAACAACAATC	248	57.45
CGATGTGGTTCTTGCAAGTTG	471	56.35
GGAAGTGCAGGAGGCAACATC	1252	61.49
AACTACCTACTTCCGGTCTAGAAGG	140	56.6
GCGTCTCCTCTATTCACTGACTTGT	84	59
GCATATAGGCAGGCACGTATAGG	83	58.72
CCTTCAACCGTTCCATCACTT	24	57.63
CCTTCAACCGTTCCATCACTT	60	57.63
CCTTCAACCGTTCCATCACTT	60	57.63
GTCTTCGGAATCTACATCATCGT	186	56.01
CTCTTCTTCTGTAGTGGTTCCTCTT	612	56.77
CTCTTCTTCTGTAGTGGTTCCTCTT	519	56.77
GTGTGGAACGAATACTCTTGGATG	257	58.55
TTGTTGGCGTATTCACCGAGT	589	59.08
TTGTTGGCGTATTCACCGAGT	532	59.08
TTGTTGGCGTATTCACCGAGT	293	59.08
TTGTTGGCGTATTCACCGAGT	501	59.08
GCCTACTAGCGTTCATGCGTT	61	58.17
CGACATCTCCGAACAACAACA	184	58.21
GCTGTTGATGAAGATGACGCA	426	58.46
GGTGATACTTCGTTGTAAGCATCC	113	57.79
GGAAGTGCCTACGATGGTACTACA	357	58.28
TCCAACAACCTCCGACAGAAGA	635	56.96
CCGTCTCGCTGCTTCTACTAAC	44	57.12
CGGAATGTTGACTTCTGATATGC	409	57.39
TTAACGTGACAAGAATTCCTGTTG	234	57.08
TTGTGGTGGCAACATTGATC	648	56.37
CTCCTCCAAGGCCATGTCTA	175	56.4
ACTGTGATCGCTTGGCTTCTCTA	73	59.16
AACCGACAACCTACTACCACTACAGC	250	56.84
CGGAGACAACCTACGACGACTACA	180	58.07
TTCTATATAGGAATACCGCATCGAT	80	56.31
TCAATATGACAACCTGAGCTGTTCG	827	58.07
GACTGACAACATCTCATCACGCA	3432	59.75
TTACAGCCTCTTCGCCTCTCC	57	59.57
GAACCGCTCACTCTCCAACA	696	57.45
GGAGTCGTTAGCATCGCACA	170	58.47
GGAGTCGTTAGCATCGCACA	371	58.47
GGTATGAGAAGCCGATGACAA	92	56.37
GTGTCTGAGAATGGAATCGGA	90	56.21
TTATCAGAATGAGAGGAGCATGG	210	57.08

TTGGTTGAAGATGTTGCGAA	57	56.38
CAGCATTGAGAGCAGAGCTTG	142	57.61
GCATCCTGATCGCCTTCGTC	517	61.61
GCTGGCTCCGACAGAGATTC	244	58.57
AGGCTGCCGTCATGATTCGT	390	61.51
TGCCTGGTATTCATCGGTGT	1147	57.48
CGTCATTGGTGGCTTAGAATG	54	56.86
TTCATTCTCCGTGCTACTATTGC	362	57.25
CGAAGGTCACACGAGTCATG	693	56.22
AATGATGGAATGGATGACTACGG	1406	58.69
AATGATGGAATGGATGACTACGG	1406	58.69
ATTCCATCCTCATCGCCGTT	384	60.24
CCTTGGAGGTATTCTTGTCGTT	288	56.07
GGAGTCCAGATTACTGATGATCCG	664	59.8
CCTGTCTCACCGTCTCCATCA	329	59.67
CCTGTCTCACCGTCTCCATCA	327	59.67
GCCTACGCTTACGGAGCTACC	181	59.04
AAGGCGAAGGATGTGATTGG	295	58.58
CTGTCATGTGCGAGTGTGCT	1084	56.97
TGACAGTTCACAGATACTGTATAATTGC	386	56.84
TTACGCAACATTGAGATTGTCTTAC	249	56.39
TATGATAACGCCACGGCAAT	59	57.61
AAGAGATTGAGGCGAAGAGCA	2283	57.9
TCGGATTACAGCAGAGACAACG	179	59.96
AAGAGATTGAGGCGAAGAGCA	2368	57.9
GATGATGACGATGATATGGAGGT	518	56.47
GGCTGCAAGGCTGAATAAGG	433	58.54
TATGAATCCGATGATGATGATGC	218	58.34
CTTCATTGTTATCAGCGTATCTTGTTCT	460	58.44
TTCACAGCTTCTCAGATCTCAGC	66	57.57
TATACCGAACTGTGTTGCTCAAGTCT	140	59.29
TATACCGAACTGTGTTGCTCAAGTCT	166	59.29
CGAATACTTCTACTCCATACATCATTGC	1790	59.39
ATGTGCCGATGCCGTTCTCT	6339	61.51
CTCTCTATTGACATGCGGAACA	156	56.61
GAATACCAAGGCTCAACTTCATCG	177	59.96
GCTGATATGATGATTATGCAGAGAA	1759	56.35
GCTGATATGATGATTATGCAGAGAA	1759	56.35
GCTGATATGATGATTATGCAGAGAA	1759	56.35
GCTGATATGATGATTATGCAGAGAA	1864	56.35
GCTGATATGATGATTATGCAGAGAA	1864	56.35
GCTGATATGATGATTATGCAGAGAA	1864	56.35
TTGTGCAGTCGGAAGTGACAA	661	56.44
AATTGGAGACTGGAAGCCTATG	648	56.15

GACGCCTTGAAGAGACGCAT	119	59.03
AATGAGAACGATGAACAAGACGA	370	57.48
CGTTGATTCGTGTCAGATTGC	1188	57.83
CGTTGATTCGTGTCAGATTGC	1372	57.83
CGTTGATTCGTGTCAGATTGC	1193	57.83
CGTTGATTCGTGTCAGATTGC	1379	57.83
GGAAGGAGCACATGGTAGAGAG	615	56.65
GGAAGGAGCACATGGTAGAGAG	615	56.65
TGTGGTCATTCTGCGTGAG	158	59.25
ACGGTTGAGATGTGAAGTGCTG	1168	58.85
ACGGTTGAGATGTGAAGTGCTG	1168	58.85
ACGGTTGAGATGTGAAGTGCTG	1097	58.85
ACGGTTGAGATGTGAAGTGCTG	941	58.85
AATGAGCAGTCATGGAGGACAC	567	57.72
AAGGCGGAGAGGATGATGGT	1688	59.49
AAGGCGGAGAGGATGATGGT	1688	59.49
AAGGCGGAGAGGATGATGGT	1688	59.49
CAAGCTCGCCGTCCTTAAGTACT	316	59.91
CAAGCTCGCCGTCCTTAAGTACT	327	59.91
CAAGCTCGCCGTCCTTAAGTACT	315	59.91
GCACCAGTAACCGAATCTCCT	1863	56.9
GAATGCCGATTGAGTCAGGAG	430	58.33
GAATGCCGATTGAGTCAGGAG	694	58.33
CCTCATTCTACAATGCCGAACA	74	58.7
AGACATCATCAAGAAGGCTGGA	576	57.47
AGACATCATCAAGAAGGCTGGA	583	57.47
AGACATCATCAAGAAGGCTGGA	608	57.47
AAGATCATCACAAGGATCATCACCAT	4354	60.73
AAGGCGATGGCTGACTACGA	1110	59.43
AAGGCGATGGCTGACTACGA	846	59.43
AAGGCGATGGCTGACTACGA	401	59.43
TTATAATTGTTTCATTGACGTTCCG	94	56.91
CGTCCGTAATGTCGCTGCTT	47	59.86
CAGAAGGTGTGATGGTGATGG	80	57.44
GTGCATCGTTCAGCACTTCG	23	59.03
CCAAGTGTATCCGACATCCAC	36	56.44
ATGCCTGAAGATGATTGGATG	925	56.15
GTCAGAAGCGAAGGAGTTGTG	1064	56.26
GTCAGAAGCGAAGGAGTTGTG	1064	56.26
CGGCTCCACTTGCTACACCA	295	60.79
TTAATACCGACGGCTTACCATT	367	56.51
CATGTACTACATGAACACGGCAA	835	57.27
CAGGATACGCAGAACGGCAA	933	60.73
CAGGATACGCAGAACGGCAA	933	60.73

CATGTACTACATGAACACGGCAA	835	57.27
CAGGATACGCAGAACGGCAA	714	60.73
CCTACTTGGATCTTCTGAGGAGTT	314	56.02
CGTCATGGAGATGTCGATTGG	172	59.9
GGAGTGTGACCTGTGTGTTCTG	199	56.71
CGTCATGGAGATGTCGATTGG	172	59.9
CCTATCGGCAAGTGATGTGCG	51	57.78
GGAACACGATGCTGCTGGA	138	57.51
GCTTGTCTTCACAGTCGAGCAT	903	58.21
GGTCTGCCAATACGATTCCG	542	58.99
TTGCGAGAGGCTGAGAGTTC	700	56.94
TACAAGTCAATGAGCTATGTTATTCCTG	1024	58.07
AGTACTATAGCCGCGAGTCGAG	43	56.69
TTCAGATTCATGATTCCGTCTACTTCA	114	61.05
TACTCTGTTATGGCGTTGATTGC	921	57.96
TACTCTGTTATGGCGTTGATTGC	841	57.96
GCTTGAGGACTTGGAACAG	480	56.02
GCTTGAGGACTTGGAACAG	486	56.02
ATTGTGGATAAGGCTGAGGTGGA	384	60.65
ATGTTTCAGAGGTTCCGATACGC	583	59.09
GAGGCATTGAATATCTCAGCTAGTG	169	57.38
CACAGCTCTGATGCCACTGG	319	59
ACAGCAAGCATCGTGTTCT	674	57
CGCCTGGAAGTCGGAGTCAC	512	61.7
ATCACAATGTTTCACAGGATTCTCAA	1740	58.54
TTCACAGGAGGCAATGTTTAC	209	57.24
ACAGTTATCTCCTCTTCGGTCGT	381	57.12
ACAGTTATCTCCTCTTCGGTCGT	381	57.12
TGCTGAATCTCCTGGATATGCTC	398	59.3
TGCTGAATCTCCTGGATATGCTC	353	59.3
CGGATGCTACTCGGACTTGG	1399	59.28
CGGATGCTACTCGGACTTGG	437	59.28
TTCAGTTATTGTTGCTATGGTGTTG	390	57.07
CACAGGTGTCAGAACGACCA	168	56.6
CACAGGTGTCAGAACGACCA	168	56.6
TTGTTGTGGCTTCTGCTCAA	63	56.65
GAACAATGGAGATCAGTTGGTGA	376	57.63
AACATCTTCTTCTGGTCCTTGC	165	56.2
AGGATTCGGTGGACAGATGG	352	58.39
GAACAGGTGGTCATCTACAGCAG	511	57.48
GAACAGGTGGTCATCTACAGCAG	511	57.48
GAACAGGTGGTCATCTACAGCAG	518	57.48
TGAACCAGAACTTGGTCACCA	772	57.62
GGTAGCACATCCAATGAGTAGTAGAC	1078	56.34

TTCTTCTCCGTTCCGGTATTAC	392	56.98
GTCTTCTCGGTGCGAACATC	122	56.91
CGTATTGGTGAAGTGC	89	58.23
CAGTCTATGCCTTACCAATGTGTT	236	57.85
GAGGTGGATGAAGAATGGATGT	2080	56.52
CGTATGGCGACATTAGAAGAAGA	408	57.25
CGTATGGCGACATTAGAAGAAGA	408	57.25
GTATTCATTCTCTAGAACAAAGTTACTCCA	64	56.55
TTCAACGGAATCGAGGCTAT	68	56.02
GGTGAGACTATGCATAGTTGCG	64	56.21
GAAGTGACAACGACAATGATGC	814	56.8
GGATGGAAGTATGAAGGATTATTGC	603	58.06
GGATGGAAGTATGAAGGATTATTGC	555	58.06
GTAATGCCGAATGGACTGGA	865	57.08
AAGTGATAGTCATTGGCAGCAA	1394	56.18
TGGACATTCTCATGGTGGTGGT	721	61
CGTTGCTCTTCTCTTCCTGCT	195	57.57
CGTTGCTCTTCTCTTCCTGCT	248	57.57
AGCGAACTGTGGACACTGAAG	136	56.65
TTATCGCAAGTAGCAGGTATCATC	54	56.42
ATGAATGTCAATGAGGTTATCTCG	751	56.01
ATGAATGTCAATGAGGTTATCTCG	423	56.01
CAATGGCTAAGATTCGTAAGGAA	108	56.39
ATGAATGTCAATGAGGTTATCTCG	351	56.01
TCAACACGTCTTCTTGCTGACA	1243	58.15
ATGAATGTCAATGAGGTTATCTCG	393	56.01
CTTCCTCAAGATCAACTAATCTCCTT	774	56.63
TCTTGGCACAGAGATGATTGTTAC	228	57.07
CTCAAGGAGCTATTCAGGAAGTCA	217	57.86
GTCCATCAATATGAATGCCAACT	56	56.64
TGAGGAGTCTTCAACTATTCACAAGT	858	56.51
GCATATTGGAGGTGGCTCGT	130	58.61
TGAGGAGTCTTCAACTATTCACAAGT	879	56.51
TGAGGAGTCTTCAACTATTCACAAGT	619	56.51
CGACATCATTCACCTTCTTCAATATCC	400	58.95
AGGCTCTGGAATCAGCAACA	91	57.07
AACTCCGTCAACAGGTTATTGC	315	56.93
CTTGACCTATTGCTAACAATGCCA	228	59.19
AATTGAATTACAAGTTGAGCAGTTGA	908	57.29
AATTGAATTACAAGTTGAGCAGTTGA	898	57.29
AATTGAATTACAAGTTGAGCAGTTGA	908	57.29
TTCCATTCTATCCGAGATGGC	270	57.69
GTTAGAGTACGATTGTTCCGTGTGA	143	58.31
ACCACCACCACCATCATCGT	1033	59.52

ACCACCACCACCATCATCGT	1159	59.52
AGCCAGCAGAAGACAGACCA	1400	57.19
AGCCAGCAGAAGACAGACCA	1171	57.19
AGCCAGCAGAAGACAGACCA	1171	57.19
AGCCAGCAGAAGACAGACCA	1496	57.19
CACACCAGCGATTCCACCAA	102	61.45
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ACGATACTCCAATCTGGTAATTCAAGC	1990	60.8
ACGATACTCCAATCTGGTAATTCAAGC	2055	60.8
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GCTCAGGAAGTTATCAGTCTACAATG	319	56.58
GCTCAGGAAGTTATCAGTCTACAATG	400	56.58
GCTCAGGAAGTTATCAGTCTACAATG	28	56.58
CGGATCACACAAGGATCTCTTC	206	57.33
CGGATCACACAAGGATCTCTTC	258	57.33
CGAATGTGCGGATACTGGTG	472	58.6
GTGATTGTTGGAGAGGATTGCC	1085	59.41
AATCACCGAGGATGGAGCTT	608	57.27
GTCAAGCGTCGTATGGTCCTC	113	58.27
CGGCGACTCCTCAATAATACAG	109	57.54
TTAGACGGTGTGATTCTAGGAGATC	48	58.27
CGGCGACTCCTCAATAATACAG	132	57.54
CTCATCCTCGTCATCATCTTCCG	828	61.76
AAGGATACGCTGTGCTGAACA	310	57.12
AGAAGCACACTGAGAAGACATTACAC	12585	56.97
AGAAGCACACTGAGAAGACATTACAC	12576	56.97
AGAAGCACACTGAGAAGACATTACAC	974	56.97
GGAACAGATAGTCTTCTCACAGTCG	152	57.31
CTCAGATTAGAAGACGAAGACGGT	320	56.97
CTCAGATTAGAAGACGAAGACGGT	252	56.97
GGCACAGAATAATCATGGAGTCG	955	59.45
GTGAAGAAGACGGTATGGAAGAAG	79	57.19
AGCACAACTCAAGAAGCA	49	57.36
GCAACCATACACGCCTCAAC	109	57.69
GCAACCATACACGCCTCAAC	121	57.69
ATTGAACGATGTCTCCGATGCT	3337	59.56
ATTGAACGATGTCTCCGATGCT	3328	59.56
TCAACCTGGCAGATATGGCA	3442	58.67
TCAACCTGGCAGATATGGCA	3433	58.67
TCAACCTGGCAGATATGGCA	3430	58.67
TCAACCTGGCAGATATGGCA	3439	58.67
ATTGAACGATGTCTCCGATGCT	3325	59.56
ATTGAACGATGTCTCCGATGCT	3334	59.56

ATTGAACGATGTCTCCGATGCT	3346	59.56
ATTGAACGATGTCTCCGATGCT	3337	59.56
TCAACCTGGCAGATATGGCA	3451	58.67
TCAACCTGGCAGATATGGCA	3442	58.67
TCAACCTGGCAGATATGGCA	3439	58.67
TCAACCTGGCAGATATGGCA	3448	58.67
ATTGAACGATGTCTCCGATGCT	3334	59.56
ATTGAACGATGTCTCCGATGCT	3343	59.56
AGCAAGTCATTGGTGGAGGAA	174	58.24
AGCAAGTCATTGGTGGAGGAA	174	58.24
AGCAAGTCATTGGTGGAGGAA	124	58.24
TTCCGATTGTGGTCCTACTATGG	1329	58.86
TTCCGATTGTGGTCCTACTATGG	1415	58.86
TTCCGATTGTGGTCCTACTATGG	1290	58.86
TTCCGATTGTGGTCCTACTATGG	1310	58.86
TTCCGATTGTGGTCCTACTATGG	1365	58.86
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TTCTTCAATAGTGAGGCAGATAATGG	1673	58.78
CTTGTCAGTTGTCGGAACAGAGC	535	59.92
GCAGTTGAAGTTGTTGCTGTTC	831	56.31
GCAGTTGAAGTTGTTGCTGTTC	865	56.31
GCATTGTTGAGACTTCATAGATCACTT	2393	58.06
GGAAGGAGATATGATAAGGAGGATT	2287	56.2
GGAGAAGAGGAGGCTGAGGA	559	57.18
GGTGGCTGTGAAGGATGCTT	976	58.74
GCAGGCTGTGGAGCAGGTTA	1375	59.98
AGTGATACACTTGTCTGAGTATACTGTCA	232	56.48
GACTCCGATTCCATGCCTGA	85	59.59
TGAATACGCTGTATCTTCATAATAATCG	230	58
AACAAGTAGCCGCATCTGGAG	1944	58.09
AACAAGTAGCCGCATCTGGAG	1848	58.09
GATGCCTCTGGAATGGATCTC	1055	57.19
GATGCCTCTGGAATGGATCTC	959	57.19
AAGTCATGCAGCAGGCTCGT	309	59.6
GATTGTCGATGATAATATGGATGAGA	671	57.19
GATTGTCGATGATAATATGGATGAGA	671	57.19
ACTTGTGCTCGTCGTATCGG	997	57.44
ACTTGTGCTCGTCGTATCGG	1030	57.44
ACTTGTGCTCGTCGTATCGG	861	57.44
ACTTGTGCTCGTCGTATCGG	868	57.44
GTGCCTCTTCCTCGTCCTCT	137	57.11
AACGAGAGGACGAGGAAGAGG	199	58.54
GCACTCAAGGAAGCCGAGGA	75	61.37
TTCCTTCTTCTGGCTCTTGTCG	164	59.59

GCTCTTCGGACACTTGCCTGA	53	61.4
GTGGCTCATCAGGAATACGAA	416	56.37
GAATGTGGAATAATGGCGGTGA	170	60.5
GGTGGACTGGTGTAATGTTGCG	760	61.13
GGTGGACTGGTGTAATGTTGCG	405	61.13
CCGCCGATCAACGATGATAC	97	59.88
ATTGAATAGAACACCTTCACAAGGAAGA	50	60.51
TTGAGCTTATATCAGGCACTCTAGG	148	57.13
CGGAACAAGCTGTGGAGGTA	926	57.41
CGATCAGCAAGGTTAAGAAGAGC	1448	58.35
CGATCAGCAAGGTTAAGAAGAGC	1965	58.35
TCGATCCGAGAGCTATGCAA	981	58.15
ATTGTTGGAGAGGATGAAGTTCTTG	358	58.72
AAGCTGAGCTATTATTCGACGTACTC	1378	57.63
CAATCAGCCAATTGATCCGA	1384	58.1
GCTGCTCAAGGTGCTCTCTC	1395	56.52
GTTACGCCAAGAAGACTCCGA	199	58.06
TGATGAGGAGCCAATGAGAAGT	280	57.47
TTGCCAGATTATCATTATAGGTACCAA	276	58.12
ATTGCCGAACCTTGATTATGGAACA	879	60.49
CAACGAACACATCTGGACGA	2934	56.66
CAACGAACACATCTGGACGA	2934	56.66
CGAAGGACATCTCATCTCACAA	210	56.46
CAACGAACACATCTGGACGA	418	56.66
CAACGAACACATCTGGACGA	643	56.66
CAGTTATGGCTACCTCAATGATTCC	67	58.96
CTGGACAGCAATGAACATGATGT	1204	58.58
CGATTGAGACGATCCAAGTGG	123	59.13
CGATTGAGACGATCCAAGTGG	123	59.13
CGATTGAGACGATCCAAGTGG	107	59.13
CGATTGAGACGATCCAAGTGG	107	59.13
GCGTGGAGAGGATGGAAGAG	872	58.42
GCGTGGAGAGGATGGAAGAG	885	58.42
TGGACCACGAGAAGTATGGATTG	851	59.82
CCTATTCATGTGGAGCAAGAGC	600	57.58
GCTGCACACTTCAACACTGG	54	56.45
AGGCAGATGAGATGGTGGTGA	119	59.11
GCTATGTGTGTATCAGTTCTTGCC	384	56.68
ATATTCACGACAATTATGAGATGACAC	865	56.47
ACCTCACTGGTTGATGAACGAGT	1226	58.64
CCGCTTGCAGTTCAACTGTA	719	56.23
CCGATTATATTGTACCGCACACT	660	56.85
AGAGTCAAGCGAGAAGAGGAGA	1501	56.26
CCACCAGTCGAGTACACAGAGA	56	56.51

CCACCAGTCGAGTACACAGAGA	56	56.51
AACCTTCAATGCCATCGTCA	127	57.6
ATCGCCTGGTTACTCCTGAAG	611	57.05
AACACTCGGACACGTGCCAA	753	61.11
ATGTGCTGTGGAGGCTCTGGA	859	61.71
CCGTGATTGGACTGCTACTGA	568	57.43
CCGTGATTGGACTGCTACTGA	693	57.43
TTCATCGCTGTCTATTCGTTGG	455	58.83
TTCATCGCTGTCTATTCGTTGG	197	58.83
TTCATCGCTGTCTATTCGTTGG	140	58.83
TTCATCGCTGTCTATTCGTTGG	480	58.83
CGAAGTACAACCTATTCACGTCTTCACCT	1036	61
GTGGTGGAGGTCTCTTGGA	417	59.66
ACAGTAATAATGGCTGACGACGA	31	57.47
GCTATCTCGGCAGGTTCAAG	393	56.27
GAACTCAAGGAGAACCAGGACCA	712	60.45
AATGAGTTCATCGCCAGAACA	22	56.88
ACAGTAGTTCAGCAGCAGACACA	900	56.45
ACAGTAGTTCAGCAGCAGACACA	807	56.45
ACAGTAGTTCAGCAGCAGACACA	897	56.45
GCGAACATGCCACGTCACAT	981	61.5
GCGAACATGCCACGTCACAT	609	61.5
GCGAACATGCCACGTCACAT	417	61.5
GCGAACATGCCACGTCACAT	389	61.5
GCGAACATGCCACGTCACAT	433	61.5
AGCTAGTTCTGCTCGTTATAATGTTG	201	56.47
GTTGCCGTCATTGTGCTGGA	170	61.6
CAATGGTTACTGGAGTCAAGGC	652	57.35
GTCGGAGTTGTCGTCTTCGG	389	59.28
CAATGGTTACTGGAGTCAAGGC	509	57.35
CAATGGTTACTGGAGTCAAGGC	494	57.35
CAATGGTTACTGGAGTCAAGGC	593	57.35
CAATGGTTACTGGAGTCAAGGC	588	57.35
CAATGGTTACTGGAGTCAAGGC	606	57.35
CAATGGTTACTGGAGTCAAGGC	582	57.35
CAATGGTTACTGGAGTCAAGGC	582	57.35
CGAATAATGTATGTGGACAGCAA	1161	56.43
GATGACGTTCCAGAGTTATTCCA	163	56.86
AACATCTCAAGTTGTCACTGGA	35	57.38
AAGGAGTTGTTGACGAGGAGAG	2213	56.3
AAGGAGTTGTTGACGAGGAGAG	2213	56.3
AAGGAGTTGTTGACGAGGAGAG	2117	56.3
GCGACGATCACAACATCAGG	31	58.68
AGCGAGAGACAAGGAGTGAGG	42	57.34

GACTTCCTCGAAGCGATAGACA	73	57.32
CGATCTCTATTCTCTTAACGGTGGCT	82	61.12
AGATGGATGTCGGAACGGAA	214	58.93
CCAGGACCATCTTGTCAGCA	125	58.24
TCCGTTGATGGAATTAATCCGA	786	60.08
TCCGTTGATGGAATTAATCCGA	842	60.08
GCTGGAGACTCGGAAGTTACC	23	56.63
AGCTCATCGTATTCAACGTCAAG	863	57.22
AGCTCATCGTATTCAACGTCAAG	893	57.22
AGCTCATCGTATTCAACGTCAAG	878	57.22
TCCTGTGCGAAGTCAAGAGAT	580	56.19
TCCTGTGCGAAGTCAAGAGAT	436	56.19
TCCTGTGCGAAGTCAAGAGAT	548	56.19
TGGATTGGTTCATTGGTCGGT	1076	60.92
CTTCTTCCGTATGCTCTTCGTC	1168	56.9
ATTGTTCTAATGTTAATATCAACCTCGT	86	56.05
TCGACATATACGATCTGGTCTCAG	170	57.04
ATTGGAGCAGAAGGAAGATGAAG	1358	57.67
AATGACGCAGGAAGAGTAGCA	86	56.35
AATGACGCAGGAAGAGTAGCA	86	56.35
GCTGGAGATGATTGTGCGGAT	535	60.94
ACCAACTACACCAGCACCGCTT	472	61.74
CGCACCTGTCTTCTAATCACCC	519	59.59
TGCTCATAACTCAATCCTTCGG	80	57.95
AGGCACTGCTACAGGCAACT	1467	56.3
TGAGACGAGCTATCCGAATGG	148	58.88
AGGCACTGCTACAGGCAACT	1104	56.3
AGGCACTGCTACAGGCAACT	1072	56.3
GTTCTCAACCACACGCACA	86	59.15
AAGTCTATGGAGGATCGACTGGAT	178	58.18
CCACCGAACGTAGCAGTTATCAG	328	59.66
TGCCCTCCATGACGAATTGC	30	60.55
AAGTTAGACCATATGCCGTAATTGT	306	56.33
CGCCATACCTCACGACAGTT	62	57.29
CCAGTGATACGGTGGACTATATGTTC	2321	58.79
GCATCTGTCATTCTAATGCTTCC	1118	56.66
GTCGCCACCAACTACATCAACA	148	59.49
GCACATCAACCATCTACAACATTACG	1187	60.47
GAATGAGGCGACACACAAGG	2341	57.74
GCTAACCCTACGTCTACACAATGAATC	28	59.45
AGGACTGGAATCGGATAAGGC	323	58.16
AGATGGATAAGAACCGAAGGAGA	23	57.07
AAGCAATCAAGCCAATAGCAA	224	56.37
AAGCAATCAAGCCAATAGCAA	499	56.37

AAGCAATCAAGCCAATAGCAA	224	56.37
AAGCAATCAAGCCAATAGCAA	499	56.37
AAGCAATCAAGCCAATAGCAA	224	56.37
AAGCAATCAAGCCAATAGCAA	499	56.37
AACTGCTTCAACTGCGGATT	82	56.18
TGCTCATATAACAATGCACGGT	48	56.86
CAAGCTCCTCCGACGTCAATG	198	61.63
TCAGACAAGGAACAACAGCAGCA	2441	61.82
TCAGACAAGGAACAACAGCAGCA	2169	61.82
TCAGACAAGGAACAACAGCAGCA	2198	61.82
TGTCAGAAGAGGCAATGGCT	3165	57.07
TATTACTACAACAACACCGACGAAG	2679	56.35
TCAGACAAGGAACAACAGCAGCA	2405	61.82
TCAGACAAGGAACAACAGCAGCA	1988	61.82
TCAGACAAGGAACAACAGCAGCA	1093	61.82
TGTCAGAAGAGGCAATGGCT	204	57.07
TCAGACAAGGAACAACAGCAGCA	2465	61.82
TCAGACAAGGAACAACAGCAGCA	830	61.82
TCAGACAAGGAACAACAGCAGCA	2183	61.82
CAGTTAGTCGGTGCTGGTTCTG	180	58.52
TGTCGGTCACTGTTCAAGGA	60	56.18
AGGCTGTTGCTGTGGACTATCTC	295	58.55
GAGCACTGTCCATCATTGTCTG	359	57.75
GAGCACTGTCCATCATTGTCTG	359	57.75
GAGCACTGTCCATCATTGTCTG	222	57.75
CGACTCAACAATTATCACTCTGGA	1337	57.07
AATATACAATATGAACCAGAAGGAACG	145	57.03
AATATATGTGCCATCCGTGGA	202	56.43
TTCTTGCTGTATGCTTCGTTGC	101	59.14
TTCTTGCTGTATGCTTCGTTGC	176	59.14
TTCTTGCTGTATGCTTCGTTGC	206	59.14
CGACACCACAACACTACTAACAATGAC	67	56.54
CGACACCACAACACTACTAACAATGAC	67	56.54
AGACTGGAGAGGATGAGGAGGA	852	57.96
AGACTGGAGAGGATGAGGAGGA	849	57.96
CTGATAATAGCACGTATTCAGATGTTT	1007	56.5
CAGCCGCCTCGTTGATTCTC	663	61.74
CGGCAACTAGCAAGCAGGCT	42	61.5
GATATACGCCGTCGAGCTGCTA	245	60.32
TTGAAGTGACGGCAGAGGAA	2865	58.02
TTGAAGTGACGGCAGAGGAA	2883	58.02
GATATGGAATTGATACGGATAATTGGTT	530	59.51
GATATGGAATTGATACGGATAATTGGTT	530	59.51
GATATGGAATTGATACGGATAATTGGTT	530	59.51

CGAGACGAACTCCGAGATGC	727	59.53
CGAGACGAACTCCGAGATGC	594	59.53
CGTCTACGATCAATTCGACAGG	347	58.33
CGCCGAGCTCACTGACATTG	247	61.49
TTCAGTGTGCTTGGATATGCTG	304	57.52
GGACTTGGACGATGTTGAGC	251	56.75
ATTGCTGGTTACTGTTGGCGAA	1199	60.47
CGTCACTCATCATGCCACCA	100	60.09
TGAAGGAACCGTCAAGGAGAT	514	57.31
CGTCACTCATCATGCCACCA	67	60.09
CGTCACTCATCATGCCACCA	41	60.09
TGAAGGAACCGTCAAGGAGAT	136	57.31
AGAACCGTGTTGCCAAGATC	212	56.3
CCTGGTAGACGTCACTCATCATG	67	58.2
AGAACCGTGTTGCCAAGATC	201	56.3
CGTCACTCATCATGCCACCA	59	60.09
TAGATGAAGATGAAGTTCCAGTTGG	98	57.55
TTAATTCTGATGTTCCGTCGAGTATG	384	59.43
TTAATTCTGATGTTCCGTCGAGTATG	246	59.43
CTCCGAGACCAGTTCAGCGA	295	60.1
CGTTGAGGCAGCCACTATGTG	1094	60.27
CCTCGAACTCGGTCACATTC	874	56.75
CCTCGAACTCGGTCACATTC	595	56.75
ATCACCGATTGGAAGTCTACTGTCT	420	58.29
CAACAATCAAGGATGACGGAGT	538	57.65
AGACGAAGGACGCTACAGTGC	292	58.22
ATCCGAGTTCCGTTGACAGA	1412	56.75
ATCCGAGTTCCGTTGACAGA	966	56.75
TGCTCATCGTGCTTGCGTCT	189	61.64
CCATTGTACGATTCCAGTGAGG	1356	58.05
TTCATCGTCGAGCTCTGAATCG	108	61.33
CGTGTCTCAGCAACGACAAG	1425	56.63
GCTATTATCTCTCCAGGAAGCACAA	434	58.98
GCTATTATCTCTCCAGGAAGCACAA	434	58.98
CGTGTCTCAGCAACGACAAG	1425	56.63
CTTATCCACCGCCTATCAGC	322	56.05
CCTGTTGGTGATGAGTGAGAAGC	465	59.75
TGCTTCACTTCCAGAATGTGTCAA	61	60.62
GGCTTCGTCTGGATGTTGCA	469	60.75
GGCTTCGTCTGGATGTTGCA	596	60.75
GAAGTTCAGAGATGTATGAAGGATAGTG	269	56.93
AACGGCACCTCTAACACCATC	123	57.66
AAGAACGCAGGAGTCAATCG	986	56.62
CTTATCCACCGCCTATCAGC	322	56.05

GCGGCAAGCTCTTATCACAC	88	57.19
CCAGAGACACAGACATTGGTCTT	47	56.92
AAGTGTCTGTGTTGTGTAATGTG	78	56.32
AATGAAGGACAAGAAGTAGAAGAAGG	61	56.69
CCAAGCACTTCACTAGATTCCACT	144	57.67
GCTGCTCCGCTTCCTGTAAG	1340	58.82
GAGAAGCATCCACCACCATC	2846	56.52
GCTGCTCCGCTTCCTGTAAG	1233	58.82
GTTCAAGCATACATCATCGGCAA	256	59.56
ATCAGGATTCGGTGGTGGAA	208	58.78
CAACCGCTTCTCTCCATTACAAC	1151	58.8
CAACCGCTTCTCTCCATTACAAC	1151	58.8
ATTGGAGGAGTTCAACCTGTGATTG	169	61.34
CTCGCAGTTCTTCTCTTAGTTGTCG	40	59.72
GCTTCGGATGCTTCAATGGA	179	59.74
TCTTACTCACAATTATGCTTGGATT	855	56.55
TGTCACGAATATCAGTATTGCACCTG	943	61.03
GAGTTCCAGAAGTTGAACGCAA	268	58.1
TTGATAAGCAGCACAGGCAGA	88	58.27
AAGCAAGCATCGGAATGTGTT	1578	58.32
AAGCAAGCATCGGAATGTGTT	1579	58.32
TTGGAGGTGGTGGATTAATTGCT	853	60.5
TTGGAGGTGGTGGATTAATTGCT	1094	60.5
TTGTTCTCTTCAATATCAACTTCATC	865	57.92
ATTGGATGTGTTGGATTCTCTTG	582	56.71
ATTGGATGTGTTGGATTCTCTTG	582	56.71
GATTCTGACGATGATGATAACTGG	1127	56.4
CACCAACTGTGAACATGTGTATTCC	153	59.2
TAGGAACAACACACGGAGCA	589	56.35
TTGATTGGAGGATTATGTGGAGGTG	107	61.95
CCGACGTGGCTACCATTAC	201	59.95
GCTCCAGTTCACGCAATCCT	1066	58.88
AAGTGCTACGAATATGAGGATGGA	618	57.88
GCAGCAGACTTAATGATTACCTCA	45	56.48
TTGAGCAGAATGGCTGACAATC	442	58.92
CATTGAGATTCGCCTGAGACA	344	57.49
TTCTTCACTCCACCAACTATCAATC	133	57.42
TTCTTCACTCCACCAACTATCAATC	116	57.42
TCCGAATCTCTCCGCTGAAG	414	59.1
TGCTCTAGCTAACTCTCCGTCTC	79	56.03
TGCGTGTCTCACTCTCTCTCAC	79	56.83
GAAGACCGATCATTCTTGTGCT	1048	57.03
GAAGACCGATCATTCTTGTGCT	1136	57.03
GAAGACCGATCATTCTTGTGCT	1087	57.03

CCAGCTCAAGGTGTATATGGTGCT	663	60.36
CGGAATCGGAATAGGCATAGTG	200	59.43
CATGTGCTCCACATATGCCA	86	57.51
TTCGGTCTTCTGGCTGTTGC	64	59.95
TATTCAAGTATCCGCTCGTCAGT	562	56.76
GAAGACTATGACGAAGATTGAGAAGATG	182	58.94
GTACAATCACTATGCAACTCCTGAGC	370	59.26
GTACGAATCCGATGGTCCAG	140	56.52
CGAGAGAGAATCTCCAGTGCGT	192	59.61
CGAGAGAGAATCTCCAGTGCGT	192	59.61
CGAGAGAGAATCTCCAGTGCGT	192	59.61
TGACTGGAGAGTTCGAGAAGAAG	113	56.58
GATCATTCCAACCTCCATCCTC	99	56.16
ATGTCTCCTTCTCCGAGCCTT	191	58.04
CTCACCGTTGCTGCTATGTTC	958	57.12
CTCACCGTTGCTGCTATGTTC	987	57.12
CGAGGCTAGAAGACAGGCGAA	197	60.58
CGAGGCTAGAAGACAGGCGAA	206	60.58
CACGAGAGTGCTAGACGACGAG	833	58.9
CACGAGAGTGCTAGACGACGAG	900	58.9
CACGAGAGTGCTAGACGACGAG	1038	58.9
GACGTGTACCACTATCCATGCC	288	57.93
AAGGTCTGGCTGATTGTCTCG	576	58
ATGCGAAGAATATCAACTGGATCT	565	57.06
TGAAGTGCCGTGGACTGAAG	546	58.45
TAACACAAGAATCTTCACGATAAGTATG	55	56.2
CATTCTTCTCAAGGATCTCTTCAACATC	1353	60.7
CATTCTTCTCAAGGATCTCTTCAACATC	1291	60.7
CATTCTTCTCAAGGATCTCTTCAACATC	1281	60.7
CATTCTTCTCAAGGATCTCTTCAACATC	1353	60.7
CATTCTTCTCAAGGATCTCTTCAACATC	1291	60.7
CATTCTTCTCAAGGATCTCTTCAACATC	1281	60.7
GAAGCACTTGAGCCGCAGAA	475	60.23
CAATCTTGACAGTGTTGGCACA	85	58.28
AATGTAACTCCTGACCAACTTCG	211	56.14
ATCAGTCGCCACTTGAGAGTATGTTC	76	60.82
CGGTCCTTGAGCTGTGATCG	67	60.36
CGGTGTAAGTTGTTGCTGATGG	41	59.14
CGAGAATTCGGACCAGATGT	383	56.23
GGTTCTCACTGTCATCATCGC	1652	56.76
CAGATGCACATGATGCAGACG	292	59.85
TGATCTACATCATCACTCTCGTACG	430	57.56
CCTCCATCGGCATAGCAGCT	194	61.2
GCAGCCAGATTGGAGACAGT	103	56.49

CCAGGCAGGAAGTTGAGGCT	63	60.33
AACATCAAGGCATCAACCGA	205	57.6
AACATCAAGGCATCAACCGA	323	57.6
TATCACACGAGGATGACTGC	58	57.21
ATCAACCATTGACTAGCAACCAC	78	56.8
AAGAATGTCCTATGGAACAGCAGT	1327	57.08
AAGAATGTCCTATGGAACAGCAGT	306	57.08
AAGAATGTCCTATGGAACAGCAGT	279	57.08
GAACACTATTCACTACGTCTTGTCTCTT	83	56.71
TAACGAGAACGAGATGGAGGCA	311	60.69
GGTGTATTGGTTGTACTTGGTGTAGT	88	56.43
CCAGTTATTGCAACACGCCAT	1125	59.47
AACTGGAGCACGACTTCTTGA	689	56.26
AACTGGAGCACGACTTCTTGA	786	56.26
CACCGAGGAGCACACAGACT	529	57.45
CACCGAGGAGCACACAGACT	684	57.45
ATATTCCGCCACCTCATCCG	2049	60.61
GCGATGGCTTCCTATTCTTCT	28	56.35
CGTGGAACAACCTGAAGGTGGA	993	59.58
GCAAGCAAGTGAAGAAGAACG	449	56.53
GCAAGCAAGTGAAGAAGAACG	449	56.53
TCCATAAGACAACCTAATATGTACTTCCG	48	57.2
TTGACTGCAATGTGACTGATGTGA	508	60.17
GATTATGTCGCCGTGTATGGA	332	57.07
GATGGATGGAAGCTTCTGCGA	94	61.18
AGTGTGTGCTGCTCTTGAATCTG	964	58.27
AGTGTGTGCTGCTCTTGAATCTG	198	58.27
GCCACCTACGACAAGCTCTACA	171	58.15
AACCGTTCAGGAAGAGAAGTACAAGA	215	59.7
CCAGTTCTGTGCAAGCCGAT	77	59.84
AATTCGAGATGGAGAAGCTCACC	54	59.69
TTCGCCTGAGCCAAGCACTT	1756	61.89
CAACTCGGCGTGGACAGACAT	450	61.98
CCAGTGGAGTTCGAGCTTGT	470	56.57
ATCGTGTTCTGTGAGTAGTGCTG	388	59.34
ATACAGCACAAGTCACACAGACACATC	327	60.36
ATACAGCACAAGTCACACAGACACATC	517	60.36
ATACAGCACAAGTCACACAGACACATC	190	60.36
ATACAGCACAAGTCACACAGACACATC	192	60.36
AGAGAATGGAGAAGGATGAAGATG	51	56.7
TGTCTGCCTCCTTCTTCTTGA	89	56.32
GAGTTAGTGATGTGTCTGTATGGCA	50	57.02
TGTGTGCTGAGGAACAACGATT	535	59.23
AGAAGCGATGCGGATAACGA	2821	59.4

TTGTTATGCAGTCTGTAACAGAGGA	1708	56.87
ATCTACAGTTCCTATTCTTCTCCAC	1072	56.4
TCATTAACCACGCAATACCGTACAG	70	60.89
GTCTAGATACGGATATCATGTTCGGA	768	58.52
CATGAACCGATCTGGACAGC	31	57.68
CATGAACCGATCTGGACAGC	57	57.68
TTGGTGATCGTCTAGATACGGATA	757	56.54
TGGTGATTCACATGAGAACAAGG	223	58.55
CTTCCGTCAACCTTCCGTCA	108	59.66
GCTGTGTGATGAGAGTTGTGATTG	563	58.38
GCTGTGTGATGAGAGTTGTGATTG	533	58.38
GCCGAGTGCTGCTTCTTCTAC	66	57.97
CCTCCGAAGATCAGTGATTCCAG	159	60.9
TGAACTGTGCGGTCATAATCAGA	77	59.52
CGCATTCCGAACAGAACTTG	203	57.96
GGACCACAATACGAGTCACCA	691	56.96
GGACCACAATACGAGTCACCA	674	56.96
CAGCAGAGCTGTCCACATTG	224	56.56
ACAACTATATACAACACGTCCAATCATC	191	57.63
ACAACTATATACAACACGTCCAATCATC	153	57.63
GAGCAGTTCGTGTCTCGGAGGA	976	59.96
TGTCTTCTTCCTTATCTACTCACTTCC	304	56.7
CAATAGTCCAGAGATGAAGGCAA	513	57.14
GGCTAATAGGATAGCTGAAGAAGGA	71	57.51
CCGACTAGGAGTCTCACTGTATGAAG	594	58.59
GCACTATCAGAATCGGACGGA	603	58.74
GCACTATCAGAATCGGACGGA	603	58.74
TTCCAACAACACTACGCAGACTCC	1187	57.99
TTCCAACAACACTACGCAGACTCC	1190	57.99
TCAGCTCGTGTTGCTTCACA	81	57.71
GTATGAATGAGACCGAACGACA	545	56.3
GCTGTGGAGAGTGAAGAAGTGAT	1902	56.31
TGTCAGTCTCTGCTGCCTCT	1722	59.91
TGTCAGTCTCTGCTGCCTCT	1722	59.91
ACATCATCCGCCCTTCTCTT	56	57.27
CAACGTTAAGTCGACAGTCCACGT	256	61.26
AATTCAGAGTCTCGTGTTCAAGT	1202	56.56
TGATCCGCTATTGGTCATGC	55	58.13
GAATGGCAGAAGGAGTCACG	875	56.91
CGCTACTTCTGTTACAGTTGC	41	56.49
GTGGTGGTGGCATGATGTATG	103	58.16
CAGTTGTCACCGATGCTCAA	80	56.82
TTGTCACCGATGTTCAAGTGCTT	349	60.48
CGGCTGTGTCAACTCCTGGT	117	59.73

TTATGATGCTCGGAGTCGGTT	701	58.27
GTAGATGGACCTGGAGGCGAA	118	60.03
GATGACGATGATGGAGGCGAT	2272	60.78
CGCTAATCGTGTTATCAATACCAT	766	56.16
GGAATCAATAATCGTCACTGCCA	122	59.8
GCAACGGAACACGACTAACAG	498	57.03
GCAACGGAACACGACTAACAG	498	57.03
TTCTACGACTTATACAAGAGTGAGTTCG	109	57.6
TTCTACGACTTATACAAGAGTGAGTTCG	135	57.6
CCAGGCACCATAACTACTACCAC	100	56.43
CCACTACTACGACTACAACTACAACCA	138	56.88
CAGATTATTGATTGTGCCAACTTC	417	56.57
TGATATGTGTGCTTCAGGACCA	246	57.69
CGAAGCGGATATCGACTTGA	20	57.53
ACCTCCTGTTGCTACTGATGTGG	365	59.16
ACCTCCTGTTGCTACTGATGTGG	265	59.16
TTCTTGCGGAAGAGCCGCTA	177	61.91
AACAAGGACGAAGACATGGC	1190	56.3
GAGACGTTCTCAGCGATCAATC	268	57.62
GGATTGTTGTTGATGAAGTGAGAG	1675	56.53
GGATTGTTGTTGATGAAGTGAGAG	1663	56.53
AACACCAATGCCACCAAGAAG	976	58.55
AACACCAATGCCACCAAGAAG	1055	58.55
CGTCTGGTGTCAATCGTGTGC	756	59.73
TTCTCAATGCCTCATCCTAAGC	54	57.21
AGAAGAAGATGTGCTCCGTGA	357	56.19
ATCGTGGCTCTTCCGTGGTC	995	60.99
TCCGATAGAGGCTGTTGACG	504	57.51
GCTCTGGATCGTCATCTTCTG	83	56.12
CATCGCTCGCCACTGTAGGA	440	60.9
ATTCGTCATTCATCACTCGTTG	1227	56.3
ATTCGTCATTCATCACTCGTTG	1163	56.3
CGTCCTGTCAATGCAATGTG	67	57.12
GCACGAGCTGGACAGACGAC	1813	60.58
GCACGAGCTGGACAGACGAC	1837	60.58
CTTGGTGTTCACTGTGGAGAAG	139	56.04
GCCTCTCCTTCTAACGCTTCA	815	57.45
GCCTCTCCTTCTAACGCTTCA	1044	57.45
GCGTGGATTGGAGTTAATGATATACAG	750	59.97
ATTGAAGCAGCCGTGGATAG	1100	56.54
AATACAATCAGCAAGTGGAACATCA	1231	58.6
TTGTATTCAAGGACGTTGCATCTG	110	58.75
TGCCTCGTTGAGTATCGTGA	2293	56.45
GCGAAGCGGATACAGATGTG	2910	57.93

CCGAACCTATTGCCTGACTG	1054	56.9
ATCAGTATTCGGCGTACAAGGA	1754	57.4
AATCGGCTTGACCATCGCTA	571	59.26
AACAATGGTGCTCAGGATACAAG	34	56.94
ATCCACATTCTTGCGTTAGCCA	719	60.44
ATCCACATTCTTGCGTTAGCCA	815	60.44
GCACTTCTCCTTATTGTCTTCGTT	70	56.93
GCACTTCTCCTTATTGTCTTCGTT	108	56.93
GCACTTCTCCTTATTGTCTTCGTT	45	56.93
CTCATTCCGCTAGCATTGTACG	328	58.54
CGGCACTTCTCATTCTTCACA	849	57.55
TGAAGATCAACAATTCACAAGAGAG	66	56.4
AAGCCACCGCTGGACTGTTC	429	61.15
GTACAATGTTCTCGGCATTGAGA	145	57.87
GTACAATGTTCTCGGCATTGAGA	145	57.87
GCAGTGGCGTTGTATCCAGT	893	57.29
TTGGAATGTCGATGGCAATG	318	58.92
AGGCTCTTCGGTGACTGTTGT	350	57.52
TTCGGCTCATTGGTGTGGAC	115	60.47
TTCGTTGTATCCAGCATTGGA	890	57.7
TGACGAAGGTAGTAGTATGACAGATGA	344	57.25
AGGACGAGTAACCGCTTGCT	238	57.7
AGGACGAGTAACCGCTTGCT	238	57.7
AGGACGAGTAACCGCTTGCT	238	57.7
TTGTTCAATTGTGGCTTGGAAT	38	56.68
TTGGCAACAACCTTGCTCGTT	43	58.01
CCATCAATGGCTCATCGTTCC	67	61.16
CCACCAGAGCAGCAAGTTCT	92	56.72
CATCTTCCATCTTATCAAGAAGCAGA	41	58.96
TTGAACGCCGAAGAAGACGA	217	60.46
ACAGAACCTTACAATTGAGCCAGA	517	58.02
GCAGAGAGACGCATCACACG	1083	59.16
TTATGACGAGATGCTACCAGAAGA	319	56.88
AACACATACAGTGACGATGCTTG	275	56.47
AATCTGCGTAGATTGCATTGG	158	56.52
CTAACAACCGGTTTCGGTGTCTG	78	61.23
GTCTGATGCTTGCGAGGATG	1537	57.99
GTCTGATGCTTGCGAGGATG	1537	57.99
ATTGGAGTTGCGTCTTATCATGTACC	265	60.42
ATTGGAGTTGCGTCTTATCATGTACC	275	60.42
ATTGCCGATGTTGTGTTGCC	906	60.34
AATGGAAGTGAAGTGCCTAA	88	58.46
TGACATCACTCAACTATTGCGTCT	66	57.57
CCTTCCGAATCTTGTGCATCAC	328	60.44

TCTAGTCATCGGAAGCAATGG	210	56.53
AAGCGTCCTGATGCCTCCAC	66	61.13
AAGCGTCCTGATGCCTCCAC	68	61.13
AAGCGTCCTGATGCCTCCAC	66	61.13
CTTCTTCTCGTCGCCGTGCT	41	61.54
TCGCTGCTGCTCTTCTTCTC	103	57.26
TTGGTATGTGTCTTCCGTTCC	177	56.13
GGTACGAGTTCTTGAACAAGC	76	56.67
CGGATGAGAAGGACGATGCC	181	61.46
GTCACCGTCGCCTTCAACATC	79	61.4
AAGTTGAGGATACTGGCTTGTTCA	686	58.02
TTCTGCAGTCTATATTGATCATGGA	99	56.66
TTCTCGTGTGACTCTGGTTGC	1110	57.53
GTGTTATCTCATTGGACGAGCA	192	56.45
CGTAATTGTGTAGCGGCGTGA	25	60.63
CAATGTGGCCAAGAACGGAA	40	60.44
AATAGAGTGATCACTGAGAGCTACAGC	78	57.66
TTCCTCGCCGCTGAGACAGT	59	61.96
CTATATTGGAATGAATGGAGGAGAA	462	56.58
GCGCATTCTGCTCGTCAAGA	73	61.17
GGATATGGTGGAGTCTTGTGTGA	884	57.52
GTACAGCGTGTGCAGATTCTG	294	56.54
CAATCCATCCATTGTCAGCATT	723	58.37
CAATCCATCCATTGTCAGCATT	784	58.37
TTGGAAGAAGCTGCAACGAG	587	57.84
TCCACCAATAAGAACAACTCC	449	58.1
GGAAGTGGACGAGATGCGAA	1538	59.77
GGAAGTGGACGAGATGCGAA	1538	59.77
CACAGATGCTCACGGAAGAATACG	29	61.77
ACTTCTGCCAGCGGAGTTGTC	468	60.39
ACTTCTGCCAGCGGAGTTGTC	360	60.39
ACTTCTGCCAGCGGAGTTGTC	138	60.39
GTGTTGGAGTTGCTGAGTGGA	242	57.37
GGAGAATGATGAATTGTTGTGGA	459	57.51
AACATCGCACAAATTGGCAGA	36	58.72
CCATCAGTCAGCAATCAATCG	342	57.77
ACCTCATCACGAACGATTCAAGC	705	61.29
GCTGGACAGGACGATTACGA	194	57.35
TCAATACTCAGCTATCTAGTAGGAATGG	112	56.76
GGATCAGGTTACAGTTGAAGAAG	517	57.93
TTATGTTGTGACAAGGCGCATTC	424	60.82
AGTATATCTACTGGCAGACATTGACAG	718	56.12
CAATCCACAACAGTACATCATGG	682	56.5
TCGAGGCTTCAACTCCAGCA	66	60.62

TTATAGTCACGATGCCTGGCTTGA	931	61.69
TTATAGTCAAGATGCCTGGCGTGA	931	61.69
TCACTGTGCATCGACCTTACC	952	57.27
AACGTTCAACGCGATGATGA	295	58.72
GCAGACTACCACACCAGAACCA	873	58.71
GCTACATTCAGATGTGATTCCAGA	386	57.01
TATTCTTATTGTGCTCATTGTGGTC	1098	56.2
CGAGGTGCCAAGCAATGAAC	155	60.21
CGAGGTGCCAAGCAATGAAC	118	60.21
GACACTTCGTCAACTCCGTCAGA	31	60.29
ACGACTCAATTGTCCGTCTTCAATC	121	61.47
CGAGGTGCCAAGCAATGAAC	90	60.21
AACTATACTCACGAGGTGGTAACTCTT	627	56.2
TATATCTCTTGCTCTCACTTGATTCC	57	56.2
AACATCTATTGTGAACACGACCATC	286	58.01
GGACGGAGCACGGAAGACAT	806	60.99
TTGCTGCATTGTCAATCACAT	307	56.26
AAGATTGTGTGACTGGCTATGGT	300	56.42
CACAATCTTCGGTTATGCGTTAC	110	57.41
CACAATCTTCGGTTATGCGTTAC	118	57.41
TTAATATCTCCGTCTGAAGAAGCC	157	57.65
GTAATCCGCCGCCATATGCT	907	60.74
CGACGATAACCAGACAGTACACAC	1552	57.37
G TTCAGCAACA ACTT GTTCTCTTACTC	117	57.92
G TTCAGCAACA ACTT GTTCTCTTACTC	117	57.92
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GCATCATCCGTGCTTATGGA	272	58.13
ATCATTCCAAGCAACACAGTAGTG	1089	57.01
ATCATTCCAAGCAACACAGTAGTG	1089	57.01
GGTGCAACTTGTCTGCCAAT	45	57.26
ATTCACACTCCTAATCATTCAACAAG	83	56.66
CTTCTTGTTGAATGATTAGGAGTGTG	90	57.22
GGACCAGGACAGTGTTATCGTT	2335	56.68
TTATTGGCTCTACAAGTGCGATT	93	56.85
TTATTGGCTCTACAAGTGCGATT	74	56.85
CGGTCGTACACAATCTGCTGCT	84	61.17
CGGTCGTACACAATCTGCTGCT	121	61.17
TTATGTGGATGGAACGAGAAGATTC	2873	59.36
TTGGCCGTCTTCAATCAGTT	121	56.86
CGAGAGAACTCCAATTCAAGTCA	326	57.22
CGCTCCAACGATTCAACTCT	544	56.62
GTCACCAATTCACCATTACAGTATCAC	68	58.7
CGACACGTTATGAGCAGCCA	80	59.45
AATGCAAGACGAGCAAGCAT	64	57.19

ACATCCTGTGACATCTTCAGTTGT	89	56.35
GCCAAGCAATGTGAAGAAGG	697	57.02
CAGTGCTCAGATGGCTCAGA	259	56.18
CTGCTGGACAGCCAAGAACC	100	59.43
CAGACATGTGAGGAGTGCCTGA	79	59.87
CGACGACCGATGATGTTCT	260	59.51
GTCTCATGCTTCACACTGACACAGG	874	61.94
GTCTCATGCTTCACACTGACACAGG	874	61.94
ATGCTTGTTGGACTCGGATAGAC	78	58.28
TTCCGATTGTCTTCACTTGCT	71	56.16
GGCTGGCGACACTGAGACAT	85	59.84
AACAACAGGAGAAGTAAGTGCATGTG	42	59.64
ATTACATGGAATTACTCGTGTTCAGTCA	45	60.03
TGGACCTTGAAGTCTTCTATGACA	52	56.67
ATGCCGAATCTGTCCTTATGG	398	57.63
ACAGCCGAAGTCAGCAATACG	466	58.99
GCAATCGACCGGTGTGTGAG	36	61.08
CTTGGAAGTTCTGTGGAGATTGC	770	58.88
ATCCGCTTGGTGACTTGAGA	890	56.91
TACGACGATGGAGACGATGC	58	58.27
ATCCGCTTGGTGACTTGAGA	1034	56.91
TTCTGCGTATCGCGATCTCG	83	60.97
TCTCTGCTTGTTATTCATTGCG	32	60.2
GCCTCTACCTGGTTCAGTCTCA	164	57.15
AATATAGAGTTGCTCTCAAGCATTGG	164	58.19
ATGTGGCGTATCACACAGAAGC	599	58.73
CCAGAAGATCAGCATCAATCG	84	56.97
TTCTCAATCCAACCTACACACCACTT	486	57.82
CATCAGAACATGCCATCGTG	2781	57.05
CGTGGTATGTGAAGTTGCGA	305	56.81
AATTGACGACGCTCTTCCTG	343	56.62
CACTGCTGTGTGTGATCCACCA	2260	61.59
TATCAGCACCAGATTCAGAAGAGC	71	58.66
TATCAGCACCAGATTCAGAAGAGC	71	58.66
GAAGGCGTCTATGGAAGTGGG	2453	57.87
GAAGGCGTCTATGGAAGTGGG	2447	57.87
GAAGGCGTCTATGGAAGTGGG	894	57.87
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TTAACACCGTTCTGAACATCAAGG	343	59.06
TTAACACCGTTCTGAACATCAAGG	607	59.06
AATTGTGACATGAACTACGAATTGTGG	1317	61.1
AATTGTGACATGAACTACGAATTGTGG	1344	61.1
AACCGAAGACGCAAGCAGAA	622	59.58
TTGATAAGGAAGGCGAAGGATT	290	57.91

CCTGGAGCATATTCATCGCA	401	58.27
CCGTTGCTGCTATTGTTCTTCA	871	59.01
AAGCAAGTGATTCGGATGATGA	1848	58.26
GCTCGTCAGTTCTTCTCTCTCGCT	145	61.55
GCTCGTCAGTTCTTCTCTCTCGCT	186	61.55
CGCCGTACCATAATGCCAAC	1977	59.8
CGCCGTACCATAATGCCAAC	1977	59.8
CGCCGTACCATAATGCCAAC	1996	59.8
GGCAATCAATGGACAAGCGT	139	59.53
GGCTATATGCGGTGTCTATGGT	328	56.82
AAGAACCAGTATGTGCTCCGA	226	56.04
TGCCTTCTCTGCTGACAACA	397	56.69
CCATCCAACGTCTTCTCTGCGT	87	61.48
TGCCTTCTCTGCTGACAACA	397	56.69
TGCCTTCTCTGCTGACAACA	400	56.69
TTGACTACCTCAGCCACTATCGA	88	57.65
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AATCGCACAGGCAGCAGAAG	838	60.12
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ATCAAGCCAGAGGAAGAGGAAC	1120	57.58
ATCAAGCCAGAGGAAGAGGAAC	1130	57.58
GCCATAGAAGCGACCAGGAT	2081	57.83
GCCATAGAAGCGACCAGGAT	1928	57.83
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CTCAGGTGCTTCATCTACAGTCAA	335	57.32
GATGGCTCCGATCTCACAATACAC	160	60.67
TTATGAGATTATCTGAACGCTCGTC	99	57.72
GCGTCCTCCAGCACTCCATT	107	61.13
TTGTCATCACGGCAGCAGAA	2427	59.96
TTGTCATCACGGCAGCAGAA	2427	59.96
GAACAAGCGAGACCTGAACG	938	57.13
GTGCAGCTGTAATCCTCGGA	779	57.51
AACCTAATCACACAACCTAATGATACTG	1465	57.06
CGAAGCATGTCCGATGATGA	87	59.19
CGAAGCATGTCCGATGATGA	69	59.19
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TAGATGTGAATGGATGCGAGTC	1743	56.38
TAGATGTGAATGGATGCGAGTC	1744	56.38
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TAGATGTGAATGGATGCGAGTC	1744	56.38
TAGATGTGAATGGATGCGAGTC	1743	56.38
GCACCATTATGTGCAATCGTAA	688	57.23
GCACCATTATGTGCAATCGTAA	688	57.23
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ATGACAAGGATCAACTTGCCGAA	422	61.61
GATAATTCCACTTCTACCGATGACTT	202	57.08
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GCAATACCAGACGAGGCTCA	1821	57.51
GCAATACCAGACGAGGCTCA	1375	57.51
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TGCCGTCTACACTCACTACACAG	175	56.73
TTGATATGGTGGTGGTGGTTGA	266	57.26
CGCAGTATAGACTGACGGTGGCT	1041	61.46
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TTATCGGCAATTAATGTTATGATCAG	815	57.41
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AATGAAGATTAAGGAATTGGACACC	144	57.64
TGTCTTCATCACCACACTTATATTCAG	215	57.46
GAGCACAAGTCAGCGCTCTC	520	57.51
GCACCACCTCAGTCGTTAC	254	57.71
GACGTGTCTGATAAGGAAGCAAT	992	56.22
GGAAGTGGATCTGCGGATTG	386	59.08
GAAGTGAACGATTATCTGGTGAA	48	56.18
GTTGCTGTTGTGCGGAGTTATCG	367	58.38
GTTGCTGTTGTGCGGAGTTATCG	437	58.38
CGGCGAAGAAGTAGTTGAAGA	218	56.06
CGGCGAAGAAGTAGTTGAAGA	383	56.06
GGATTACTGTACTCGGTGGCA	63	56.32
CGGCGAAGAAGTAGTTGAAGA	348	56.06
AGATGAAGCAGAGAGCAGAGACG	77	59.03
CTCTTAGTGTTGCGAGATTGGC	37	57.77
AGATGTCGTCAGGAGCACCA	40	57.82
TTATTGGCGGCAACTAATCG	1814	57.43
GGAGCCAACTCATCAGAAGACT	305	56.23
AACTTGGAGGAATTGTTGGACTC	494	57.31
CCACAATCTGAAGCATTCGTC	1876	56.88
ATAATGAAGAGGTGAAGATGTGCGAT	152	60.19
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ATGATGTTAGTGATGTAGATGATGAAGA	152	56.26

ATGATGTTAGTGATGTAGATGATGAAGA	152	56.26
CAACGGATGTCGGATTATCTACG	512	59.35
ATCGTGATCGACGAGAATCATC	768	57.68
ATCGTGATCGACGAGAATCATC	768	57.68
TCACGAACTTATTGGTCATCTTGG	428	59.02
AAGATGAGAGAATGCGTTGGA	441	56.09
TCACGAACTTATTGGTCATCTTGG	446	59.02
GAGGAGTTGCTGGAGTATCGG	136	57.49
CGACTTGGAAGTACGCTGA	2744	58.6
AACCAGGAGACACGGATGCT	867	58.2
AACCAGGAGACACGGATGCT	867	58.2
CACGGATGCTGTTGTTGAGG	859	58.73
GGATTCTGGAAGTCTATAAGTCTAAGCT	59	56.55
GGAGGAGACAACGGAGCAAC	47	58.32
GCGGAGAGGAGAAGAGACGA	155	58.29
ACCAGAAGGAGCACCAGGAG	269	57.92
ACCAGAAGGAGCACCAGGAG	269	57.92
CCACAGACCACCACCACTAAC	1035	56.46
CCACAGACCACCACCACTAAC	1035	56.46
CCACAGACCACCACCACTAAC	1053	56.46
CTACACGCAAGGAATCGCAT	2395	57.47
CTACACGCAAGGAATCGCAT	2395	57.47
CTACACGCAAGGAATCGCAT	2413	57.47
CTACACGCAAGGAATCGCAT	4420	57.47
CTACACGCAAGGAATCGCAT	4420	57.47
CTACACGCAAGGAATCGCAT	4438	57.47
CCTCTGAATCCTCCTGCCTT	668	57
GGAATCATCCAGACAATGTACCA	144	57.4
GGAATCATCCAGACAATGTACCA	174	57.4
GGAATCATCCAGACAATGTACCA	144	57.4
GGAATCATCCAGACAATGTACCA	174	57.4
TTGCCAGACCTTCGTCACAG	341	58.45
TCCGAGAAGATGGTGGCAGT	278	59.24
AATCGGAGTACAATGGAGTGCT	602	56.49
AATCAGGAGGCGATGAGGCT	545	59.76
GACATGCTCTCAGATAATCTATGCG	89	58.14
AGGCTTCGCTAGCAGCTACA	290	56.81
AACAGACATCGACGAGTAGTATGGTCA	197	61.05
TCGTCGTATTCCAGATCAGCA	1395	57.92
CGAGCCAACGGATACTGTCA	274	58.32
GCTCACCAACTACTCGTCACAGT	78	57.15
GCTCACCAACTACTCGTCACAGT	106	57.15
GCTCACCAACTACTCGTCACAGT	154	57.15
GCTCACCAACTACTCGTCACAGT	154	57.15

GCGTGTGTCCAGTAGTAGTATAGGAT	90	58.47
GGAGAGTGTAACGGTTCATCGA	39	57.79
TGACGGCAGCTAGCATCTAGT	50	56.53
AATGTTCAGTGGTTGTGGTGGA	503	58.81
CTGGAGGAGCTGCTGACTGT	384	56.77
TGTGTGGTGCTTCTCATTCTTC	287	58.69
AACCTACAACAATAAGCATCAGAGA	539	56.63
TGGATGTGAGCGGATTCTGT	945	57.68
ATGAGGTTGAGAGAAGAAGTTGAGC	1894	58.29
CTTATGCGAATGGAGTGTTGAG	1836	56.19
CTTATGCGAATGGAGTGTTGAG	2286	56.19
CTTATGCGAATGGAGTGTTGAG	1892	56.19
GCGTACTACAAGCTGTGCCA	65	56.25
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CAAGCGGAATACTCTGCGTGA	1189	59.98
TTGAACCACTAGTTGCAATGTACTGTA	925	58.02
AACGAGAAGCCGATGGAGAT	877	57.42
ACCGTTGCGAGATTAGCGAT	491	58.42
ACCGTTGCGAGATTAGCGAT	131	58.42
CGAACATGCACATCACCAAG	408	57.12
CTGTTGTTGTGTGCGTTGATTG	44	58.74
AATGGAGATGTATGTGTGATAGGATGGA	1292	61.65
ACTCTTATGGTGCTCTTCTTACAATGC	1061	58.5
AATTGTTGGTCTCCATTGTTGTC	295	56.63
CTGATGGAGCCTACCAACGG	1212	59.14
CTGATGGAGCCTACCAACGG	876	59.14
CTGATGGAGCCTACCAACGG	273	59.14
GGTCTACTACATCAAGGCTGCGAA	337	60.58
AGAGGTCCGCTATGAGAAGTCG	1074	58.62
AATTCCTCATGAGATTGCACCA	723	58.12
TCGTAATGGCTGTGGTCTCA	20	56.28
CCTCAGAAAGTTGGCACAGTTC	134	56.1
AATCTACTAATAACTCGCTCTTCGGT	650	56.42
TCTTGTGATGGCGTTGTCT	20	57.74
GACAGTGAGCATTCTGATACATCCG	245	60.5
GATGCGACAAGACCTCCAAT	766	56.23
TCGTGTGGAGAATGTTAGGCT	558	56.04
TGATGAATTAGTTAGCTGGTGTAGAAG	95	56.33
GAGCAACAACGACAATCTTCC	99	56
TGTGATACCAGAGGAGAGTAGAATGAC	476	58
GCAACGGATGTTGATGTGTCA	1249	59
GATGTTGAATCTTCGTATGATGAGTATG	635	58.17
GATGTTGAATCTTCGTATGATGAGTATG	635	58.17

ACATGCAGATTATGGAATATTGATTC	965	56.45
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TTCTTCTCCTTACTAGCATTGACAGC	93	58.41
CATTGGTCAAGGTGAACGGT	195	56.95
GTCGTTGACGCCTTCTGGAT	58	58.74
TTACATTGGAGACGCCTACATTG	196	57.83
TGGCTCCAGTGGTCTTCACG	546	60.8
ACTGAAGTTATGTTGCTAGGAGAGG	655	56.23
TGTTCTCTCTTGTTCTTACGGTTCT	39	56.63
GCCTCTTCTGTGAGATTACTGGA	2064	56.37
TTCAGAATGCCAAGCTCCAG	28	57.63
CCGCATTGTACACGTCTTG	659	59.73
GACACAGTAGACGGCGATTACAC	250	58.33
GACATAACGCCACATATCGCA	1377	58.13
GGTCCACAAGTCGTCAATTCTGG	920	61.57
GGTCCACAAGTCGTCAATTCTGG	780	61.57
GTGCGATGAGCGTTGGTGAG	794	61.36
GTGCGATGAGCGTTGGTGAG	823	61.36
AAGCCGTCTCTTCCAACAGTT	1548	56.7
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AAGCCGTCTCTTCCAACAGTT	1548	56.7
AAGCCGTCTCTTCCAACAGTT	1584	56.7
AAGCCGTCTCTTCCAACAGTT	816	56.7
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TTCGATAATGAGTGTTACTGGCAGA	221	58.85
GAGAGCACAGTTGCCACCAT	268	57.32
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TTGTTGTGAAGTTGCTGATGGA	99	57.87
TTGACGTGTATTCCAGGATCTCC	459	58.95
GAGATATCATGCCGAATAATGCT	1236	56.15
CGGAGAACAAGCGATGGTTC	334	59.26
AGGTGGTTGGAAGACTGATGG	700	57.56
TGATGACACCAACGAATGCT	238	56.11
GAGCCTGAGAGCAAGCGATG	191	59.82
GATCCAAGCCTTGTTGATGTTC	325	57.26
GAGTATCTGCTGCTATTATTGGTCAT	828	56.1
GAGTATCTGCTGCTATTATTGGTCAT	876	56.1
ATGAGGAGTGCATTCTATTGGC	785	56.95
GCTCCAGTCATTGATGCAGAC	741	56.92
GTCGTGGTGGAGTCAAGCGT	171	59.73
CGCTCGCTACAATTCCTCTT	221	56

CAGAGTGATGATGATGGATGCG	83	60.06
CAACTGTCGGAATCTCATCTCTT	878	56.22
CAACTGTCGGAATCTCATCTCTT	878	56.22
CAACTGTCGGAATCTCATCTCTT	878	56.22
GAACATCTATCACATCGTTGCCA	204	58.57
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TCAATCTCGTTCAATGCTCCAAG	884	60.19
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TGGAATACACACAAGACAACGC	427	57.28
TGGAATACACACAAGACAACGC	393	57.28
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TGGAATACACACAAGACAACGC	393	57.28
TGGAATACACACAAGACAACGC	427	57.28
GACCGCTGTTACGACCGAT	809	61.96
GAGTGATTAGCCAACCTTCAGCAA	925	60.56
GGTTGAAGTCTCAGCTCTTGTC	604	57.34
TTGTATGTAATCCGAAGTTGGTGA	428	57.27
CAGAAGTGAGGTGAAGCAGCA	26	57.84
TCGATATTGACGAGAGATTGGA	941	56.02
AATACCGATGAATACCACAACCTACC	150	56.35
GCTTCTCGTGTTGACTCTGGTG	57	58.59
TATCCACTTGATATTCCGTCCAA	536	57.15
GGAAGTGACCATAGCGACGA	32	57.35
GCTGTTGATAGACGACTTGCTG	1734	56.43
GCTGTTGATAGACGACTTGCTG	1787	56.43
TACGCAAGAGGAAGGCACAA	130	58.11
AAGACGATGAAGATGTGGAACC	1976	56.74
GTGCATCATATTGTGCTAGTTGG	224	56.05
TTGGCGGAGATGAGATGTGCG	741	60.71
TTCTTCATCGTGCGTTCTCC	202	57.48
CGCTCCGAAGGTTGATGTTAG	117	58.46
CTGGCTAGTAGTGGATCGGATG	997	57.47
GAGTCAGTCGTTGAAGATGTTGC	689	57.6
GATTATCATTGCCGGATATGCT	450	56.78
ATTCAATATGCCACAATCATTCG	333	57.52
CGACAGAGGAACGATGGCACT	482	61.16
CTCTTCTGGAGTATTGGAGTTCATC	423	56.38
CTCTTCTGGAGTATTGGAGTTCATC	360	56.38
AAGAATCATTGCTTGTTGAGTTCG	406	58.49
TTGTTGTTGATTGGCAGCTG	30	56.94
ATGTTAATGGAATCACAATGTAGTGG	26	57.12
CGTGGCGAGGTCAAGGTTCT	822	61.14
GGAATGTGAAGAATGGAGAGAGA	1459	56.12

CGTGGCGAGGTCAAGGTTCT	818	61.14
GACAAGGCATTCAACGGA CTC	544	58.24
CGTGGCGAGGTCAAGGTTCT	922	61.14
CCAGCTATCAAGGCGGACTG	172	59.42
ACGAATGGAATTAGATTGGTACGA	1166	57.68
ACGAATGGAATTAGATTGGTACGA	1112	57.68
TCTCTACAAGTTCAATAAGCCAGGA	1052	57.41
ACTGATGGATGTAAGATGAGGCA	27	57.31
ATTGGGCATTGGTCTCTTCTTG	496	59.2
ATAGAGAAGAAGTCGTCGGTGTAAC	227	56.09
ATAGAGAAGAAGTCGTCGGTGTAAC	119	56.09
ATAGAGAAGAAGTCGTCGGTGTAAC	77	56.09
ATTGCGATCATTGGTTATCAAGGAA	585	61.53
TCACAATGGAAGGATGGCAA	698	58.49
AGAAGCCAATTCAGCCGAAT	823	57.5
GTA CTCTCCTAGACAACCACCAT T	218	56.43
TGGAGCACATAATCTCAGAGCAAT	581	58.9
AGGTGTCTCTTATGCTGAATGATG	465	56.23
AGGTGTCTCTTATGCTGAATGATG	529	56.23
ATGGATTGGAAGAAGAGTTAGAAGTGT	168	58.01
ATTCATCGGTGCCAATCAAC	45	56.92
ACGAACTCCAGCTCGTTCCG	102	61.27
TGCTCACCAACATGCTCGTC	134	59.41
TGCTCACCAACATGCTCGTC	134	59.41
TATGTAATGACAGCCGAATCACA	55	56.84
ACGGTTATGGTGGCAACTTCG	643	60.71
TATCTGGCAGTTGCTGTCTATCAG	394	57.37
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TGGTTGTTGTGCTCAACAGAGG	24	59.77
GCGGCGACAAGAAGAAGAAG	138	58.8
ACGATATTCACGGAAGTGTCTG	877	56.32
CGCCGAACAACA ACTACAGA	447	56.07
TGCAGAAGAAGAAGACAAGAACG	923	57.56
TGCAGAAGAAGAAGACAAGAACG	954	57.56
TGCAGAAGAAGAAGACAAGAACG	812	57.56
AATGCTCATAGTTATATCACCACACG	1022	57.39
CTACATATGACAGTGTGAAGCATGG	628	57.41
GGACCTCTACGACCACCACA	30	57
CCGTT CAGGACTCTCATGTGTT	177	57.77
CCGTT CAGGACTCTCATGTGTT	183	57.77
GAGTCGTCACCATCTTCTTCG	125	56.03
ATTGGAGGTTCTATGCTGGCT	759	56.56
ATTGGAGGTTCTATGCTGGCT	1240	56.56
GTATCGAGTGCAACATATACAAGGC	352	57.89

TTGTGTGCTCATTCCATTGCT	143	57.83
CACCGCTCCTGCACTCTCCT	29	61.46
CAGGCAGACAGGCAGAACATG	92	60.41
CGGCAACGGAGAAGAACGAG	72	61.75
GCAATGTTCTCAGTGCATCCT	23	56.47
TATCTCCTGCCTCTCACGGTT	92	57.49
CGATCACCAACCTGCTCATC	60	57.68
AATGGAACAATAATGCCTGGAACA	381	60.38
AAGGAGTTATTCACAGAGACATTAAGCC	528	59.51
AAGGAGTTATTCACAGAGACATTAAGCC	606	59.51
GGCTTGGATTAATGATGTCATATCG	177	59.57
GGCTTGGATTAATGATGTCATATCG	297	59.57
GGAGGAGCAGGTCAATTACAGT	373	56.08
ACTGTGCAACATGTCGAGGTT	219	56.77
TGACCAATGTGACTTACCTCCAA	665	58.09
TGACCAATGTGACTTACCTCCAA	490	58.09
TGACCAATGTGACTTACCTCCAA	450	58.09
AAGAACTTATTGCTCGTTGCG	172	56.06
AAGAACTTATTGCTCGTTGCG	238	56.06
TGGTGTCAAGTCAAGTATCGGA	1641	56.8
GCCAATCGTGAGATCGACACA	139	60.63
CAAGAATCAGAGAGGTTATAGACAACG	61	57.8
CCTGCTTGCTCGTTGTGTT	65	60.15
ATCTGCAACTCCATCGAGAATTCAC	792	61.56
GTTCTATAAGTTCGTCAAGGTCTGTTC	521	56.97
TTCTCTCGGTCATAGTTACTCTCGT	482	56.6
ACTTCACAGATGAGGATATGTTGGC	999	59.4
ACTTCACAGATGAGGATATGTTGGC	999	59.4
AAGTTCAGCGCGATCGTCAA	110	60.49
AATTGTGAATCATGTTCCAGGTT	442	56.16
GGTAGTATCAGGATGTGGAATATGGAG	1954	59.11
TTCGTCTCAATTCTCGTTACGGT	77	58.8
CGCATTGTTGTGGATTGTTG	391	57.06
TTCTTCGGAACCTTCATTCGC	764	56.63
GTCGGTGAGAATATCGCCAGA	1353	58.74
GGAGAATCTCGCAAGATCAGAA	1359	57.24
GGAATATTCATCAATTGGTGTACCA	131	57.77
GCTTGCTGATGTTGCTCATTCTC	326	59.99
GTTGCTGTTTCATGTGGCAGATG	793	60.14
GCTGTCATCGTGGCAATCGT	542	60.64
ATCCTGTTCTTCGGCACCTC	761	57.79
CGCCGATGCTCTTCATTCAAC	164	61.57
TTGCCAGAATGATCGCTCCATA	115	61.37
GACTACACCGTCAATGTGATCG	223	56.68

AAGTCAAGATGAAGTGTTTCATTATGG	87	56.66
GCTTCTGCTCATCTACATCTATGCC	50	59.42
CCTGGACGCTGAGGAGATTC	688	58.42
AGATGGCTCAGTGCGGTCAG	3099	59.98
AGATGGCTCAGTGCGGTCAG	1673	59.98
GTCTCAGCAGCAGCAGCAAC	303	58.5
CGTGCTCCTCATCGTTCCAT	129	59.65
CGTGCTCCTCATCGTTCCAT	129	59.65
TGTGCTCTTGGTCTTCATAACTGC	5362	59.43
CCAGCCAACACTTGCTTCAG	617	58.1
CAGACGATGGACAGATTATTGAGA	11750	57.01
CAGACGATGGACAGATTATTGAGA	11794	57.01
CAGACGATGGACAGATTATTGAGA	11437	57.01
TAAGACCTTCGACAACATCATGC	574	57.87
GGTTATGCCTACGGATGTGTTAC	1263	56.33
GTTGCCAGACACCATCACTCA	231	58.15
CGATGCTAGAATGTTCCATGAGTC	562	58.77
CGATGCTAGAATGTTCCATGAGTC	621	58.77
GCATTCCAGACACCATTCCA	1972	57.93
GCATTCCAGACACCATTCCA	2095	57.93
GCATTCCAGACACCATTCCA	2081	57.93
CCTTGTCGTCGTTCTCGGAT	459	58.73
CCTTGTCGTCGTTCTCGGAT	80	58.73
CCTTGTCGTCGTTCTCGGAT	150	58.73
AATAATGGTGAATAATGAGGATCTGGA	311	59.07
GCTTCGTTCTATGTTATATCAGTGTACC	841	56.9
ATTACTGGTAGCAACAACGACTTCT	247	56.51
CCTTGTTATGTACGTGGTGGAA	262	56.22
CCTTGTTATGTACGTGGTGGAA	262	56.22
CCTTGTTATGTACGTGGTGGAA	262	56.22
TATGCTCGTCGTGAAGACCTATC	49	57.16
CTACGGAAGCAATGTATTCAAGC	253	56.85
CTACGGAAGCAATGTATTCAAGC	253	56.85
TTCTATCGACGAACAGGAATTATGC	324	59.51
TGGTGCTCAATAACGCTGTG	138	56.97
GCTTACTTCGCTGTTGGAGGA	251	58.2
GTCGGATACGTGGCACTTCT	73	56.33
CAGCCTGTTGTTTCAGCAGCA	803	59.75
TGCTCAGGCTTCATCAACGC	152	61.03
TGCTGCTCCAACCACTTCAAC	276	59.86
GCTGGCTGTTGTCTGAGAAGA	148	56.86
GCTGGCTGTTGTCTGAGAAGA	148	56.86
GCTGGCTGTTGTCTGAGAAGA	150	56.86
GCTGGCTGTTGTCTGAGAAGA	106	56.86

TACGATTCGTGGCTTCATTCC	265	58.64
AACATACGAGACTGTATCAACGAATG	59	57.47
CGCAGAAGCCAGGATTATGATG	726	60.53
AATGGTGGAGGACAGCAGCA	159	60.23
GGCTCCGAAGATAATTGCTG	289	56.17
CATTCAAGGCAGCGGACAGT	315	59.84
TTCTGGTTCATGTGCCTGCA	339	59.81
CCATGTCGAGGAGCACCATC	90	60.04
GCTACAATCCGTCCGCCAAC	44	61.33
GAAGAATCACAGAATAGCATGTCGTT	308	58.79
CGAGAACCTCTACCGTCAGC	252	56.21
TTGTACTCGATGAGAAGTTACCACTG	942	57.68
CGTTGTACCAATTACAGATGTTATCG	946	57.76
CGTTGTACCAATTACAGATGTTATCG	975	57.76
AGTGATGGAGATGACGACGAG	617	56.35
TTGCCTATGCCTACACGAACG	204	59.73
ATGCCTATGAGATTGTAATTGCCA	1045	58.57
GAAGAATACATGAAGCTCGTGTC	30	57.97
TCCTGCCGAATCGAGTTATGTAC	268	59.12
TCCTGCCGAATCGAGTTATGTAC	256	59.12
TCCTGCCGAATCGAGTTATGTAC	302	59.12
TCCTGCCGAATCGAGTTATGTAC	93	59.12
TCCTGCCGAATCGAGTTATGTAC	302	59.12
TCCTGCCGAATCGAGTTATGTAC	208	59.12
GCTCTCTTATATTGCTGAAGATCACAA	150	58.3
CGTTCTGAGAAGAACAGTGTATGGA	768	58.5
GCTGAGAAGAGTGACAACCAAGA	555	57.34
GCTGAGAAGAGTGACAACCAAGA	555	57.34
GCTGAGAAGAGTGACAACCAAGA	555	57.34
AATCTGAACGAAGTCAGAGAAGAAC	898	56.19
GGTCAGGCTAACTTCTCAGTGC	350	56.86
GATATGGATGAGACTATGGATGAACC	724	57.89
GATATGGATGAGACTATGGATGAACC	836	57.89
GATATTAAGGCATCCGAGAAGACG	868	59.15
CAGGCGAGAAGAACACCAAT	236	56.46
GGCAGTGTATGGTGTGTGGAGA	131	59.48
TTCTGCCACCACCACCACAC	80	61.41
GGCAGTGTATGGTGTGTGGAGA	131	59.48
TTCTGCCACCACCACCACAC	80	61.41
TTGGTCTTGGAGGTCATTGC	86	57.17
AAGGTGTGTGCGTTGCGTAG	78	58.45
CTGGTGGAGAAGCGACGGAT	64	61.12
CGGTGCTCAAGTACTGGATTG	68	56.97
AGGCTCCGTGTCAATACTGG	90	56.33

GTGTGGAGACCTCGGAGTAACTAAGAAAG	52	61.78
GCAGTTATGTGTCCTTGTCAGTAGTG	65	58.03
GTACATTGTACGTTGCTTCGGATACTTC	416	61.14
GTACATTGTACGTTGCTTCGGATACTTC	416	61.14
TTAGAGACACGAGACGCCGAT	88	58.55
TAGAAGTGTGGCAAGATAATTAATAGGA	77	57.02
ATCTCCATGCCGTTATGCCA	178	59.88
TGCGCATATGCTAAGTGATGC	65	58.56
CACCGCTCCATTCTCTCTAT	55	57.68
TAATAATTGTGGACGGAACATCTACC	31	58.37
AATACAGACCGAGAAGGAAGACAA	444	57.19
AATACAGACCGAGAAGGAAGACAA	698	57.19
AATACAGACCGAGAAGGAAGACAA	420	57.19
AATACAGACCGAGAAGGAAGACAA	698	57.19
AATACAGACCGAGAAGGAAGACAA	233	57.19
CCGCCGAGCAGTGTATGATC	62	60.2
TCGTGAGATTGGAGAAGAAGAGC	1444	58.72
AATGTATAGTGGTTGAGGTTGCAA	99	56.52
TTCATTGATAGTGGAATGGAAGATG	695	58.08
AAGTATGTAGACGAGAAGGAGAGAGTTG	99	57.99
TTGTCGTTGTTGCATCTTCTGG	98	59.74
TTGTCGTTGTTGCATCTTCTGG	163	59.74
TTGTCGTTGTTGCATCTTCTGG	98	59.74
TTGTCGTTGTTGCATCTTCTGG	163	59.74
TGTAGATGACCGAGCAATGGA	296	57.77
ATCATTCGCATACTTCATCCG	4741	56.31
ATCATTCGCATACTTCATCCG	4741	56.31
CATCTTCCGACACTGTCTCTACG	95	57.63
TGATCGGTCTGGAACTAAGTGG	71	57.79
TGACAAGACGCAGACAGGCA	246	60.16
TTACCACTTGTTGCGAGACATG	39	57.43
AACAGATACAAGCGTTGATGACA	229	56.11
AACAGATACAAGCGTTGATGACA	222	56.11
AACAGATACAAGCGTTGATGACA	224	56.11
TCGCACTGCCAAGATTGAGA	1761	59.11
CGAAGGTACAGCGTGGCAAG	274	60.39
ATTATGACTTGGCAGTAACTGAACC	437	56.67
AATGCTCAATAATCTGCCGACA	1353	58.33
TGTCTGATGTGAATGCCTCTGA	126	57.89
CGTCATCATCGTTATCTGCCT	761	56.4
GTGCTTGCTGACTTACCGTGT	288	56.63
TTGCTTCTCCTTCTCCACTCTT	83	56.09
TGTGTATTCGGATAAGGTTGATGA	707	57.21
AAGGACGGATTATTCATTACATAG	530	56.53

AAGGACGGATTATTCATTACATAG	560	56.53
AAGGACGGATTATTCATTACATAG	663	56.53
CGTGTAGTTCGCTTGATGATG	3745	59.23
CGTGTAGTTCGCTTGATGATG	3745	59.23
CGTGTAGTTCGCTTGATGATG	3745	59.23
CGTGTAGTTCGCTTGATGATG	3745	59.23
CGTGTAGTTCGCTTGATGATG	3745	59.23
CGTGTAGTTCGCTTGATGATG	3745	59.23
TACTTCAATCCAGACAACACTCCA	3834	57.41
TACTTCAATCCAGACAACACTCCA	3834	57.41
ACCATCGGCAAGAGGCAGAG	388	61.25
CAAGAACTACGATAATGATGGAACA	400	56.2
GGAACCTACCACCTGAACTCATTCTACA	68	59.81
GGAACCTACCACCTGAACTCATTCTACA	68	59.81
TTATGCCTATTCTCCACAGTCAATGC	56	61.37
TTCCTGTTGAATGCCGACTT	515	56.86
CGATACGACGCTTCCACCAA	641	60.59
GGCTCGTCATGCAACTGTGG	254	61.22
GATCACATGCCTCAAGACTTACTATG	196	57.19
GGTTGACTCTCGATGCTGCT	299	56.65
CGGTGAACAGTGAGAAGCGAA	46	60
ACATCAGTGCTTGCTAACCTTCC	63	58.46
ACATCAGTGCTTGCTAACCTTCC	31	58.46
CCGAATATGGTCGCAGCAAT	167	59.52
TTCGGTTGGATCAGGATGAGC	207	60.91
TTCGGTTGGATCAGGATGAGC	68	60.91
CCAGAAGGAACCGAGCCAGA	480	61.22
CCAGAAGGAACCGAGCCAGA	404	61.22
CCGAGAAGCGTTGAATGGTT	223	58.77
GATTGTCATGGCTGCGAGAC	781	57.83
TTCCGACTTGTGACCAACACT	23	56.74
CAGGAGATGTTACCGATGC	767	57.68
CAGGAGATGTTACCGATGC	757	57.68
CCGATCACCGATAATATGGTTG	208	57.82
AGCGACATTCACCTTCTCCATT	472	56.61
ATGGTGGACGTAGAGGAGGTG	96	57.58
GCTGGCGGAGATTAGGAGTT	245	57.12
CGTAGAGGAGGTGGAGGAGGT	102	58.29
GGAGCAACTGTGGCGATAACG	222	61.48
GCCGCAGAGTCTTATCAAGG	700	56.27
GCCGCAGAGTCTTATCAAGG	682	56.27
TTGTATTCCTCTCCATCGTTGC	119	57.81
ACAGTTATGGTGATGAAGCTGTGACA	123	60.76
GCACTAATAATGGCTTCTCCGT	77	56.29

GGTCTGCCAACGTATTCTGAA	94	56.44
TTATGTGGTGGTGCCTCAGA	145	56.12
CGTCTATCCGCCAACTCAAG	303	57.05
ACCTGCCGTTATTGTAGTTGTACCTCA	340	61.9
TTGAAGATATACGAAGGACGAATTGGTA	946	61.04
AACCTGATTACTTGACTCTTCCGA	872	57.19
GATTCCAAGTTGATATTCTCACTACG	1066	56.36
AACCTGATTACTTGACTCTTCCGA	872	57.19
AACCTGATTACTTGACTCTTCCGA	872	57.19
TGGAATGGAGGTCAGATGGA	414	57.43
CAATGGTGCTGTATCAACTGGA	813	57.23
GAATTGGAGCTTCCGTGTTCA	438	58.76
GAATTGGAGCTTCCGTGTTCA	304	58.76
TTGTGATGGTATCACCTCATAGGC	166	58.88
GAAGGCACACTCAATACAGACACA	785	57.92
GGAGTGCTCAACACACGGAGT	517	58.81
TGGATTCATTATAGTTGGCACGAT	1237	58.44
CAACAACGGCTTATGGATGAGG	81	60.3
ATGATGACCGAAGACGAGAGAA	522	57.47
AGGAGAAGAAGGATGATCAGAAGG	481	58.05
CGAACACGATCACGGAGATG	1807	58.68
CGAACACGATCACGGAGATG	1807	58.68
GCAAGATGAACGAGGAGGAG	759	56.11
CAGCCAGTTCATCGTCTCCA	39	58.39
CAGCCAGTTCATCGTCTCCA	36	58.39
CAGCCAGTTCATCGTCTCCA	165	58.39
CTCGCTGTCGGTCTCCAAC	110	59.04
CGATTGGTCCAAGATTGAGCCT	260	61.25
CTCGCTGTCGGTCTCCAAC	110	59.04
CGATTGGTCCAAGATTGAGCCT	375	61.25
CGATTGGTCCAAGATTGAGCCT	284	61.25
GCGATTACTGCTGCTGCCAA	660	61.01
GCGATTACTGCTGCTGCCAA	678	61.01
TGCCAGAGCGAAGACGATCT	1001	59.68
TGCCAGAGCGAAGACGATCT	1063	59.68
CAATCATATTACATGCCAATTCTGT	654	56.01
CAATCATATTACATGCCAATTCTGT	716	56.01
TGCCAGAGCGAAGACGATCT	1072	59.68
CCGACCACTCCACAGATGATG	359	59.94
TAACAACACTACAACAATGCCGATG	3266	56.49
AATAGAAGCGGCACTGGACA	315	57.05
AATAGAAGCGGCACTGGACA	364	57.05
ATTCGTGATCGTCTCTCTGTGA	273	56.04
ATTCGTGATCGTCTCTCTGTGA	273	56.04

GTGAGTGCCAACTCGCATCTG	97	60.42
AATGCAACACTTATTCCGTATCCAT	59	58.77
AATGCAACACTTATTCCGTATCCAT	142	58.77
ATGAACTTGGAGTTACCATTGATGA	459	57.65
AACATTCCATTGCTAAGATACGG	132	56.14
AACGAATGATTGTACTAACACTTGCTC	194	58.05
CGTAGCAAGAACAGAAGAGAGCA	85	57.72
TCGACAGTGGCATTGTGGTC	3983	59.1
TCGACAGTGGCATTGTGGTC	1022	59.1
TTCGTTGCTTGGATGACTCTTGT	916	59.75
TTCGTTGCTTGGATGACTCTTGT	824	59.75
TTCGTTGCTTGGATGACTCTTGT	976	59.75
AGCGGTTGGTCTGATACTTCTC	2111	56.23
AGCGGTTGGTCTGATACTTCTC	465	56.23
CTGCGAGGAAGTGACGAATC	250	57.07
GCTCGCCGATATGCTCAGAT	282	58.99
GCTCGCCGATATGCTCAGAT	410	58.99
GCAATCGAACCAAGTTGAACA	240	57.33
GCAATCGAACCAAGTTGAACA	240	57.33
GCAATCGAACCAAGTTGAACA	240	57.33
GCAATCGAACCAAGTTGAACA	240	57.33
AAGAAGGATGAACCAAGTGGCT	201	56.49
GGACGATGGAGGATATGACG	2443	56.45
GGAACGCCTATATTCAGCCA	717	56.44
GGACGATGGAGGATATGACG	1410	56.45
CCACTCCAGAACCTACCACTACTC	367	57.05
GGACGATGGAGGATATGACG	871	56.45
TATTGAGAAGAAGTTGAGGTTAGCGGAT	756	61.65
CGAAGAGAGCATATGTCTGAAGA	76	56
GGAGTGACTCAAGTAGTCTGAACGA	114	58.58
CCACATAAGGAGGCTATCAAGGA	2926	58.28
GACCGTACCTCAATGATCCAAG	25	57.15
AAGATCGCAACGGTTGATAGC	262	57.96
GCTCCGTCAATACCTCAACAAG	86	57.49
GCTCCGTCAATACCTCAACAAG	84	57.49
GCTACCGCTAGTACACAATGTTCAAC	27	59.22
GAAGCCGATCATCGTGAACA	121	58.24
CGTGGATTACATCACCGACTT	82	56.16
CGTGGATTACATCACCGACTT	31	56.16
GGAACGGAGATATAGAAGACGACA	476	57.51
GAAGATGAACGAATCAATGAGGAG	138	57.9
GGAACGGAGATATAGAAGACGACA	476	57.51
GGATATGCTGAATCAGTCTGA	164	58.67
GGAACGGAGATATAGAAGACGACA	507	57.51

CGAGCCACTCTCATTGACAGC	106	59.59
TTCCTGATTCTCTCTGCTCTTGC	154	58.86
AGAGAACACAGCTCTATCAACGC	409	56.6
TACGATGAGTTCCTTAGCAGAGATTC	72	58.25
CAATGCTCAATGTGCCTTACG	166	57.92
AGTTCCAGGCGTCGAAGCTCT	97	61.35
GTTACGGATGTATGTGTGTCTAAGTGT	99	56.56
TGCCAAGCGTCCAGAGAGAA	941	60.62
TGCCAAGCGTCCAGAGAGAA	1055	60.62
TGCCAAGCGTCCAGAGAGAA	952	60.62
TGCCAAGCGTCCAGAGAGAA	941	60.62
TGCCAAGCGTCCAGAGAGAA	1055	60.62
TGCCAAGCGTCCAGAGAGAA	952	60.62
TGCCAAGCGTCCAGAGAGAA	736	60.62
TGCCAAGCGTCCAGAGAGAA	940	60.62
TGCCAAGCGTCCAGAGAGAA	667	60.62
TGCCAAGCGTCCAGAGAGAA	804	60.62
TGCCAAGCGTCCAGAGAGAA	804	60.62
TGCCAAGCGTCCAGAGAGAA	736	60.62
TGCCAAGCGTCCAGAGAGAA	940	60.62
TGCCAAGCGTCCAGAGAGAA	667	60.62
TGCCAAGCGTCCAGAGAGAA	736	60.62
GTCAACTACAGCCAACAATTCAG	501	57.29
AGAACGAATGACCGCAACTG	349	57.41
AGAACGAATGACCGCAACTG	441	57.41
AATCGGTCTTGCTTCTCTTG	1075	57.17
AATCGGTCTTGCTTCTCTTG	923	57.17
CAGTTGGTTATGATTATGTATGGATGA	790	57.16
CAGTTGGTTATGATTATGTATGGATGA	874	57.16
GGCACCAGTCATTCCTCCTT	5032	57.63
GCCAGTATTGGACTAACCGAGT	149	56.09
AAGTCGGCATCATCATGGATC	54	58.41
GGAGAAGTGAGGTTGTTGTGGT	184	56.76
GGTTGGTCTGTATCTGTGAGCCT	454	58.27
GGTTGGTCTGTATCTGTGAGCCT	404	58.27
ACATGAAGAAGCCAGGCGAAC	1679	60.21
CAACGGCGAAGATTATGATAGC	524	57.56
CAACGGCGAAGATTATGATAGC	563	57.56
TTAGTGTCACATTAGACCATGC	248	56.38
GGTACTGTCATGCTCATCCGA	151	57.21
CAACATTACACTATGCTCTGGCTT	660	56.43
CAACATTACACTATGCTCTGGCTT	445	56.43
CGGTTGTTACATAGTGCTCTC	791	56.12
TGTGCTGGCTATACACTCGGT	273	57

AGTGCCTGCTGATAGTTGTGG	712	56.57
GCGTGCCTAATGATCTTCTGA	292	56.68
GGCTCTCACTTGGTCTCTGG	252	56.04
GAGCCAATATCCACGCCTTACC	275	61.69
CCTTCTCGCCTGTTGACAAG	188	57.14
CAATCTGAAGGCCTTCACGTG	84	59.31
CCACTCAACCAACTCCAAGG	1792	56.67
ATCACCATCTCCACCAACCA	80	57.2
CCACTCAACCAACTCCAAGG	1792	56.67
CCACTCAACCAACTCCAAGG	2062	56.67
GCCGATGAAGCCAAGAAGAC	1457	58.47
GCCGATGAAGCCAAGAAGAC	1634	58.47
CCACTCAACCAACTCCAAGG	897	56.67
GCCGATGAAGCCAAGAAGAC	3809	58.47
GCCGATGAAGCCAAGAAGAC	4079	58.47
ATCACCATCTCCACCAACCA	28	57.2
CCACTCAACCAACTCCAAGG	1990	56.67
CCACTCAACCAACTCCAAGG	2038	56.67
CCACTCAACCAACTCCAAGG	1990	56.67
GCCGATGAAGCCAAGAAGAC	4055	58.47
GCCGATGAAGCCAAGAAGAC	4007	58.47
CCACTCAACCAACTCCAAGG	1894	56.67
CCACTCAACCAACTCCAAGG	1894	56.67
GCCGATGAAGCCAAGAAGAC	3911	58.47
GCCGATGAAGCCAAGAAGAC	2087	58.47
GATCACAAGTTGTATGCCTGAAGG	1064	58.68
CATTGTCACTTGCTGTTGCTATC	855	56.26
AAGGAATGAGCCAAGATGAAGTC	2866	57.53
TCGATAACTTGAATGGTCCAGCT	178	58.76
CGAACTTGGCGAGTTAGTGC	307	57.26
GTGTCCATTATGCTCGGAAGAAC	374	58.63
GAAGGCAGTTCTTGAAGAGCACA	268	59.64
CTGAAGTTGTTGAACCGAAGAGT	570	56.35
CCGACCAACAACCTCCGATTC	152	58.98
CTCTGTCAGTGAAGTCCGCCAT	735	60.26
ATACGAGAAGGAAGCGGCAA	303	58.54
GGAATCAGTCAGAGCCATGTG	188	56.77
CTCAGCAGTGATATGACCTCTCC	407	56.66
AATGATGAATACTGTGTTGGCTACA	197	56.53
ACCTTATGAGAGATGTCGTGGAA	1077	56.48
GGCAATTGTGTTGACTGATTATGAG	231	58.6
AGTAATTGGAGAGCTAGGATATCACAG	728	56.66
TTCAATCCAGATAGATATCTCCTCACT	1268	56.82
CGCAACACACACTCTTCTTCTG	1216	57.29

TGTTCTGTCCTGCTTCCTTC	1054	59.81
AATCGTGTCTTCTTCATCAGTTCA	113	56.67
AATCGTGTCTTCTTCATCAGTTCA	112	56.67
GGAACCTTATGCCGTGGAA	158	56.36
ATTCCGACCACCTTCTTCCTC	368	58.13
GCCTATTCCGATCCAGTTATGAG	257	57.82
TGCGAGAGAATGCCACAGAC	2462	58.55
TGCGAGAGAATGCCACAGAC	2435	58.55
TGCGAGAGAATGCCACAGAC	2303	58.55
AAGCATCCAGAACTTGCTACAAG	195	56.57
ATGGAGCAGTGTTGAGCAGTG	437	57.55
AGTCATCTCCGTCACCAGCA	446	57.82
AGTCATCTCCGTCACCAGCA	321	57.82
TGAGACGACGAGAGGAAGTGA	58	57.18
ACACCGACGATGTTCTACACTGC	1525	60.06
ACACCGACGATGTTCTACACTGC	653	60.06
CGAATGGAATAGTTGTGGAGCA	2672	58.7
CGAATGGAATAGTTGTGGAGCA	2611	58.7
GGTACGGTAGCGGCTATGGA	140	58.67
GGATGTATGGAGCTGGCGGAT	334	61.99
GGATGTATGGAGCTGGCGGAT	40	61.99
ATGATGTGGCTGCTGAGTCG	2781	58.42
ATACCACAACGGCTCAATCG	892	57.17
TTGGTGTTTCATCAGCGGATC	26	58.09
CTGTGTACGACATCATTGAATCCAT	341	58.8
AAGTTGCCTCCTATTACTCGTTCA	947	57.29
CAAGAAGTGGCGTCAAGGAC	1493	56.98
AATTCGTTGCCACGTCATGA	425	58.57
AGGCACGGAGTTCACTTCGG	276	61.14
GCCAATCACCTGAGCAACTG	57	57.89
CAAGAATGATAAGGATGCTGCTG	364	57.67
TTAAGGTTGAGAGGCAGTTGCTTC	97	59.89
TTGTTGCCAATCAGTTGTCTCG	704	59.74
GCCAATGTGCTCTTATCCGA	668	57.38
GACCTGCCGACGACTACGAG	1437	59.45
GACCTGCCGACGACTACGAG	1427	59.45
GACCTGCCGACGATTACGAG	1284	59.29
AACAACAGTATGAACAAGGCGAT	251	56.53
GTCAGTTCGCAGACATGCCACT	2178	61.21
GACTATCTGTCATGAATCTACGCAA	281	56.36
TAGGCATTGTTGGCTTACTCATAC	101	56.35
TTGTGTGTTGTTCTTCTGTCTTGG	125	57.95
CCTCTTCACAGGAACTTCGTCA	64	58.04
ACACCATATTCTCAGAGAACACA	2785	56.41

TAGTCACAATCGTTCAATGCCA	59	57.76
TGTCCAAGGAGGTACATTAGCTC	166	56.22
AGCAGCAGTGATTATGAACCTACG	95	58.53
AAGGAGGTTGTAGTTGTTAATCAGAATG	122	58.31
GCTCTCGTAGATGGTCTTCACTCA	174	58.67
TCATAGAGAGCACCGAGCATT	349	56.28
CGACTACTGATGACGGATGACTT	1176	56.99
CGACTACTGATGACGGATGACTT	1174	56.99
AAGCAGTCTGGAGAGGCAACT	883	56.89
GAAGAAGATACAGGTTCTATTAGTGTGG	815	56.24
ACAAGAATATTGGAAGAACTTGATGC	485	57.94
TACCTGTACATTGTTACATACTCGTT	738	57.03
GCATTGTTCTACCGCTTCTCG	784	58.6
ACTCCGTCATACTTCAATAATTATCGAA	145	58.59
CCAGACTTGAAGCATCAGAACGA	488	60.36
CATGTACCGCCGTTGTCTGTT	425	60.38
TTGTGCAGTTATTGAACAGTTCCA	1600	58.34
TTGTGCAGTTATTGAACAGTTCCA	1120	58.34
CACATCTTCACGACTTGACGGA	1263	59.73
GACACCATCACCAAGCAGAAC	1811	56.67
GCTTAGTAGATCACCGTCGTTGA	884	57.22
GACTTCCTGATGATTGTTGCCA	388	58.63
GACGGATTGGATGAATGTTGA	2048	56.91
AATGCCAACAGTTCATCTCCA	587	56.72
GGTTCTCACAAGCTTGCGCCA	39	59.86
GCTGCTGCTTCTTGCTCAT	99	59.31
AGCGGTCCACCAGATGAATG	173	59.51
ATCAAGAGCCAGAGAGCAAGC	689	57.51
CGTGGCTCTAACATGGAAGC	1972	57.05
TTGCGATGCGGAACAAGTTC	512	60.72
GCTGCTGATGATTGCCGAAG	104	60.46
AATGGCTTGTCGGATGTGTT	385	56.58
GACATATCGTCCGCACTTG	277	57.93
AATCACATTGTACACATCGGAGAA	466	57.18
TTCGTA CTGTTGCGCTGGT	456	59.33
TTCGTA CTGTTGCGCTGGT	530	59.33
CAGTTGGAGGAGAAGCACACAG	553	58.59
CATTGCCTGTGTCGCTGTCC	50	61.22
TATTCCAGTAGCAGCCGCAA	263	58.14
TATTCCAGTAGCAGCCGCAA	222	58.14
TATTCCAGTAGCAGCCGCAA	274	58.14
TATTCCAGTAGCAGCCGCAA	194	58.14
CAAGTGTGGAGACGACGGAT	413	57.16
TCAAGGACCGAGACGAGGCT	1327	60.86

CTCGAGCTGGTCGCCGTAAC	72	61.78
CCAACAGTTGACGAGGCAGA	137	58.45
GATACATAGAATACTTGACGGCAGGCT	67	60.92
TACAGCCGCAAGAACCAACT	4313	57.11
AGAAGCTCACACCGTTGAGG	155	56.57
AGAAGCTCACACCGTTGAGG	179	56.57
CCGAATACCAGAAGGATGGACTA	238	58.15
CTCAATCCGCCAGTCTCCAC	2285	59.24
GCTGCCAACAGTCACACTCA	77	56.94
AAGAGAACTTGTAAATCAACGAGTGG	386	56.87
GTTGTGTTGCGGACTCTTG	3348	57.86
TGGACGGTGGAGACAGAGGT	545	59.11
AGAGTACGACTACAATACTATGAATCCG	979	56.59
AATCTGTAATGACGACTATTCAAGCG	103	58.84
TAATAATAATGCTCTGTGCATATCCTGCT	39	57
CACATAGCACGGCATAAGCA	899	57.04
AACCGTCAAGGACAACCTCAACA	183	58.21
AACCGTCAAGGACAACCTCAACA	195	58.21
AACCGTCAAGGACAACCTCAACA	378	58.21
AACCGTCAAGGACAACCTCAACA	293	58.21
AACCGTCAAGGACAACCTCAACA	280	58.21
CCGACAGCCTAAGAGCAGAA	138	56.93
CTGTTATATGGTTGGTCAGCCTAAC	524	57.03
GGCGTATTGTTGCTGGACCA	819	60.47
GGCGTATTGTTGCTGGACCA	819	60.47
TGATACAGGCGAAGAGCAAGT	782	56.35
ATTACTGCTCTTGGTCGCTGA	95	56.35
TCCAAGTACAGTCTGGAGAACCTATG	144	58.79
TCCAACACACTCCAATTCTCC	293	56.22
CGGCAGATCCTCCAGGTGAG	59	61.66
CGCAGCACTATTACAGACTATGGT	65	56.46
CATCCTCGTCGGTGATCGG	70	59.91
CAGAAGGACAGCAACAGCAA	1149	56.22
TCATCTTGACTGGCTTCTGGA	415	57.06
TTGGTCAACGTGTTGAATATCAG	115	56.35
GATTGGCCTCTCGGAGGATAG	53	58.75
CTCCAGATTCACCGACGCTTC	475	60.71
CTCCAGATTCACCGACGCTTC	493	60.71
GTATTGATGACCTCCGCAGCA	326	59.68
CAAGTGCTCCGATAATGTGACA	303	57.38
AAGAAGCATCGATTCATGTGG	316	56.37
AGACGAGCAAGGAGGTTGAGGA	200	61.21
CGGACTTATCGTTGACGGAAG	69	58.32
TGAACGAGGCTTGGCACTACT	1250	58.6

TGAACGAGGCTTGGCACTACT	436	58.6
CCACTACGAGAGATCCGAGCA	495	59.03
CTAACGATATTGAAGACGCTAGTGG	120	57.4
AATCAGCAGCAAGCCATCAG	169	57.66
ATTAGGCATCATCGGTCTTCTG	503	56.95
ATTGCCACCGCTCTCACATC	3470	59.66
ATTGCCACCGCTCTCACATC	3485	59.66
CTGCACCACAAGTGCACCGT	140	61.73
GCTGGAACAACCGTTAGACTCA	1714	57.99
GCTTGTGCTGTTGCTGGAA	1159	61.06
GCTTGTGCTGTTGCTGGAA	1159	61.06
ATGATCTTAATTCTGAAGGAAGTTCA	2318	56.4
AATAACACTTCTGAGCCTATTATGGTT	279	56.17
GCTTGTGCTGTTGCTGGAA	1237	61.06
GCTTGTGCTGTTGCTGGAA	1237	61.06
CGGAGTCTTCACCACCATCG	351	60.07
CGGAGTCTTCACCACCATCG	392	60.07
CGGAGTCTTCACCACCATCG	333	60.07
CGGAGTCTTCACCACCATCG	415	60.07
TCAGTTGGACAATCTCAAGAAGAAG	172	57.77
AACCAATGTTGCTCTTGCTCA	366	57.09
GTTGAGCCAATCGGATGAATC	2588	58.05
AACGCTATGTACTCAGTCAGTGGTC	710	57.62
GGTATATTGGAGAAGTGAACGCA	1805	56.98
GCAATAGGACAGTTCTGAAGATGTTG	821	59.24
CGGATGTAGCCAACGAAGAC	495	56.89
ATGGAATGAGTGGATCTTGTA	720	57.14
ATGGAATGAGTGGATCTTGTA	718	57.14
TTGAACCTTGGAGATAATGCTACA	105	56.71
AATGCGATAATGCTCAACTCA	137	56.24
CTACTACAGAGGAATGCTTGGAA	836	57.75
AATGTAATGGAAGAACAGAGTATGAGC	595	57.26
ATACCAACTCACGATGTCTTCCTTC	843	58.62
GCCGTCAGTATCCGTCCAGA	931	59.65
GCCGTCAGTATCCGTCCAGA	1014	59.65
ATGCCTCAGCCAATGCCAAC	362	61.87
TGATCCTTAGACAGTTATCTGAAGGTCA	398	59.58
AGCATCCAACATTCTTCTGACTG	385	57.1
GCCTCTTCTTCTGTCGTCTCTA	32	57.27
CTAGTGGTCACCGACGGACGA	90	61.97
CAACCACTCCGTCTCCATCTG	398	59.15
TTACTGAGCACGAAGGACATGA	404	57.11
CAATGGATCGTTGAATACTGTTGAAGA	1004	61.27
CAATGGATCGTTGAATACTGTTGAAGA	557	61.27

CCTTGTCGCTGCCATGTACC	2289	60.09
TGAACAAGAGACCGAATGCC	1731	57.32
ATGGACCTAGTAGATCCTCTTGCG	26	58.84
ATGGACCTAGTAGATCCTCTTGCG	26	58.84
ATGGACCTAGTAGATCCTCTTGCG	57	58.84
ATGGACCTAGTAGATCCTCTTGCG	26	58.84
ATGGACCTAGTAGATCCTCTTGCG	57	58.84
TCATTCCGTTCTCACGATATGG	59	58.51
TCATTCCGTTCTCACGATATGG	59	58.51
TCCGTTCTCACGATATGGACTAC	25	56.88
TCCGTTCTCACGATATGGACTAC	25	56.88
ATGGACCTAGTAGATCCTCTTGCG	57	58.84
TCATTCCGTTCTCACGATATGG	29	58.51
CGAACCGAGGAAGGACACAC	35	59.14
ACGCATACATGTCCATGCTG	79	56.6
CGCAGACATGCTTGCTTCAC	94	59.18
GACAATGTCATCAAGTATCGTCCAT	187	57.96
TGTATTCAATGCGAGTAGATGGTT	496	56.59
ATTCAACGAGGAGCCACCGA	989	61.48
ATTCAACGAGGAGCCACCGA	1698	61.48
TCGCAATCGTAGTGGATCTTCTTCT	186	61.31
ATTCAACGAGGAGCCACCGA	950	61.48
ATTCAACGAGGAGCCACCGA	1659	61.48
ATTCACATACACATTCACTCACCTG	109	56.74
TTATGTGTTGAGAAAGTAGTGGCAGTC	156	57.68
AAGCTCTTCGAGTCAGAGTTGG	399	56.6
TTGTGTGGTTCTGATGAGTTCAC	473	56.29
CGGAAGCGAATTCAACGATT	583	58.76
AATGGAACACTTACGGTGTATATTATGC	607	58.73
CTAGTCAGGAAGAGGCAGTTTCG	122	57.01
ATTCACACTCACTGTCGCTAACG	373	58.07
TTCCGTGTCAGGTGCCAACT	829	60.12
AGAACTCCGTCACAATCACTGC	533	57.92
AGAACTCCGTCACAATCACTGC	503	57.92
AGAACTCCGTCACAATCACTGC	548	57.92
CGGAAGAATACGAGCAACTCAG	261	57.77
AAGCCAATGTGGTTGCTACATAC	990	56.92
GGCACTTGGTTCTAATGATCCTGT	130	59.39
TTCTCTGTAACATCGGCTAAGGTT	54	57.29
TGTGTGAGAGAAGCAACCGA	51	56.52
GGAGAGAGAAGAGTTAATCACGAATG	1955	57.78
TACTGGTTCAATTCTAGCAATCGACTGT	72	61.36
ACACACACATTCACTGGACACC	57	56.83
CTGGAAGTAGGCGGAGAGGA	86	58.08

AAGAGTCATTCATCACCACGATT	117	56.33
GGTGCCTGGTCATTGTGGAA	268	60.33
TCCAAGAAGACGAAGTGCTCA	1737	57.27
TCCAAGAAGACGAAGTGCTCA	1748	57.27
CCGAAGAGACCGATTATGAAGA	133	57.07
ACAATGTTGATGAAGATATCACCGA	103	58.43
CCGAACAGTATGATGGACACC	286	56.44
TTATCAACTGCTCCATCAAGAAGA	2017	56.86
CTCGTTGCCAACTTCTCACA	689	56.06
CAC TTGTTATTCTTCACCACTTCTTG	2490	57.27
CATCGCAGTATGCCTACTCGTC	195	58.49
ATGATTCACCGTTCAAGAATGTCT	478	57.7
AATTAGACAGACACCTTCTGTCTTGG	64	58.04
GGTGGTGTTCCGGAATTCATTG	62	58.74
ATCAATAGATGTTGGAGTATCGGTTA	52	56.18
CCATCTTCTTCACTTCGTCCCTT	174	56.21
AGAAGACAATCAACTCCATCGG	62	56.89
CATTCGTATGCACTCTTCTTACAAC	640	56.04
TACAGGAGACGAGGAAGATGGA	674	57.48
CAGGAGACGAGGAAGATGGA	674	56.4
GTTACAGGAGACGAGGAAGATGG	673	57.9
CTTCAAGTCAGCACATCCACTC	249	56.11
CTTCAAGTCAGCACATCCACTC	596	56.11
CTTCAAGTCAGCACATCCACTC	407	56.11
GTGGACAGACAGAAGGACAGAAG	1511	56.65
AGAATGATCCAGAAGTATACGAACATGA	37	59.36
GCGACCGAGCCTTATGGAAT	34	60.01
CGCACAAGAACAGTTAGGAATG	2227	56.25
CGCACAAGAACAGTTAGGAATG	2199	56.25
GTTCCAATAATCCACAGGCTCA	641	57.67
GTTCCAATAATCCACAGGCTCA	421	57.67
GTAGTTCCAATAATCCACAGGCTCA	421	59.41
AATTGCACCAGAACTCTATTATTG	132	57.51
AGATCATCACACATCACATCTATGC	127	56.76
ACTCGTCAGTTACAGTATTCTTAATCGG	35	58.45
TGAGCTACAACAGAGCCATCG	486	57.73
GGATGGTGTAATGTGTATAATCGAAG	916	56.82
AGCTGTTATTCGAACTCTTATGAGATAC	438	56.09
GAATGTTTCGAGAACGGCAGCT	385	60.34
TTCAAGCAATGTCCTCGTGTT	396	56.94
TTAGCCACCACAACGACGAC	162	58.22
TTAGCCACCACAACGACGAC	162	58.22
TTAGCCACCACAACGACGAC	162	58.22
TCTGCGGATGATGATGGTGA	1514	59.58

CCGTCGGTTGTTTCATGAGATTG	2689	61.21
GCTACAGGAGTTGGAAGGAAGAAG	218	58.63
ACAATGGAATGTAGATGACACGGTA	141	58.37
TTGTCTACTGGTATCTGGAACGC	64	57.08
TCAAGGCGAACAAGGACACG	1586	60.77
TGGAAGAGGAAGAATCAGCAA	712	56.22
TCTTGTGGATGTTGCTGACG	745	56.82
TCTTGTGGATGTTGCTGACG	751	56.82
AATAATCCAAGAGGAGCTTGCA	457	56.8
AATAATCCAAGAGGAGCTTGCA	127	56.8
CCACTGCCAGATGAAGAAGTTC	679	57.53
CCACTGCCAGATGAAGAAGTTC	679	57.53
AATATTCTCACCTGTACAATGTCCTG	238	56.55
CGAAGCAGATGGCAACAGGA	479	60.88
GCTGGAGCAACTGGCTGAGG	61	61.96
TGAGAGTTCTGTGATCAATGGACTTC	684	59.65
TGAGAGTTCTGTGATCAATGGACTTC	747	59.65
GAGAAGAAGCCGAGTGCGAA	410	59.29
GAGAAGAAGCCGAGTGCGAA	288	59.29
GAGAAGAAGCCGAGTGCGAA	264	59.29
GAGAAGAAGCCGAGTGCGAA	285	59.29
GTGTCAATATTCGGAGCTGTTG	60	56.03
ACGAGGAGGACGATGAGGAG	342	57.86
GAAGCCAGATGCGAAGGTTG	241	59.4
GGAGGAAGTTCAAGAGGAGCA	79	57.19
CATGATTAAGGACACGTGTGTGCTC	317	61.58
TTGGAGTCTATCGGAGAGGTTG	946	57.04
AAGCGTGCGACTACTGGACA	131	58.13
GGATGCCAGTCATGAACAATG	91	57.46
GCATCTCATAATAGAGCGGAACA	634	57.19
GGCTCTTGCTTCCTTCTTGC	536	57.88
GCTATGCGTGCCAACAATCAG	1138	60.23
GCTATGCGTGCCAACAATCAG	1138	60.23
GCTATGCGTGCCAACAATCAG	1299	60.23
GCTATGCGTGCCAACAATCAG	1138	60.23
CCAGGAGCCGAACATCATAACC	1012	61.47
CCAGGAGCCGAACATCATAACC	1012	61.47
CCTTATCACCGCTTCTCATCTG	11996	57.58
CCTTATCACCGCTTCTCATCTG	11816	57.58
CCTTATCACCGCTTCTCATCTG	12084	57.58
CCTTATCACCGCTTCTCATCTG	12012	57.58
ACCAGTTGTATGTCTGAGTGAGCTAGGT	80	60.75
GTGAACATTCCACCAATAGCCA	75	58.42
GTGAACATTCCACCAATAGCCA	75	58.42

CGGATGACAATGGAGACAAGA	980	57.18
GTAACAACGAAGCATCTGGAACG	89	59.65
CCAGGAGATTGCGGTCAGAA	280	59.77
CATCACTGTTGGTCGCTGACG	82	61.25
TCTTCACGCAGCACACATTG	472	58.01
CATCACTGTTGGTCGCTGACG	135	61.25
CAGTCGATCGTCGCTGCTTG	169	61.62
TCACAAGTCGGAAGGAATCG	95	57.33
TTCTACTGCTCTGTTCAATGCTCTCC	585	61.13
CGAGAACAGAGACGCTACGC	1740	57.47
TGCCGATGGATTCAAGTTCAGT	123	59.13
AACTACTGCCACCACGGACCA	362	61.3
GAATGGAACAATTGAAGTGCGATG	331	61.46
TGGAGGATATGGCTACAACGAC	106	57.69
CCGCATAGTTCCAAGTCTCATCG	301	61.73
GAGAATTGTGGAAGCTGCTGCT	443	59.62
TCCTGGTTGGCAAGAGAGAC	788	56.46
TCCTGGTTGGCAAGAGAGAC	788	56.46
TCATCAATGTGTACGCCTGTCTG	799	60.52
TCATCAATGTGTACGCCTGTCTG	838	60.52
TCATCAATGTGTACGCCTGTCTG	285	60.52
CGTCTTCTTCTGCGTCGTCT	1065	56.88
CGTCTTCTTCTGCGTCGTCT	645	56.88
CGTCTTCTTCTGCGTCGTCT	843	56.88
CGTCTTCTTCTGCGTCGTCT	411	56.88
CGTCTTCTTCTGCGTCGTCT	1029	56.88
TTGAGGATGCGATTGCACTT	369	56.95
TATTGCAGTTACAGTATGATGTACCATC	38	56.66
CGCCATATTCCAGATCATTCTTAG	1622	57.89
CGCCATATTCCAGATCATTCTTAG	1453	57.89
ACCGTTCGTCATCCTTCTCAT	330	57.19
ACCGTTCGTCATCCTTCTCAT	330	57.19
ACCGTTCGTCATCCTTCTCAT	330	57.19
ACCGTTCGTCATCCTTCTCAT	330	57.19
GCTAAGGAACTCGTGCCAGGA	94	60.33
TCACTTGTTGCCAGAATCGG	1227	58.3
GGATAAGTAGGACCGCCGAT	87	56.75
TTGGTCAACAATCTTCTGAGTCA	236	56.08
CTCAGTGTTGGCTGTGTGCTC	77	58.11
CGTGGCGTGATTGAATGAGC	257	61.15
GTGTGTGTGTGTGTGATATGGCA	85	58.84
GGTCCAGCGTAGCCTTGAAC	814	58.4
GGTCCGCTGTCACACGAAGA	669	60.82
TCTGACACCAGGAGCATTAAAGTATCAAC	339	61.69

TGAACAACTGGAGCGTGAGC	476	58.6
TGAACAACTGGAGCGTGAGC	476	58.6
GATCCACATCAGATTCAAGCAA	1102	56.35
TTCAGACGAACTGTTGTGGAGA	121	57.04
ACAGCGTCTTGTTCCATATTCAGA	321	58.81
CAATCAAGGAGTCGTCAGAGTCAT	139	58.4
ATGATGAACGCAAGCACCAA	325	58.72
ATGATGAACGCAAGCACCAA	174	58.72
ATGATGAACGCAAGCACCAA	244	58.72
ATGATGAACGCAAGCACCAA	325	58.72
ATGATGAACGCAAGCACCAA	174	58.72
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ATGATGAACGCAAGCACCAA	244	58.72
GAGAAGTTAGAAGTGGAGGCGGAT	471	60.07
CGCATGTATGAACTTCCTACGG	78	58.27
GAGAAGTTAGAAGTGGAGGCGGAT	489	60.07
CAATCAAGGAGTCGTCAGAGTCAT	97	58.4
CGGAAGCACTTGGTAACCTTATCG	136	61.82
ATGATGAACGCAAGCACCAA	350	58.72
ACAGGTGGCAGGAACATCGT	106	59.02
CAATCAAGGAGTCGTCAGAGTCAT	493	58.4
TTGATCCACAACAATACGATGC	1395	57.11
TTGATCCACAACAATACGATGC	1325	57.11
CGGACAATCTTCTGAACACCA	1319	57.25

TTGCTTGCGAACTTATGAACG	1543	57.73
AAGACTTGGAGTTGTCAGTGGAA	372	56.61
AAGACTTGGAGTTGTCAGTGGAA	372	56.61
TCTTCTGGAGTTGCCGAGGA	598	59.5
CATACGAGCCGCCAGTTGTG	1052	61.18
CATACGAGCCGCCAGTTGTG	1203	61.18
CTCACACACGACAACGCCTT	1317	58.37
TCTGTTCTAGATATTCGACTCCTT	44	56.64
CTGCCAGCCTTGTGCCTTCT	55	61.41
AACCACTTGGAAACGGTTCTCAA	54	59.48
GTCAGAGAATGCCGCAAGACA	38	59.97
TTGTTGGAATGATGGAAGACG	999	57.13
AATGTTGAGGATACCGATGAGAA	1151	56.39
CAACGCTAGTTCAACAGATGCTTG	199	59.94
GGTGGAATTATCAGTGACAAGGC	988	58.5
AGATAATCAATCAGTCTAGATGTTGTGC	36	57.27
ACTTGTAGCACATCTCCTCTTCCA	155	58.09
CACACCATAAGACCGCCGAT	441	59.4
TAGTAACAATGCCACGACAAGC	490	56.66
GTAATGACTTAATCCACTGATGGCTAT	65	57.16
TGAGCACATTGAGCGAAGGC	40	61.03
GAACGCCAAGTCTAAGCAAGC	304	57.9
CAGTAACAATGGCACAATGACC	303	56.64
AACCAGTAACAATGACACCACAACC	313	59.93
TTCACATCACCGATCAAGGA	537	56
CAGTTGGATGCCGTGTGACC	180	60.94
CAGTTGGATGCCGTGTGACC	180	60.94
TCTCTGCCGCTCTCAACTGC	57	60.39
TCAAGGATTCGGAGTTCGCA	164	60.29
GATTCGGAGTTCGCACTGGAC	164	60.59
CAACATTGGAGCATTCTTCTTG	294	56.16
TTCTTGCCACCTGGATCAGC	20	59.77
GCATCAGAATGGAATTGCACAT	658	58.52
GCATCAGAATGGAATTGCACAT	663	58.52
GCATCAGAATGGAATTGCACAT	651	58.52
ATATCGACTGGAGAGTTGTGCTC	72	56.24
CGTTCGCAGTCAGCAGGATT	74	59.98
CACAAGACTGGATTGGATGCTA	1067	56.46
AATGTGAGAACTCTTCACGATTGTC	100	57.52
CACAAGACTGGATTGGATGCTA	865	56.46
CACAAGACTGGATTGGATGCTA	881	56.46
CACAAGACTGGATTGGATGCTA	1033	56.46
CACAAGACTGGATTGGATGCTA	1049	56.46
TGGAAGATGTGCTCAACAGAAC	578	56.52

GAGAATTGATGGAAGTGGATACG	39	56.39
GCGTGATAGAAGCACTCTTGTG	195	56.43
AATTCCATCATCCGGCAACTTC	64	60.95
AATATCGGAGATGTCATGGCA	662	56.58
GAGATGGAAGACATAGACGACGAT	30	57.43
GCAGTGGATTCTAGGAACCAATCTGTA	462	61.66
TTCGCTATGGCAATGTCTGG	105	58.33
ATTCGCTGGTGGTTATATGTTTCG	2009	58.92
CGTGAGTGGCGAGTAATGGA	1391	58.32
CGAACCTTCTCAATGATATGAACAAC	816	58.98
CCAGAACTCCTTATAATGCAACAGC	192	59.23
TCACATCTATCAATGATTGTTGCTT	362	56.58
GAATCCGACAAGTTCTTCCTCTT	356	56.74
GAATCCGACAAGTTCTTCCTCTT	360	56.74
CCACGAGCCATGTGAACCAG	237	61.07
GAGATTGGTGTGATGAGATATGCTA	586	56.16
AGAACGACGAGAACGCTGAT	515	56.2
GGTGTGCGCCGTCAACAGTCT	189	59.73
CGAGGCACGTTGTTCAAGCA	270	61.88
GTACCACGTTGAGCTGAATGACG	102	60.53
CGAGGCACGTTGTTCAAGCA	312	61.88
AACTGCCAGTGATGTTATCATTGTTCT	326	60.14
AACTGCCAGTGATGTTATCATTGTTCT	221	60.14
GTTAGGCTGCTGTTGCAGTTGAG	257	60.06
ATTGGAGGCACATTCCTTGTTG	966	59.81
GACAGAAGAACGTGGCGGATG	287	61.52
AACTTATCAAGTTCTTACGGTGGAA	170	56.41
GGATTATTCGTTGATGCTGGTAG	401	56.52
GGATTATTCGTTGATGCTGGTAG	88	56.52
CGACGGCTTCAACTCTGACA	4036	58.6
AGTGCCTCAATGATACGCCGAT	2390	61.62
AGTGCCTCAATGATACGCCGAT	2390	61.62
TTGTGCTCTCTTCTGGCTCTCG	86	60.76
CGTGAGCAGATGATAACTTCCA	763	56.61
CGTGAGCAGATGATAACTTCCA	763	56.61
CGAGGAAGAGGATATGCGAA	1592	56.6
TGGAGTCAATACATCCATCACATG	887	58.31
AGAGGACTGGACTGGTTGCTTC	822	58.47
TGTAGGCTCGTATGTTAATTACAGAGAG	1416	57.52
ATGTCTTCTCAATATCGGAGTACAACC	1020	58.93
ATCTCTTCTCATTATAGGAGTACAGCCA	1012	58.16
TTGGTGGATATCAGCATAAGCTAA	1075	56.77
TTGGCTGGAGGAGATATTGAAC	845	56.93
AGTGACGATAACGAGAACATTGC	950	57.08

GCTATTGGACAGGAAGATGATGC	1613	58.72
GTTGAGCAAGCCGTTGAGTG	87	58.1
AGTGACGATAACGAGAACATTGC	130	57.08
AATGCAGATCTGAGAGACACAGATG	88	58.55
TTCCTGCCAACAGCAGAAGC	97	60.09
GGCTGCTCATGGATAAGAACA	51	56.52
TACTTGTAAGGTGGTAGTGGACGA	67	56.61
TTGATGCTCCATTACTCTTCCA	1750	56.09
CACGGTTGATGCCTGGATGA	100	61.43
GAACCAGGTGGAATACGACGA	92	58.5
CATTGGTTGGAGGACACGAA	270	57.99
ACATTGGTGATCGAGCAGGA	287	57.68
TGGTATAGCGTTATTCGCCAAT	588	57.4
AGAACTTCTTGGAAGGCACTGTG	469	58.57
CTTCACGGCTCTATGGACGCT	77	60.35
AATAGCTGACCGCCACAGTGG	94	61
TTCCACAACCTCCACCTCAA	982	57.55
AACGAAGCAATGGATGGTATG	432	56.22
TCTGAGAGCTTCAAGACCAGTCC	516	58.73
CGACTACACTGTTCCAACCAAGC	139	59.68
GCCACATCGAATGCTCAAGA	82	58.4
AAGTTCGTTAAGGCCAGAACTG	82	56.41
GGTCCAGTTCAAGCCGAGGT	768	60.07
GGTCCAGTTCAAGCCGAGGT	768	60.07
AAGATACTGCGGCGTGTGAT	1542	56.92
ATGAACTTCCTCCACTTCCTCGT	23	59.13
ATCCAGTTCCAGTTCCAATGC	134	57.58
GCCAAGACGACACCGAATACC	23	60.32
CCAAGCACAAGTTCACAGTCAC	1850	56.98
CAGTGATTGCGGTGATTATAGTCG	752	59.53
TGGCAACCACTTATTATGGAGAC	209	56.84
CAGCAACGGAGAGGACAACG	100	60.39
GTCGTCCTCTCCGCCTTAC	495	60.74
GTGCTTACCTACCGTCTGTTGG	806	57.43
GATCCTGCAGAGAGACCGAA	705	56.56
GATCCTTAGCGCCTACCGTAA	110	57.2
CGACTCTCTATTCACTATTCCACGA	150	61.69
TTATGTTGAGAGTGTATTCCGATGA	1545	56.58
TGAATTAGAATAGTTACCGAGAAGAAGC	85	57.95
CAATACTCGTCCTTCAACTGTGG	37	57.42
GGCTTGTGAGCAGAATAAGGTT	108	56.35
TGAATTAGAATAGTTACCGAGAAGAAGC	64	57.95
CAATACTCGTCCTTCAACTGTGG	360	57.42
CCTACATCACCAACGTGGCA	98	59

CAATACTCGTCCTTCAACTGTGG	37	57.42
TCCAGAACGACTCAGCTTCCATT	37	61.05
GTTCCATCAGTTGTCTACACTCATCC	242	58.97
TCTGAGAATGCGAACACTCCAAT	1032	59.72
ATCCAACACCAGCCATCCAA	2046	59.75
CTGGTGGAGTGTCTGCTGGA	437	58.39
CACTTCTACAATCGTCGTCGCA	2652	59.89
CACTTCTACAATCGTCGTCGCA	2193	59.89
ATCCAACACCAGCCATCCAA	2046	59.75
CACTTCTACAATCGTCGTCGCA	2469	59.89
GCCAAGGACCAACAACCAAG	118	59.02
GCCAAGGACCAACAACCAAG	328	59.02
TGGTCAGCAAGGAGATTCAGC	464	59.01
AAGGAACCGAGACACAACCTCA	202	57.44
TTCAGGAACCGAGACACAACCTC	55	57.89
TACACAGATACGACGCAAGTCAT	327	56.14
CGTCATCCTCTTCTACAACAACCTC	1606	57.25
CGTCATCCTCTTCTACAACAACCTC	1402	57.25
GGAACAGTACGATGAGAATGACG	82	57.36
GGCAGCAATCCGTCACCTCA	1908	60.75
AAGTGAGCAGCAGTATGATAAGAAGC	389	58.43
GGCAGCAATCCGTCACCTCA	2040	60.75
TTGAGAATGGATTGTAACAATGTGA	988	57.25
TTGAGAATGGATTGTAACAATGTGA	1045	57.25
TACGGCGAGCTCTTCATCTG	94	57.81
TACGGCGAGCTCTTCATCTG	151	57.81
AATTGATTACAGTGGTGACGCA	921	56.79
AACTTCACAATTCACCGTCTTACG	1154	58.3
CCGATGCTTCTTCATCTACA	223	56.53
GATGGATAGGAGCGTGGCAA	697	59.62
GCTGCTCAGGTTCCAGTCAG	197	57.19
TTCGTGCTACCAATCTATGTCTATG	550	56.36
TCACTTGAACCGTTGATTGCG	891	60.62
TCTACAAGTGAGATGCTCCGAA	2465	56.34
TCTACAAGTGAGATGCTCCGAA	2579	56.34
TGCTCAACCAACCACTCATCA	191	58.71
GTTGTCGTTGATTGTGGATAATGATC	454	59.51
CCTGCTCATGCTCATCCTCGTA	99	61.22
CGATGCGATACTTGACGGAA	333	58.33
CGATGCGATACTTGACGGAA	333	58.33
CGATGCGATACTTGACGGAA	333	58.33
AGGAATGTTATGATAGGAGGCGAGA	694	60.25
AGGAATGTTATGATAGGAGGCGAGA	568	60.25
CCGTGCTCACATCTACATTATATCAAG	170	59.06

AACGAGGAGGACTATGAGAGCA	1768	56.8
AACGAGGAGGACTATGAGAGCA	1385	56.8
TGAGCAGTCGTCTGAATCCA	66	56.45
TACTGACGATTCTGATTGCTTATCTGTT	288	59.61
TTGTTGAGCACGAACATGAGA	1258	56.5
GGTGATCCTAGAATGAACAGTGAGA	1396	57.47
TTCTATCAATAATGAACAACGAGTGG	624	57.47
TTCTATCAATAATGAACAACGAGTGG	650	57.47
TTCTATCAATAATGAACAACGAGTGG	624	57.47
GCCAAGCAAGGATGATACAAG	144	56.1
GCCAAGCAAGGATGATACAAG	166	56.1
AAGAAGCCAATTCAACAACAATCC	236	59.39
TAGTGGTGCAGGAGGTGGAA	2522	57.74
TAGTGGTGCAGGAGGTGGAA	631	57.74
TAGTGGTGCAGGAGGTGGAA	566	57.74
GGAACGAGGAGGAAGTGGAC	1934	57.21
GGAACGAGGAGGAAGTGGAC	1934	57.21
AACGCATAAGCAATAATGAGACAA	175	56.82
AAGCAGAGTATGGAGGAGAAGGAG	548	58.25
CTCCAATGTTCCGGTGTCGCA	1571	61.59
CTCCAATGTTCCGGTGTCGCA	1565	61.59
CTCCAATGTTCCGGTGTCGCA	1571	61.59
GTCTATGTTCCGCCACACTTG	207	56.82
CAGGAGAGTAGTGAGGATGATGATG	467	57.92
GGATTCGATGAGTCGATGCA	1977	58.19
AACAAGTCGTCTCAAGCTCAGTG	1667	57.42
ATGAATAGAGCAACGAGACTGAGA	232	56.12
CAGCAGATTCCGACTTCAACC	400	58.38
CAGCAGATTCCGACTTCAACC	520	58.38
AAGATGGACCATCGCTTCAG	85	56.39
AAGATGGACCATCGCTTCAG	149	56.39
AAGATGGACCATCGCTTCAG	274	56.39
GCGACAGTGAACAACGAACA	176	56.89
GCGACAGTGAACAACGAACA	57	56.89
CGGAGTTAAGGACAATCACACA	1102	56.37
CGGAGTTAAGGACAATCACACA	1165	56.37
CGGCTCACGAGTATCACATTC	114	56.91
AGAATACCGTATCCTGTTACCGATGA	37	59.97
CTCAGAAGCCACCACCAATC	803	56.75
TTAAGAAGGAATTGCTCACTCGT	122	56.09
GTCGTAAGTGAAGAAGGCTTATGATG	944	57.31
TTCGGTCCGTCTTGCAATGTC	308	61.87
TGTTGTAGGAATTGGCGCAT	610	57.71
TCCGTTGTGAGAATCCGAATG	3646	59.51

TGTTGTAGGAATTGGCGCAT	610	57.71
TTGATTGAACGCTGTGAAGGA	41	57.95
AAGAGGAAGACAATTCGACAGC	59	56.35
GGATGAGAGGCGTGATCTGGA	259	61.09
CATTGCATATTACAGTCGAGATTCTG	69	58
GCCTACCAGAGTTGTCGCTATACAG	1288	59.39
CCATACCATTGATTACGGTGACA	85	58.23
AGCATACCAGCAATAGGCGAGA	822	59.84
ACTACCTGTCGTGTGCTGTGC	622	57.49
TGTTTCAGGCGTTCTATTTCGG	1030	57.44
GATCAGTGGCTTCGGAGGAA	197	58.81
GTGGTACTGTACTTCTCTGCAAGCT	112	57.12
GAAGCCTGACTCTAAGCGGACA	299	59.62
CAACACAACCAACACCACTACTACT	589	56.1
AATACTTCTCACC GCCGCAA	567	59.3
CAACACAACCAACACCACTACTACT	514	56.1
CAACACAACCAACACCACTACTACT	996	56.1
CAACACAACCAACACCACTACTACT	471	56.1
AATACTTCTCACC GCCGCAA	567	59.3
GCAGCATCATCACCAGCAGA	121	59.52
GCAGCATCATCACCAGCAGA	232	59.52
GCAGCATCATCACCAGCAGA	525	59.52
GCAGCATCATCACCAGCAGA	232	59.52
GCAGCATCATCACCAGCAGA	525	59.52
GCAGCATCATCACCAGCAGA	176	59.52
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TTACGGATGCCATTGGAACA	65	58.42
TTCCACTCAATCCACAAGCA	91	56.25
GCGAAGAGACAGTGATGAAGACC	1227	58.99
GCGAAGAGACAGTGATGAAGACC	1218	58.99
GCGAAGAGACAGTGATGAAGACC	1227	58.99
GCGAAGAGACAGTGATGAAGACC	1218	58.99
TTGTGACGATAACGAGAAGAACATCA	1265	60.8
TTGTGACGATAACGAGAAGAACATCA	1208	60.8
TTGTGACGATAACGAGAAGAACATCA	1208	60.8
TTCATCCACTGCTCCACTCA	61	56.28
CAATGAGTATGGATTGTTGTATGGTT	691	57.12
CAATGAGTATGGATTGTTGTATGGTT	439	57.12
ATCACTCTACTGTCTGTATTCAATCCAC	362	57.12
TGGCAGGAAGGAATCAAGAG	273	56.52
AAGTGCCGTTCTGGTCTCCT	573	57.45
CTCTCATTATGACTGACCTGGTATTGG	148	60.1
GACTCAGCTCCTAGCCATCTACAAGC	649	61.85
GACTCAGCTCCTAGCCATCTACAAGC	418	61.85

GGTGTGGAATGAAGACGAGAGT	1891	56.84
GGTGTGGAATGAAGACGAGAGT	1745	56.84
GGATACAGACACGATGAGCGA	288	57.37
CGGTGTGCTATGTCTGACAGC	62	57.99
TATTATGAAGCAGTGGATGGTGAT	206	56.4
CCTGATATGGATGAATCTATGAAGC	1552	56.97
CCTGATATGGATGAATCTATGAAGC	1375	56.97
CCTGATATGGATGAATCTATGAAGC	1360	56.97
AATGGTGTTCATCACAGCCAAT	573	56.44
AATGGTGTTCATCACAGCCAAT	396	56.44
TGCTGGATCATAGTGTGATCA	311	57.78
GGACCACCACTGTCACCTCTA	41	56.09
AACAGTGACGAAGGAGGCAACC	175	61.35
AGAATACGAGGAGGCAGTAATGTC	274	56.77
GACGCTCTCACGCCATTCTC	290	59.54
GACCTAGATGAGGCTCGCAA	181	56.71
GACCTAGATGAGGCTCGCAA	181	56.71
GACCTAGATGAGGCTCGCAA	181	56.71
CCTACTAATAATGACGGCTGTTTCG	271	58
AACACTGCCAACTGAGATGCT	763	56.13
GGAGGAATGGCTCACCGATG	88	61.32
GGAGGAATGGCTCACCGATG	88	61.32
GGAGGAATGGCTCACCGATG	88	61.32
CGCTGATTATTGCTGTTATGTTGG	100	59.54
GTTCACTCGTCAATGCTTCCA	102	57.4
TGCTATAACAATATTCAATGGTTCG	412	56.26
TGTCCGCTCCAACCTCTAGAATTAGC	925	60.97
CATACGGACCATATGCCAGAC	257	56.52
ACCACCTATGTCCTTGTTGATGA	839	57.08
ACCACCTATGTCCTTGTTGATGA	935	57.08
GCCAGCAACAACCACTCTTC	299	56.97
GCCAGCAACAACCACTCTTC	299	56.97
CGAGCGGTGGTCAGTGTGTT	865	60.72
GCACAACACCAATATGTCAGCA	212	58.16
AACTCGGTGCCAACGCAACT	65	61.55
AGTCTGAAGCTACAAGGAGAATGC	727	57.11
CCAGAAAGTTCAATGAGCGGACT	750	59.35
AGCCAATAATCTACACGACTACTACG	1087	56.24
CGATTGAAGTTGATATATCATGGTG	896	56.39
CGGTAGAGTTCGACTTATCTTGGTG	848	59.24
GCAGAACTTGACTCACGAGACTC	423	56.95
AAGAGAATCGCTAGAATGATGAAGA	1186	56.69
CATCAGTTCGCCAGCTTGCT	80	60.12
ACTTCCAGCCATCCGTCCT	240	58.2

ATCACAATCGTCACATCACATCA	181	57.39
ATCACAATCGTCACATCACATCA	181	57.39
TGGAGAGTGATCGATTCCGA	938	57.75
GAGAATCTTATTGCTCAGAAATGCGA	1042	59.84
GAGAATCTTATTGCTCAGAAATGCGA	926	59.84
GAGAATCTTATTGCTCAGAAATGCGA	1117	59.84
GAGAATCTTATTGCTCAGAAATGCGA	982	59.84
GGAAGGTGAAGCAGAAGGAGAA	114	58.58
CGTTGAAGGATGCCGATAAGG	107	60.39
CGTTGAAGGATGCCGATAAGG	204	60.39
ATTGTTGGCCTTCTCTCCTACACTT	845	59.57
CAAGCAGTTGCCAATTATGACAGC	226	61.72
CCGACGAAGACGAAGAGGAA	5319	59
CCAATAGACTCGTGAATAACACCA	781	56.91
AACGATTCCAGGAGATTAGAACCA	1157	59.02
CCGATGCCTACATTGCCTCTT	89	60.05
TGCTGCTCAGAACAAAGGAACT	188	56.42
TTGGAATCTCGGAAGCATCT	262	56.01
CTACTCCAGTCATTCCACCGA	1364	56.32
TGCTCTCTGCTCCGTCATCA	282	59.23
TGCTCTCTGCTCCGTCATCA	282	59.23
AATGCTGCGAGGAAGGACAC	709	58.88
GCGGTCATTGTTATCGGATT	2187	56.14
ACGAATACGCAGGTGCTGTT	784	56.98
ACGAATACGCAGGTGCTGTT	551	56.98
GAATGTCAATCGCAATCGGA	49	58.1
GAATGTCAATCGCAATCGGA	49	58.1
CGAATCCACAAGAAGTCAATCCA	732	59.93
CGAATCCACAAGAAGTCAATCCA	802	59.93
GATCGAAGAATTGGACGTGAA	625	56.34
GGATATGTTGGTGTGGATAAGG	994	56.11
GAACAGATTATTGAGGTGGAGATGA	1936	57.36
TCTGTTCGTATGGAGGATGATG	1384	56.24
TCTGTTCGTATGGAGGATGATG	1384	56.24
TCTGTTCGTATGGAGGATGATG	1390	56.24
TCTGTTCGTATGGAGGATGATG	1390	56.24
TCTGTTCGTATGGAGGATGATG	1390	56.24
TCTGTTCGTATGGAGGATGATG	1390	56.24
TCTGTTCGTATGGAGGATGATG	1384	56.24
TCTGTTCGTATGGAGGATGATG	1384	56.24
AGTCCTCTTGCTTGTTGTTCTCA	37	56.9
TCGGATGGAGGATGACAGTG	143	58.02
ACAGTGGAGAACAACCGCAT	207	56.69
AATCACACACTATCTCGTTACTCAA	90	57.11

CAGCATCGTACTCCTCGTCACTC	144	59.91
CACTGTGTGAATCCTGCAAGGC	71	61.55
CTCCACCTCCACCAACACCA	968	60.37
GAAGTACAACCTTGCTGAGCATTCTG	711	59.11
GAAGTACAACCTTGCTGAGCATTCTG	666	59.11
GCTCTTGTGGTGGACAATGGA	85	59.54
TCTTGTGGTGGACAATGGATC	85	56.86
GCTCTTGTGGTGGACAATGGA	85	59.54
TCTTGTGGTGGACAATGGATC	58	56.86
AAGTGCGATTAGGATGAACGG	120	57.82
TACACGAGTTCAAGTCAATCACAA	1014	56.17
TACACGAGTTCAAGTCAATCACAA	1028	56.17
TACACGAGTTCAAGTCAATCACAA	942	56.17
GGAGATTGTGTCGGCCAAGG	217	61.35
GGAACCTGTCAATGTAGATGCG	1158	58.19
TTCTTCTCTTCGTTGGTCTCCTC	46	57.76
TTCTTCTCTTCGTTGGTCTCCTC	30	57.76
CATACAGCAGCGTCTACTTCTCA	681	56.18
TTCCTGATTCTTCTTGGTACTCG	117	57.67
GGTCGTGGTTGGTATGCTATTCAG	356	60.56
GGTCGTGGTTGGTATGCTATTCAG	356	60.56
TGAAGATGTCTACGAGAGAGCAAT	1100	56.12
TGAAGATGTCTACGAGAGAGCAAT	1100	56.12
TCCAATAGCAACGAGAAGCAGT	104	57.77
ATTCTAATTATTCTTGGTGATCATGGA	1353	57.31
CCTGGAGAGATGAACGATTACG	245	57.44
TCACTGAACTACCTCAAGCCATTACTG	508	60.81
GGTGAGCAGCACTCGTCCTG	162	60.57
GACGATGATGGCGATGTTATGG	416	61.02
TTGGTGATTGAAGCATGATTCTGTT	41	60.66
CGAATATATAGTGAAGTTACGGACGA	401	56.83
ATCAACACACACATCAATGGACA	133	57.3
AAGAGCGATTCCGAGACGAA	358	58.61
CTGAGCCACCAACGATAGATG	1813	56.91
CTGAGCCACCAACGATAGATG	1809	56.91
CTGAGCCACCAACGATAGATG	847	56.91
CTGCTGATTCTATTGTTCTGCGT	32	57.36
GTTGTCAACGATGGTCGGCTT	213	60.86
ATCCTTCATCCTACAATACAGACCA	95	56.86
GTTGTCAACGATGGTCGGCTT	69	60.86
GTTGTCAACGATGGTCGGCTT	201	60.86
GTTGTCAACGATGGTCGGCTT	193	60.86
GTTGTCAACGATGGTCGGCTT	183	60.86
TCGACATGCAACCAAGCTAA	652	56.57

TCGACATGCAACCAAGCTAA	652	56.57
TCGACATGCAACCAAGCTAA	652	56.57
TCGACATGCAACCAAGCTAA	652	56.57
GTTACGAATACGAATACCTACAATGG	619	56.24
GTTACGAATACGAATACCTACAATGG	587	56.24
TGAAGTTGGCTCGTCGGTTG	256	60.77
AAGGCATTGAAGCGTTGGTA	135	56.99
CCACATTCTCGTGAAGTTGTGA	187	57.32
CCACATTCTCGTGAAGTTGTGA	74	57.32
GATAGGATTCTAGTGGATCATCAGTACA	130	57.1
GTTGACCTAGAGCTTCACAAGATTACAG	193	59.03
GTTGACCTAGAGCTTCACAAGATTACAG	147	59.03
AAGTGAAGAGGAATACGCCGAT	333	57.92
GCAAGAAGCCATGTCATCGG	90	60.18
GCAAGAAGCCATGTCATCGG	90	60.18
AATTGTTAGGACGGTTCGGAA	328	57.23
AAGTGGTTCGAATGCAGTCTTC	791	57.09
AAGTGGTTCGAATGCAGTCTTC	881	57.09
AATACGTCAGAACTCTGTGTGGAA	111	56.62
CATTCAGAGCTTCACGTTCTG	92	56.69
AGATTCTCATGCATTCAACTTCC	378	56.12
CTCTCCAGAGATTCCAGATCTTCA	314	57.72
AATTGCCTACCTATTCTTCAATGGTT	152	58.53
TACTAACCATGTGGAACGAGACTGT	29	57.84
TACTAACCATGTGGAACGAGACTGT	88	57.84
TTGATAAGAGTGAGCTGACCAATG	315	57.21
TTGATAAGAGTGAGCTGACCAATG	315	57.21
TCAATCAGAGACAACAGAATGGTG	1193	57.84
CGTGAATCTGACGAAGAGCA	804	56.15
CGTGAATCTGACGAAGAGCA	798	56.15
CGTGAATCTGACGAAGAGCA	644	56.15
CGTGAATCTGACGAAGAGCA	754	56.15
CGTGAATCTGACGAAGAGCA	750	56.15
CGTGAATCTGACGAAGAGCA	747	56.15
TCTGCTAATGGAATCGGAAGG	318	57.88
CGCACTCTTACACGATCCACA	424	58.39
CCTACTCAATCGGTGGCTGGT	70	59.96
TATGGTGAAGATGTGTGGTTGC	120	57.08
ACCAGCAACGACAATAACAACA	51	56.85
GAGAGGAAGGAAGCCACGAA	1486	58.05
GAGAGGAAGGAAGCCACGAA	1554	58.05
CCAATGTAACGCAATCGGAA	373	58.09
AAGGCTGGCAATGGCTGATG	469	61.98
AAGGCTGGCAATGGCTGATG	361	61.98

TGGAGAACATCTTCAATCGCT	108	56.09
GCATGTCAGTCTGAAGGCTAGAAG	861	58.36
AGATTCGGATACTCTTCATGTTGC	138	57.51
AGAGCACTAGGATGAGCACAGC	74	57.46
TCAGCAACCTCGAGAGAGAGA	719	56.52
CAATATATCGAAGGAAGGTTAGGAA	126	56
CAATATATCGAAGGAAGGTTAGGAA	138	56
GCAGCAGCATTATCAGACTCAA	474	56.9
GGTGTGAGTTGGACGAGTTGA	21	57.21
CTCCAAGCAGACAGCCGATT	249	59.02
TCCGACAACGATTCAGATGC	139	58.24
TCCGACAACGATTCAGATGC	130	58.24
ATATCTTCACTTATATGGCAACATTAGC	509	56.55
TGACTTATGCTCAAGACTGTGCTC	571	57.46
CCAGAAGAAGCATTCAAGGC	182	56.24
GTTGATGCAATTGTAAGAAGAGTTG	621	56.02
CACAACAACCTCGCAAGAACTATG	139	56.33
CACAACAACCTCGCAAGAACTATG	139	56.33
GCCGCTGATATTCCACCATA	549	57.14
GCCGCTGATATTCCACCATA	361	57.14
GCCGCTGATATTCCACCATA	416	57.14
GAACATCAGAAGCGACGGAA	525	57.48
TCTTGATGAGAGATGTGAAGAGTGA	135	56.84
CATCTCGTTGTCGTGACTCGT	428	57.4
GATGAGGTTGTGAATGATGCG	234	57.62
TTAGCAATACAATTCTGAACGCTGT	2002	58.16
CGAAGTGAGAACCTGACAAGACC	654	58.89
TGTGGCTCAGTTGTCAGAATGG	1002	59.73
TGTGGCTCAGTTGTCAGAATGG	1002	59.73
TGTGGCTCAGTTGTCAGAATGG	987	59.73
TGTGGCTCAGTTGTCAGAATGG	987	59.73
GAGGAGAGTGATGCTGTTGAGAA	956	57.28
GAGGAGAGTGATGCTGTTGAGAA	1063	57.28
GAGGAGAGTGATGCTGTTGAGAA	908	57.28
ACGAATGATTGAGGATCAGGAGTC	697	59.45
AACAGCAACATGAGCGGTGT	110	57.82
CTCATTATTGTCTACGCGATTCTCAC	395	59.24
CCAGTGCCACAAGAACAATACAAC	1069	59.44
TTGGTTGGCAGAGAGGAAGT	1010	56.02
TCCGAGTTAGTATTGATGACTATGAAG	618	56.15
ATCACTATTATCCGCCACAAGC	250	56.93
ATCACTATTATCCGCCACAAGC	250	56.93
ATCACTATTATCCGCCACAAGC	192	56.93
CAGCAAGACTGAGAAGCAAGC	2106	56.72

CAGCAAGACTGAGAAGCAAGC	1667	56.72
TAAGCAACAACAGATTCAAGATGGTG	585	60.35
TAAGCAACAACAGATTCAAGATGGTG	769	60.35
TAAGCAACAACAGATTCAAGATGGTG	585	60.35
TAAGCAACAACAGATTCAAGATGGTG	769	60.35
TAAGCAACAACAGATTCAAGATGGTG	644	60.35
TAAGCAACAACAGATTCAAGATGGT	584	57.96
TAAGCAACAACAGATTCAAGATGGT	768	57.96
GGTCACTTGTTATTAGATGGAGCA	2821	56.21
TTACCGCACGCACTACTCGA	151	59.08
AGAGAGCCAGCCGTTGAGAA	61	58.76
GGCTTGGAAGTTGAGAGTGGA	211	57.97
ATCAAGTCGGCACCAACACC	60	59.41
GATGGACTCGCCTTCAATGC	699	59.22
AACCTTGAGATGAGATGCCACA	285	58.25
CTTCCATGGCTTGCCTCAAG	75	59.4
GCTTGAATGTATCTCGTAGGTGTTG	634	57.98
GCCGTTTCATCGTGGAGAGTT	209	58.74
GCCGTTTCATCGTGGAGAGTT	209	58.74
GCCGTTTCATCGTGGAGAGTT	146	58.74
GCCGTTTCATCGTGGAGAGTT	146	58.74
AATCGAAGCGGCAGAAGAAG	896	58.28
GCAGAGCAACAACAACAATCG	27	58.03
CTAGCTCTTCCAGGAATCACTCA	114	56.52
GCAGAGCAACAACAACAATCG	102	58.03
GGATGGTGTTGGAAGTATTGATG	1564	56.97
GGATGGTGTTGGAAGTATTGATG	1582	56.97
GAGTTGGCGGCAGAGTTGAATC	369	61.92
GAGACGACGAATGGCTTGAG	78	57.07
CGGTCAACCACCACATACCA	2099	58.7
ATTGTTGATGTTAAGGAGAGAATTAGTG	214	56.55
CGGTCAACCACCACATACCA	2099	58.7
CTGTGTACTGGAGCTATTATGGAGGA	555	58.8
ATCCGAGCACTCCTAGAGACAA	881	56.8
CAACTGTCACCGCTCACTACG	54	58.04
CGTCTTCATTAGCGAGCACTG	1144	57.42
CCAACAACATCAGCCAAGAGG	191	59.17
GATTCTGCTCTTCGGAAGTCTC	221	56.02
AGAGCCAGCTAGAGCCTTGC	571	57.67
GCAGGTTTCATCAGTATATGGAATG	745	56.4
GGAGCTCAAGATCAGATACCTTCTTC	525	58.98
TTCATTCAATGCTGTCTTCTGTC	234	59.15
AGGTGCTGTGGAAGAATGCG	312	59.84
GCACAACGAGCGTCTCACTT	51	57.7

TTATACTTCTGCCAATTGTCCACTT	42	57.13
TGCCGCTTAATATTGTTGATACAG	316	57.19
AATGCTCCGCTCACTAATGAATATGC	43	59.41
TACTTATGGTGTCAATCAGCCTGA	419	58.73
TTGGATTCAACGGTGGAGGT	1181	58.83
ATGACATTCTTATTGCAATTATCG	25	57.33
CGCAAGTTACGGCAACTGATC	503	59.36
TATCTTCTACATCTTCCTCAACCACTAC	437	56.58
AAGAGTGGATGAAGAGCTTGATG	600	56.37
GGCAATCCTCAAGTTCATCTCC	236	58.65
AACGGAGTTATCTCAACTTGGATG	57	57.43
ATTCTTCTAGCAATTCTCCTCATAAGC	984	57.96
GCGGATGGTGTGAAGCAAT	338	59.49
GCTTGCCAGAGGATGAGATG	271	57.01
TGCGTCTTGGCTGTTCTTATCATC	291	61.37
TGCGTCTTGGCTGTTCTTATCATC	74	61.37
TGGAGTCCTCGGATTACTCTTCA	42	58.83
GAACGAGCAGGCAAGCAAGG	988	61.89
TGCCAATGTGTTCTATTACTTCTCA	284	56.77
TTCATTCTGACACGGATTGC	315	57.4
AACTCGACAGACCATGGAGTCT	455	56.45
TCACCGCTGATCTTCACGAT	97	57.83
AATTCTTCGCTTATCACCGTGA	368	57.52
AGCAGTGTTAGCATTAGCCA	576	57.27
CCAGCTTCTCCAAGTGTGTGG	1375	59.34
CCAGCTTCTCCAAGTGTGTGG	1252	59.34
TTCCTAATGTATTGGCTCTCGTTG	687	58.38
TTCCTAATGTATTGGCTCTCGTTG	698	58.38
GCATCTGCATTGTCGGATTC	581	57.7
TCAATGATGTCAACAATTACTATGATGA	129	57.69
ACGTGGCATGTCATCTGTGG	253	58.97
AATGGAGGAAGAGATGCTAGAGTTGC	1146	61.26
AAGAAGGCATCCGTTGTCGTA	89	58.32
GAAGCCAGACTCACAGATTATGG	179	56.63
CGGTCAACTTCAACGAGCAT	352	57.41
CGGTCAACTTCAACGAGCAT	486	57.41
CGGTCAACTTCAACGAGCAT	327	57.41
TTCATAACTCAACTACGATATGTGATTC	688	56.01
CAACAAGACGAGAAGAAGTTGATG	63	56.87
ACCACCACTACTAACGCACCGA	708	60.41
ACCACCACTACTAACGCACCGA	760	60.41
ACCACCACTACTAACGCACCGA	342	60.41
CACCACTACTAACGCACCGATT	129	57.82
AAGAGACAAGAAGAGCAGGAGACA	1585	57.6

ATCCTTCTTCTACTTCTTCGGTCAG	125	57.44
GGCTATGCACGAACAATCGG	89	60.05
CTGTATTCTGGCGAAGAACCGA	90	60.19
AGGAGCCAAGTGAAGAGGCA	582	58.61
TGACAAGAAGGATGGAGAACTGA	1341	57.52
TGACAAGAAGGATGGAGAACTGA	1339	57.52
CAACCTCAACATCCGACTGC	906	57.74
GTGAAGGACGTGAAGGACCAC	140	58.09
CATTATGATGATGATGATAGCGGT	130	58
CATTATGATGATGATGATAGCGGT	130	58
AGAGGCTTCTTGCGTTCAGTT	500	56.99
CATCTACGACAACTACCGACGCA	369	61.01
GGATATGAATACCAGATGGATTATGAG	142	57.17
ATGCGAACTTCACAGTGGTCA	265	57.81
TAGAACTCGGCGAGCAACTAAC	795	57.48
GCTGTATCCTTGCTATTGTTGATGTT	1223	60.87
AATATGAACACTCTTGATATGGACTGC	810	57.85
CGTCCAGCAAGCGATGAACT	106	59.98
CGTCCAGCAAGCGATGAACT	327	59.98
TGATGAGATGTGGACGGATG	911	56.34
GCACTGGATGAATATGGTCAGAGG	813	60.66
AACACGACAGCTTCCAAGAGTT	2262	56.77
AAGAAGAGAAGAGCGAGAACAAGG	2258	58.52
AAGAAGAGAAGAGCGAGAACAAGG	2241	58.52
AAGCAGGCGACGATGGTGAT	1592	61.51
AAGCAGGCGACGATGGTGAT	1598	61.51
TGCTGAGGAGGAGGAGAAGA	288	56.27
TGCTGAGGAGGAGGAGAAGA	288	56.27
GTTTCGTCTCATTCCGCACTG	159	57.89
TTAGAGAGCACAAGTGAGCTAGACGA	48	59.85
TTCTGTCTCGTGCAATAATCACC	81	57.87
CCAGACCACGATAACGCCAA	222	60.46
CCAGACCACGATAACGCCAA	358	60.46
TGCCAATCATCACCACAACACTAC	23	57.08
CATCCTGAACTTCCTCAACATCA	224	57.78
TGCCAATCATCACCACAACACTAC	25	57.08
CATCCTGAACTTCCTCAACATCA	247	57.78
TTGTGTGCTTGGCTTCATTGC	941	60.76
TTCCGTCGAACAGCAAGTGT	678	57.95
TGGTGAGCAGTATGACAACAAGG	1177	58.76
GAGTGTCTCGCGGCTGTTCA	67	61.1
TTGGAAGACGAACCGAGGAG	1069	58.85
TTGGAAGACGAACCGAGGAG	1069	58.85
TTGGAAGACGAACCGAGGAG	1069	58.85

AGGAGGAATCATTGGCTCTGGA	1492	60.87
GAATCTTCAGACACAACCTTAGATCA	351	56.8
TTCCAACCTTATCGTCAACTATGAC	116	57.39
AAGTCGATGCAACCAACACG	2658	58.22
AAGTCGATGCAACCAACACG	2658	58.22
ATGACTATCATTACAACATTGTTACC	27	56.4
GCTTCAATTGGTGTCTCAAGTGG	2351	60.81
GCTTCAATTGGTGTCTCAAGTGG	2295	60.81
CGATTCAAGTCGAATGGCAGT	1710	57.35
CGATTCAAGTCGAATGGCAGT	66	57.35
GATGCTCAAGATGCTCTTCTGG	262	57.76
CATCAGAGACAAGGATTGGCAT	507	57.74
TTGTTCTTCTCTGCTCATATAGCGGAT	310	61.52
TGCCTTGACATTCTCCGTTT	318	57.32
TCAAGATTCCATGAATTACCTGAA	448	56.49
TCAAGATTCCATGAATTACCTGAA	485	56.49
CAGATGGAAGATTTCGAGCAGA	56	56.69
ATATTATTATTGGACATGTGTTCTGCT	422	58.39
GCCACCAGCCTACGACAAGA	987	59.84
TTCGAGTTGATGAACCGCTT	117	57.02
TTCTTAGCACTGTCCGAATGG	40	56.59
GCTGGAAGGAAGTAATGAGTTGA	3313	56.34
GCTGGAAGGAAGTAATGAGTTGA	3244	56.34
GCTGGAAGGAAGTAATGAGTTGA	3229	56.34
ATTGGAATTCAACAGAGAAGGCA	348	58.74
CATGTCCTTCCAGCTAACGC	34	57.05
AACAGGAAGATCAGAGACTTGCTT	223	56.59
TGTGTCACAAGTCCGCCTCT	64	57.88
TCTGTGTCTGTCTCTGACTCGGA	81	58.68
CTCTGCCGCCTATCGCTCAT	39	61.33
TTATCGGACATACATTGATGACAGT	649	56.33
TTATCGGACATACATTGATGACAGT	663	56.33
TTGGTGTCGGTCGTCTTGTTAC	119	58.61
TGGAGACACAATGCTACGAGATAC	910	57.09
AGGCAGTTGTTTCAGGCGGAA	1489	61.63
AGGCAGTTGTTTCAGGCGGAA	1178	61.63
AGGCAGTTGTTTCAGGCGGAA	1489	61.63
AGGCAGTTGTTTCAGGCGGAA	1178	61.63
TCTGTGGAGGCGGTTGATGT	431	60.08
TCTGTGGAGGCGGTTGATGT	1373	60.08
ATTGTTATTATGGTCATTATTGCTATGC	229	57.05
TTGTAGGAACCGAACCACCA	121	57.51
AAGAATTGAGTGGTGTAATAGGCACT	73	57.56
CCGTGAGCTATTCTAGTTATTGTATTGG	574	58.75

CTCAGCCGGAATGTTAAGATCT	81	56.29
AGCTTATTCTTCAGTCACTCATATAAGG	768	56.09
AATATCAAGGAGGATTGGCAGTT	57	56.91
ATAATTGAAGAACTTGAAGTCTTGATCA	378	56.99
CTGAGCAACCGAGCAAGCAA	93	61.18
GTTCCAATGTCTCCACTATCTCCA	1578	58.13
GTTCCAATGTCTCCACTATCTCCA	1287	58.13
TTCTTGAACCATCGGCACTG	247	58.3
TTCTTGAACCATCGGCACTG	247	58.3
TTCTTGAACCATCGGCACTG	310	58.3
CTGTTGAGCCAACTCTCCGAAT	2696	59.35
CTGTTGAGCCAACTCTCCGAAT	2696	59.35
TCTGGAGTTGTTGTCTGGTATGC	415	57.86
TCTGGAGTTGTTGTCTGGTATGC	333	57.86
GGAGCATATTCCGTACTTAATTGG	73	57
GTATGATGACTGGAGGATCTGTTG	124	56.35
GTATGATGACTGGAGGATCTGTTG	106	56.35
GACGATCAAGTCGACGAAGG	59	56.91
TTGTAGCTGTGATTGCGTCAA	105	56.65
GTGCCGATATGACTGTATGTGG	195	56.6
GGTGTTATTGCTATCATTGCTCCA	898	59.03
GATGAGTGCGGATTACCTGGA	523	58.6
GATCACGTATCTGTTCTCTGATGAGC	54	59.31
TGCCTCATTCTCCATCCGACT	59	60.55
AAGTCTGTTGCTAAGTCGTGTGATAC	1109	56.95
AAGTCTGTTGCTAAGTCGTGTGATAC	1205	56.95
CACTGGAGCCGACACTACAATG	386	59.25
ACGAGTGTGTTATCTGGACCTTGTTT	765	60.61
ACGAGTGTGTTATCTGGACCTTGTTT	640	60.61
GCGTCTTGTTGTGGTCCTGA	868	58.29
CTTATTGCATCGCTCATGGC	51	57.95
CACTCCGAAGTGTGTCTACATATTCC	960	59.02
ATATCCGAAGTGTGTCAACAACG	213	57.67
ACGCCGAGTACATTGTATGGTG	933	58.52
ATTCATCGCCTTCATCAACAGAG	161	59.21
ATTCATCGCCTTCATCAACAGAG	161	59.21
ATTCATCGCCTTCATCAACAGAG	161	59.21
ATTCATCGCCTTCATCAACAGAG	161	59.21
CGTTCTCGTCGGTATCTCAGG	174	58.41
TGAGTAATGAGCCTCGCGAA	519	58.2
AACTTCTCCGCCTAATCAATGG	86	58.27
TGTGGATTCAATACGGCTCA	2273	56.18
CGCCGAGATTATTGCCAGTT	1748	58.79
GCTGAGAGGACACAGAGGTTCCA	173	61.64

CCACTTGTAACAGATGATGGAGTT	786	56.01
ATCAGTCATCGCATGGATCAG	107	57.15
GCACGACGTGTATATGCACATC	309	57.67
CTGGAACACCATTGAGACAGTTC	633	57.31
GGAAGCCAGCTACCAAGACC	333	57.47
AAGCATTGGCAAGAGATGACTC	344	57.18
GTGTGTATTCCATGTAATTCATGCTCT	252	58.5
TTGATGACGATGCTTGTTGG	675	56.71
GAGTTGTGCTTCTGGCGATGT	661	58.94
CTTGTAGGAATGAGGACTTGACG	626	56.69
GTGCCAAGTGCGTGTCAAGT	158	58.38
GCTGTCTACTCGTTGATCTACGC	133	56.99
GAGCGACTATTAGTATGATTGAAGAAGA	848	56.85
ACAGTGACCAGGTGGCTGAT	640	56.57
GCACAATGTTCTCTCGGACCT	801	57.85
TTAGTCAAGGAGCACGAGAGC	794	56.07
TTAGTCAAGGAGCACGAGAGC	794	56.07
GCAACTTCAACAACAGACTCAACT	486	56.42
AGAGGCACTTCAATCGGCACT	323	59.85
GATAATAATGAAGTTCACCACCAG	289	56.82
AATGGAACAATTACAGACGGAGA	586	56.45
GAGGAGAAGCCGATTGTTATGG	1366	58.7
GAGGAGAAGCCGATTGTTATGG	821	58.7
CTACGATAAGACGGAGGATGCGA	616	61.34
AGGTGGAGGAGGTTGTTGTG	150	56.08
CGAAGTGTCAAGCATCTGGTT	246	56.54
GACGGAATGTCCAAGGCTCA	356	59.63
GCTTAGCACATCTGACGCAGCT	126	60.66
TCTGCCTGCTGACAGTGTGT	21	56.49
CATTGACGACGATTGGTGACA	65	58.99
CTGTGAAGCAGCAGCAGCAG	75	59.65
AGCAGGCAGAAGCAGGCATC	84	61.53
CAACAGTCGCTATGCTCTCCGT	280	60.4
ACATCAGCATCGGCATCAGC	45	60.75
ATAGGAGAAGATGGAGATAGAGTGGT	527	56.01
ATAGGAGAAGATGGAGATAGAGTGGT	545	56.01
ATAGGAGAAGATGGAGATAGAGTGGT	497	56.01
ATAGGAGAAGATGGAGATAGAGTGGT	497	56.01
AACTCACCAGCTAATCGAGAGG	36	56.38
TTGGTGACGAAGCGTTGAAG	497	58.5
TAGCATCCTCACCATCAGCCA	124	60.18
ATCTCTGACATTCTCAATCGCA	1708	56.11
ATCTCTGACATTCTCAATCGCA	990	56.11
GGTTCTCAGCCAGTTGTACCG	396	58.32

GCTGCGAAGTGCTAACAACG	179	58.33
ATCACAATGGAAGAGGAACAACA	97	57.19
ATCACAATGGAAGAGGAACAACA	245	57.19
ATCACAATGGAAGAGGAACAACA	552	57.19
CGTCCTAAGCCACTACTCAAGAAGA	1261	59.14
AATGGTTCTTGCGAAGGAT	442	57.21
TTATCAATCCGCAATGTATTCACT	78	56.5
AAGAACAGAATCAAGAAGAGGTACAGAA	170	58.27
AAGGTCTAATAATTCAGCAACGACA	69	57.26
CAGCGGTAATGGAGGAGGAAG	563	59.67
CTGGTTGTATCATGTGTGCAATCC	34	60.11
ATTCTGTCGCATCTGTCTGTGTC	262	57.93
GCTTGGCTCTTCTGCTTCTTC	614	57.19
CATTGCGTCGGTGAGAGGAA	801	60.74
CATTGCGTCGGTGAGAGGAA	867	60.74
ACGGTGAAGATGATGATAAGGAGA	71	57.79
GCTGTCCACCGTCTCATTGC	711	60.24
GCTGTCCACCGTCTCATTGC	740	60.24
GCTGTCCACCGTCTCATTGC	717	60.24
GCTGTCCACCGTCTCATTGC	746	60.24
GCTGTCCACCGTCTCATTGC	717	60.24
CGAAGACGAGAATCAAGATGAGC	25	59.1
CGAAGACGAGAATCAAGATGAGC	54	59.1
GCTGTCCACCGTCTCATTGC	609	60.24
GCTGTCCACCGTCTCATTGC	740	60.24
CCAAGGCATCAATAATCCAAGC	1406	59.41
GATTATTGCCTTGTCTAACGACTCTA	45	56.26
GAATCGTCAGCACACTCAACCA	87	59.74
ACCGTAGTACATTCCACCTCCA	89	57.09
CCAAGGAGTTCATACAGCGGAGA	1399	61.39
CCAAGGAGTTCATACAGCGGAGA	1410	61.39
CATCTGTCATTTCGGCTTGTAGG	1343	58.33
CATCTGTCATTTCGGCTTGTAGG	1403	58.33
AACTTCGTTCCGCCATCTATG	354	57.82
CGAACCATAAACAAGTCTGAGAG	82	56.28
GATTCCGATGAGCAGCTCTC	100	56.19
TCCTCTGCTCCATCGTCTTCG	66	61.37
TAATCAACGAAGCCAGTGTCTACA	2089	57.64
GGACAAGAATGATATGGTTCGCTT	760	59.37
GGACAAGAATGATATGGTTCGCTT	760	59.37
GGACAAGAATGATATGGTTCGCTT	690	59.37
GACCGACTCTTGTTCCGATG	1042	56.75
AGATAAGGATAACTCAACAACAATGC	1254	56.01
AGATAAGGATAACTCAACAACAATGC	1374	56.01

CAGTGCGGAGATCAGAGTGG	353	57.98
CAGTGCGGAGATCAGAGTGG	353	57.98
CAATGATGAACCGAGTAACACAGG	402	59.4
CCAGGAGCTTAACATGAGCGAGA	249	61.63
ATGATTCAGAGAGAGTATATGGAAGAGG	112	57.68
CGTTCTCGCCTTCGTGTCAA	41	60.91
AATGATAGAGATTGGTCGAAGTCG	89	57.51
ACCAGTCGCAGAGGAGGAACC	651	61.49
GGAGACGGACGAGGAGAAGG	118	59.77
AATGCGAGACGACTTGAGACA	566	57.15
TACGAGGATAATAGAGTCACTCAGGAAC	175	58.46
TACGAGGATAATAGAGTCACTCAGGAAC	89	58.46
TTCCGCCAATCTTCACTCTG	114	57.48
TATCATCTTCAATCAGCCATCG	1527	56.44
AACAGGACAGCTTGTGAACGC	57	58.99
GCACGAGTCTGATAGGCATAGC	1547	57.74
GCACGAGTCTGATAGGCATAGC	1627	57.74
CCTTGGATTAGTTGTTATTCTTGTTG	878	56.4
CAGAATGGTACTGGTCACTATTGGAG	791	59.01
ATCGCTGGTTCAAGGCAATG	165	59.66
AAGGTGGAAGGAGCAGTAGCA	56	57.69
TCTTCCTCACCAGCTATGTTCTG	235	58.08
CTGTCATTGTCAGTGCTGTCGT	227	57.47
AGGCTTCCAACATCTCATTTCG	744	57.87
AGGCTTCCAACATCTCATTTCG	744	57.87
AGGCTTCCAACATCTCATTTCG	744	57.87
AGGCTTCCAACATCTCATTTCG	744	57.87
CCTGCCGAGTTCTACTCATCG	1194	58.55
CGGCGACGATAACGACTACA	65	58.4
TTAGCGTTGCACTCAATTGATCAG	180	60.24
AACTGGAGACATCGATGCAGGA	31	60.59
CTCCAGTTCTTGATTGCCACA	1116	57.4
CTCCTTCGCTTATCTGTTATCCTG	1481	57.37
CTCCAGTTCTTGATTGCCACA	1116	57.4
CTCCAGTTCTTGATTGCCACA	1064	57.4
CTCCAGTTCTTGATTGCCACA	1014	57.4
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AAGATCGTGATGCCAACACC	129	57.04
AAGATCGTGATGCCAACACC	143	57.04
ATTCGTGTGGCTTCTGTGACTTC	1955	59.27
AAGAACTGAAGTCTCTGAACGACA	241	56.1
GCGTGGATTGTTCAACTGATG	453	57.67
GACATCGAGCTCGCATGCAA	123	61.99

AATCCAACGAACGTGATAGGTG	58	57.61
TGGCGATAACAGCAGACCTAA	668	57.16
GGCGGAAGGAACACTCAACT	913	57.84
CTGTATGAGCAAGTCGCAAGC	1734	57.42
TTATACTCTGCCACCACTTGCTT	302	56.81
TGATCCAGATTATCAACGAGACAC	1145	56.87
TTATTCCTTCGGTAATGAACACAA	548	56.54
TTGATGGAGAGCATGTGAGCA	916	58.97
GTGAAGGTTGCCATGTCCAA	66	57.99
CCAAGCCAGATGAAGCTGATG	235	59.41
TTCGGTGAATTAGGCGTCAG	912	57.44
TGCTTCTTCTCCAGAGGCTGA	509	58.89
AGCAACACCTCGCAGGCATT	42	61.66
TACCGACTCTCCAGGCTCCA	1480	59.38
TCTTAATGTATATGGCTCAATATGGAA	448	56.34
GCAGCTATCATTAACTTGGACTCA	841	58.4
TTCCGAATTATTAATTGTCATTGG	875	56.03
AAGATCCTATCAGAGTGAATGACACA	1666	57.08
GTTACCAATCAACTTATTATTCACGACA	365	57.78
ATTCAAGTGATAATCATTCTCGCA	339	56.64
CATTGGTTGGTGAAGTTCAGTCA	74	58.6
ACATTGGTTCACACGGATGGAC	413	60.48
TCTCTCTGCCGTTGATGTGTC	227	57.46
ACGACTCTATTAAGCCGCCAA	193	57.67
AACTGTATTGGAGGACGAGATTGAAC	769	59.78
GCGTCACTACGTCAGCCTTC	319	57.16
ATAGTGGCTCAAGTAGTTATCATGGTTC	311	58.3
TTGCCAATGGTCATCACAAAC	176	56.37
ACCACCTTAGCCGAATCACC	447	57.59
TTCGTGTCTGTCGTGTGTCC	68	56.6
TTCGAAGAGAACATGTTCAAGCAGA	199	61.16
CAATGCTTGTGTCGATATTAACATGC	1108	60.54
GCAATAGTGGAACAGGTGGTACT	990	56.03
GCAATAGTGGAACAGGTGGTACT	990	56.03
GCAATAGTGGAACAGGTGGTACT	990	56.03
CGGATGTCTGTATTGAGTGTACTGG	746	58.63
CGCTACTCCACCAGTGAACG	367	57.98
CCGATTGATAACAGGCAATATGG	461	59.21
CCACTAGCTGCAATTATCTATCGC	627	58.21
TTCTGATTGGTTGCCGCAAC	1101	60.58
TCGCACGGAATGACACATAC	606	56.57
TCCAATAATAGGCCAATACGGT	723	56.45
TGCTTGTGAGGAACAGTACAGAA	712	56.33
CAGACAATGAGAATGAGGATAATGAAG	952	58.33

CGAGAGGAAGATGATTATGAGGAT	1031	56.63
GTTGCTGTTGATGAGAAGAACAAGTG	293	60.18
AACATGTCGGCTCCTCGACA	699	60.23
ATCGTGAATGGATTAGTTGTAGTTGT	593	56.18
TTGCTCTTGTTGTGGTGGTG	628	60.68
CATCCGATGCGTTACATTCC	711	57.5
TAGCAGTGACGAGAATGAGAGATGA	1119	59.16
TAGCAGTGACGAGAATGAGAGATGA	1119	59.16
AATGCGGACCTTGGACTTGT	1950	58.11
TTATCATCGTTCTGGAGCATCA	793	56.93
CCTATTCCACCACCACCACCA	594	61.35
GAGGACGCCATCAGCAGAATG	167	61.63
GCTCCAAC TGATACCGCAAGA	507	58.93
CGTGTTCTCTCGGACTCTCG	72	57.2
ATTGTGATGGTGTGGTGTGAAG	142	58.34
GTAAGAAGGTGTACGCATCTAGGC	96	57.32
CCGACCAGCAATATGTCCAA	95	58.03
GAACAATCTGAGCCACACCAA	543	57.24
ACTCGCCGTTGTCTTCCTCA	50	59.43
GCCAAGGACGAGATGAGATACC	247	58.67
GCCAAGGACGAGATGAGATACC	247	58.67
GCCAAGGACGAGATGAGATACC	454	58.67
GCCAAGGACGAGATGAGATACC	287	58.67
AACAAGACGACCGAGAAGAACG	28	59.39
GCAGACATCACTACCAAGGTCAGA	92	59.28
ATGTCAGTGATGCTGGCACTT	904	56.86
ATGTCAGTGATGCTGGCACTT	1078	56.86
CCATTCCACCATCTCTACCACA	107	58.37
ATGTCAGTGATGCTGGCACTT	973	56.86
CCGAATTCTGAGCATAATCCG	270	58.27
AAGTGCCGAGTGAGTGATGC	44	57.48
GAAGGCCGGAAGTGATACACG	891	59.19
AATTCTGATAAGAAGGAGTACGTTGAG	377	56.69
GGTTGCTTCATGGATCACTGG	112	58.99
AGCTCTGACTCGAATTGTCTGG	126	57.29
TAGCGGCGATGTTACTGATG	493	56.09
TCATACAGAAATCCATATCATCTTCCTAC	181	57.01
ATATATTCGTTCCAAGAACAAGCTACAC	857	58.34
CGAAGAAGGCGAGCTTACGG	619	60.93
TATCGTTTCGGTTGACTGGTGT	217	56.66
TGGTCTACAACACTGTGATTATGAACA	85	59.74
GCGACGGAACCAATGATGCT	2306	61.87
GGCGAATCAGGAACCTCAGGA	265	58.81
TTCTCTACTGGTAATTGTGACAGCA	64	56.87

GAAGGAACGATGATTGGAGAGA	1108	56.95
CACTGTGATTGACTCTCAGCCTCT	247	58.67
CGCATTCTTCAGTGCCACAT	949	58.32
GATCTATGAGGAGAATCAGAAGACTGT	59	56.55
GGTGCTGGAATTGCTGCTAA	226	57.59
GGTGCTGGAATTGCTGCTAA	226	57.59
GACGATGAAGCGATGATGGC	329	60.15
AAGATGCTTCCGAGAGAAGTTCC	1345	59.01
AACTATTCGGACGCCACTTCA	481	58.32
TTCTAATAATATCATTGATACGGCAGTC	1001	57.18
CAGTATGAATCGGTTGGAAGTATG	382	56.46
TGAGATTCTAGTGAATGCGGCTGA	338	61.97
CAGTATGAATCGGTTGGAAGTATG	382	56.46
CACTGTATGCTGGAGAGGAAGAC	330	56.73
ATCAACACATCAGAACTCAGCACA	938	58.38
ATCAACACATCAGAACTCAGCACA	896	58.38
AGAGGCGGCAGCAGACAGAC	257	61.61
AGAGGCGGCAGCAGACAGAC	257	61.61
CAATCGAGGATCGAGCACAT	180	57.29
CGCACAAGTCGTTTCGTCACT	73	58.53
CGCCAACTGGTGATCATTATTCTC	74	60.63
GTGCTGTATTGAAGGAGTCCGTTA	1283	58.38
CGAGGAGACTCTTGTTCTTCCAGAT	1956	60.22
CGTCAGATCATCAGAGATAACGAGAT	247	58.84
GGATTCACATCAATCAGGCAGA	616	58.59
GGTCAGCGTCATCCAATCAC	608	57.52
CTGACGGACATCTCATTGACACA	635	59.6
CTGACGGACATCTCATTGACACA	533	59.6
CTGACGGACATCTCATTGACACA	509	59.6
CTGACGGACATCTCATTGACACA	618	59.6
TTCACAATGCTAGTAAGCCGAA	102	56.45
TATGACAGAAGGAAGTGGAAGTGG	302	58.31
GTCGTCCGCACTTAATCGCT	509	58.94
TTCGGTGGTGATCTTGGTGA	277	58.49
TGCGGCTGTATTCTTCATTG	229	56.06
GCGACGAAGAATCTTCAGCGA	741	61.46
ATCAACAATATATAACTGGTGTGATTGC	32	57.64
GTGGATTGTAACGAGGAAGATTG	667	56.45
GGTTGTTGCCGATGTTACTACG	207	58.18
GCTATGACTCGATTCTCTGGCA	50	58.17
TCGAGTATAGCTGGAACAGCTCATG	466	60.7
TTGGTTGTCTCATTCTTCAGTT	101	56.52
TTGCCGAGTCTTCTCACAGG	1416	57.61
CAAGGAGCGTGTGAAGCAAG	117	58.25

TCAATTAATGCAACAACAGGCA	1497	57.83
CGACTCCACACTCTCAACCG	366	57.88
TCAATTAATGCAACAACAGGCA	1316	57.83
CAGCACGTCATCAACAAGAACT	300	56.62
TTCCTTGAAGCTCAATTGCC	1373	56.63
GCACTTGGTGCAATTCTAATTCCTT	913	60.62
AATTCTTCTCGGTGACGTTCTT	111	57.89
ATCTCTCCACACGAATTGATGC	265	57.74
ATGATGGCTATTGTTGCTGGAT	661	57.21
CCGACGACGTTGGAAGTTGA	116	60.63
CCGACGACGTTGGAAGTTGA	71	60.63
TCAACCAATGCTCTCAACTCAATC	26	59.24
CGGACGGAATGACCAATACTG	135	58.9
TGCCTTCTTAGCGTGATGATTC	62	58.09
AACTCAACGGCTGCTTCTGT	99	56.27
AATTGCCGCCTATCACGATA	391	56.86
AGGAATGATTCAAGCGGCTGTTAC	940	61.51
TGGAACCTCAACTCGGATGGA	634	57.65
ACGGAGAGCCAGTAATCACACA	1139	58.33
AATGACTTGTGCTTGTTATCTTGG	765	56.27
GAGAGCGACGGATTCAAGAT	138	57.88
TCGCAATCTTCTTATCATCATCG	273	57.97
TCGCAATCTTCTTATCATCATCG	407	57.97
TGTCATCGTCACTATCATTGTCAC	509	56.24
TAACGATCCAACGATACAGTATTGTGTG	414	61.08
CCACTACCAACGGCGGCTTA	2052	61.81
TGGATACTCGGAGGCTCTGC	331	58.98
GTAAGGATGATGCGGCGAAG	1169	59.26
GTAAGGATGATGCGGCGAAG	1238	59.26
GAGATGCGACAGGAGGCGAT	1558	61.24
GAGATGCGACAGGAGGCGAT	1297	61.24
AGAAGACACTCCACTCTCCAACACTAC	108	56.03
AGAAGACACTCCACTCTCCAACACTAC	108	56.03
AGAAGACACTCCACTCTCCAACACTAC	114	56.03
AGAAGACACTCCACTCTCCAACACTAC	114	56.03
GACGGACGGTGATAAGACTGC	1033	58.27
GGTGCTGATTATGAAGTTGATGAAG	293	57.91
GGCTGATGTTGTTGGATTGG	942	57.45
ATGTGAAGCTATGCGGCGAA	142	60.32
ATGTGAAGCTATGCGGCGAA	31	60.32
CGTTATCCTGAACAATCCTCACATC	726	59.73
CAGCTGTTAAGACGCCAGTTGT	122	58.2
ATCAACCAAGACAGCGAAGAGC	54	59.49
ATCAACCAAGACAGCGAAGAGC	279	59.49

TTATGGTGACGATGAAGAAGCA	128	56.99
AGCTGATTGCATCGACACTTC	491	56.62
CGATCAACCGTCCATCTCAT	508	56.98
ATAGACAGTAATGGATATTGTTGTGGCA	385	59.9
TGAATAGAAGAAGCATGTGACGAA	193	57.7
ATCTCACTTCTGGTGGCGGTT	264	59.58
CGAGAAGCACGCAAGGTCAA	461	61.04
TCGCCGTTGACTATTCCGCTA	266	61.51
CGAGAAGCACGCAAGGTCAA	37	61.04
AACCTGCGGAACACCAGAGTA	695	58.32
CAATCAATAATGCTGAACGTGGATA	52	58.95
TTGATCGACAATGGTGGCAA	1154	59.48
TTGATCGACAATGGTGGCAA	1145	59.48
GCATTCACTCGTCCTCCTTACC	70	58.71
CTTGGACGATGCCGACGATA	2243	60.56
GAGCGGTTGAGTGACGAGGA	1749	59.96
GAGCGGTTGAGTGACGAGGA	327	59.96
AATGGAAGAAGGAGAAGAAGCA	945	56
TGGCGATGGTATTGACGATG	610	58.94
AAGAGGCGTTGAAGAGAATGG	2987	57.17
AAGAGATCCGAGAATGTTAAGTGG	2291	56.74
AAGAGATCCGAGAATGTTAAGTGG	1628	56.74
ATACTCGTGCCAGTTCTCGGT	2418	57.42
ACTGCGTTGATGGTGTCTCTC	2861	56.41
GCTTGCTATGACTATGGTGGCT	201	57.18
GTATGAAGGTGTTGAGTCAGTGAGATG	983	59.15
GTATGAAGGTGTTGAGTCAGTGAGATG	983	59.15
TTCGTAATAGAACGGCCTGAA	144	56.23
TTCGTAATAGAACGGCCTGAA	459	56.23
CCGTATGCTAATCTTACTGATGTGA	1078	56.36
GGTGAGAGCCGAAGTGAGCA	406	60.1
TGAAGGCGACAAGTGTGGAA	123	58.85
CACCATAAGCCGCTCATCGT	180	59.68
GAATCTGAGCAATCGGAAGC	53	56.16
GGCAGGAGATCGGCTAGGAGT	815	60.66
GGCAGGAGATCGGCTAGGAGT	822	60.66
CTGCTGATGGAATGGAATACG	110	56.8
TTCCATCAACAATCCATCGTG	73	57.87
CCAAGGAACTGAGGAGGAGAT	147	56
AATGAGCACGGAGCAGAAGC	100	59.17
GCTCAACGCCAAGGAACTTC	5523	58.52
GCTCAACGCCAAGGAACTTC	5545	58.52
AAGTGGCTGCGAGTAAGTGC	1809	56.86
AATGAGTACGCGAAGAGTGGTC	795	57.12

CAGTTGGTTCCGATGCAGAT	1207	57.2
CAGTTGGTTCCGATGCAGAT	1243	57.2
CAGTTGGTTCCGATGCAGAT	1245	57.2
GCTATGGAGATTCTGGATGTGG	658	57.24
GCTATGGAGATTCTGGATGTGG	658	57.24
GCTATGGAGATTCTGGATGTGG	658	57.24
GCTCATTCCAGATGTACTTCTTACC	1040	56.37
GCTCTGCTTACCACTCTTCAAGTTAG	1072	58.13
GAATGCGTGAAGGAAGGAGTT	180	57.02
GAATGCGTGAAGGAAGGAGTT	619	57.02
GAATGCGTGAAGGAAGGAGTT	543	57.02
GTTGTGAAGGAAGTCCATGCC	2427	58.09
AAGACGACAATGACGATGACG	1352	57.27
AAGACGACAATGACGATGACG	1352	57.27
AGTGCCAACGTGGATATGACC	73	58.39
GCACTGATGAGGCTGTATTGAAGA	702	59.39
TTGTTGAGCAGCAGCAGCAG	180	60.04
GTGTCATTACAGTAGTGTCAAGTGG	47	58.67
GGATGGAAGTGTGAATCGTTGAAG	2377	61.77
GAAC TAATGCCAAGAGATATGAGAAGA	678	57.43
CGGAAGGCATAACTCAATGG	52	56.79
CGGAAGGCATAACTCAATGG	52	56.79
ATGGTTCCAGAATCGAAGAGC	548	56.96
ATCCTCCGAATCTTCCGACA	134	58.12
CGAGATCGAAGATTGATAGCAGTC	146	58.19
CGAGATCGAAGATTGATAGCAGTC	146	58.19
AATTGCGGATATGGCTAATACAG	632	56.22
CTATGGATGAGAGGATTGTGTTGA	124	56.87
TTGATGCTTAATCGAGCGTTC	112	56.78
CAATCAACAAC TACTTCCAATGCC	407	58.59
ACTGTGCTACCTATGTCGTGTGA	1019	56.08
CGTCTTCCATCTATCATCAACCA	399	57.68
TACATCCTATGACTCCATACTTCGG	181	57.36
ATTCGCCATATCGCTAATACCA	311	57.35
GTTGGCATTGAGGAGGCGTT	514	60.95
CTATCAGAACATCGGTGTGTAACGG	256	60.59
TCACTGGCTCATCTAACTCGTCA	28	58.6
TATCCTCTCCGTCGCTCCGT	95	60.69
CTCAGCTCCGACATAGCCACT	338	58.17
CTCAGCTCCGACATAGCCACT	297	58.17
TCGACGTTAGATTCCAAGTGAA	1389	56.16
GCTCGTTATCTCGGACATCAG	222	56.13
GCCATTCACTACTGTTGCGATCA	232	60.97
CGTCAGGAACAAC TACTACAACCA	101	57.07

TTGCGATGCTAGATCACCTG	280	56.08
CGCCAAGATTCAGGAGCAAG	972	59.54
GTTACGGTATCTTCGGCAA	1755	57.29
CCTGGTACCATCTCTTAACTCAA	798	56.81
CCTGGTACCATCTCTTAACTCAA	249	56.81
CCTGGTACCATCTCTTAACTCAA	249	56.81
AAGAGTTGCGTTGTTGTATGCG	466	58.94
TTGGAAGAACAAGACACTTCAACA	119	57.57
TTGTGCTCCGTGGTTATGTTG	663	58.15
TTGTGCTCCGTGGTTATGTTG	469	58.15
GAGGTCCATATCCATTCGGT	589	56.44
GCTTATGATAGAGTAGAAGACGAGGTT	2561	56.1
GCTTATGATAGAGTAGAAGACGAGGTT	2605	56.1
AAGTTCAATATGATCCAGAATGTCTTG	1572	57.83
AAGTTCAATATGATCCAGAATGTCTTG	1616	57.83
GCTTATGATAGAGTAGAAGACGAGGTT	3343	56.1
GCTTATGATAGAGTAGAAGACGAGGTT	2481	56.1
GCTTATGATAGAGTAGAAGACGAGGTT	3478	56.1
GCTTATGATAGAGTAGAAGACGAGGTT	3343	56.1
GCTTATGATAGAGTAGAAGACGAGGTT	3478	56.1
GCTTATGATAGAGTAGAAGACGAGGTT	2481	56.1
GCTTATGATAGAGTAGAAGACGAGGTT	2561	56.1
GCTTATGATAGAGTAGAAGACGAGGTT	2605	56.1
AAGTTCAATATGATCCAGAATGTCTTG	1572	57.83
AAGTTCAATATGATCCAGAATGTCTTG	1616	57.83
CCAGTATATGAAGGACTTAGCCGT	571	57.97
AACATCCGACAGGTTGTATCAATGAG	154	61.21
GTGGACTTGGACTTCGATACCTT	2268	57.34
AATGGAGACATCAGGCTGGA	867	56.69
CCTGCTGTCGGTTATCACTATG	204	56.07
CCTGCTGTCGGTTATCACTATG	204	56.07
TCGGAGAACTGTAATACTGGAAGA	204	57.28
CTCATCGAATGGAGAGATACTGAA	380	56.29
AGAATACAACATACAACACGTCACCTGA	176	59.02
CTCCAGTTGCTTCCTCCACCA	483	61.13
CTCCAGTTGCTTCCTCCACCA	483	61.13
TGTTCCAGTCGTTGTAAGCG	427	59.88
GCAAGACCACCTGTTCAGAGA	1366	56.55
TCCTGGAGAAGAAGAGGTATTATCC	584	57.16
TCCTGGAGAAGAAGAGGTATTATCC	646	57.16
CAAGGAGTTCCATTGTATGCAAGAC	235	59.88
AATGTCAGCCACAAGATACAAGAG	25	56.3
AAGTGGAGACGCAGGTGGTA	121	56.85
TGAGAGAATCAATGGTCCTAATCC	620	57.3

TGAGAGAATCAATGGTCCTAATCC	740	57.3
TCAACACATCAGTGAATGCCAA	302	58.62
ATGGCAGCAGTTCAGTTGGA	256	57.89
ATGGCAGCAGTTCAGTTGGA	203	57.89
ACAGCAGTTCAGTTGGAAGTAGC	156	56.51
AATTGAAGGTGCTATCGTTGCT	1065	56.74
GATGAGATGAAGGAGTCCAATGC	1070	58.66
CCACCAGAGCACCTACACCT	540	56.28
TTCAACGCCAGCACCTTATGTC	1173	60.96
AAGTGTATTCAAGCTCACTAATGTGC	523	56.99
AAGTTCATTCATCATTGCTGGAG	365	57
ATGTGTTATTGGATGGTTGGAGT	61	56.04
AAGATTCCAGGTGGTTCCGGA	899	58.03
CCAGAACGGAGGAAGAAGCA	785	59
CGTAGCAGTCGTCGTTCCAG	1858	58.13
CTCTCCTATCTAGCACACAACCTG	63	57.41
CTCTGGATAGTATAATGTACCTCCGAAG	991	58.01
TTCGATGCGTCAGGAACAGT	707	57.89
TTCACTAATAACTTCTCCGCAA	1415	56.83
TTCACTAATAACTTCTCCGCAA	1211	56.83
TTCACTAATAACTTCTCCGCAA	1055	56.83
AGATGCGGAACTGATGATGTC	2197	56.24
CTGCCAGTCACCAGGCGTTA	34	60.79
GACGGAGGAGACGAGGACAA	808	58.82
GACGGAGGAGACGAGGACAA	688	58.82
GACGGAGGAGACGAGGACAA	759	58.82
CGTCGTTCTGTTCTCATTCTCTC	28	56.84
GAGCCTGGTCTTGACTATTGTGA	854	57.1
GAGCCTGGTCTTGACTATTGTGA	817	57.1
TGATCGTGTCAGGCTCGTTCT	122	57.15
GGATGGAGCATTGAAGAGAGAA	1273	57.09
GGATGGAGCATTGAAGAGAGAA	1224	57.09
AACCAACTCTTCCACCAACTACA	2511	56.46
TGCAGATACATTGACAACGAGAA	267	57.07
GAAGATGCCAACAACTGCCA	1849	58.3
GAAGATGCCAACAACTGCCA	1441	58.3
TTAAGTCGGCATGGATAACATCA	1310	58.13
CCAATTGACAAGTGCTATGACAA	699	56.5
GCAACGACACAACATTGAGC	84	56.34
TGAGTCAGCCATGAGGAAGAAC	286	57.99
GCAACGACACAACATTGAGC	100	56.34
CTCGATGGACAGCTCTGGAG	49	57.13
AATGTGCCAAGTGCCAAGTG	637	58.22
TTCTCATCGTTCCTCTTGCTTCT	139	58.28

TTCTCATCGTTCCTCTTGCTTCT	141	58.28
TTCTCATCGTTCCTCTTGCTTCT	141	58.28
GGCTGAAGTGACATTGAATGAGAC	110	58.76
AATTAGCAGCATATGGTCAGGAA	50	56.66
GGAAGCATTACTTCTTGCTCAACTCA	83	57.73
GAAGTAGAGATGGAGGATGTGGTG	68	57.77
GAAGTAGAGATGGAGGATGTGGTG	68	57.77
GGTTGACGTGGAAGAATTGG	517	56.55
AATTCTCCATCTTGCCAAGTCC	815	58.2
CAGTTGGAAGATCTGTTGATGAGA	544	57.09
GCATATTCAATTCGCGGACA	944	58.19
GCATATTCAATTCGCGGACA	961	58.19
CCACTGAATGCGACTTGAATC	258	56.88
TCTACAATGTTCCGGAGAGTTCC	347	58.25
ACGGAAGTTGAAGAAGACACGGA	1110	60.96
GCAATGATGTTCACTTCCACT	384	57.71
TCAACTCTCCGCTGTAGATGACCTT	1430	61.37
TCAACTCTCCGCTGTAGATGACCTT	1436	61.37
GCAGAGTGACTGGCACAACA	152	56.94
AATACGTTGAATGCTCAGCGT	483	56.19
CGAATTATGTCCTGTGCCAGA	44	57.31
CATAGACTACGCTAGTGGTGAGATACG	61	58.59
TTATGAGTTGTAGAGACGCAGAATG	88	56.56
CATAGACATCATCTTCTGAATGCG	264	57.54
TTCCGAGTGACAACATTCCA	4628	56.08
TTCCGAGTGACAACATTCCA	4628	56.08
GCAGAGAGTTCGGCTTCCAA	3759	59.14
ATTGAGGAAGGACCACCATAACC	538	57.81
TTGCGAACAGTGATCCTATGATG	169	58.71
GCTGCGAGGAAGGAAGAATC	375	57.68
GCTGCGAGGAAGGAAGAATC	201	57.68
AATGCAACAGAGCACTTCCG	402	57.57
ATTGATATGAGAGATGTTGTCAGGTT	882	56.12
GAATGTACCAGGTCGTGGAAGT	123	56.68
GAATGTACCAGGTCGTGGAAGT	183	56.68
TCTACTCAGTTGCTAACAGAGATGCT	529	56.93
CGAGGAATCGCTACGAGTCA	237	57.66
ACTCGTCCAATCTCTTCTCATCG	1015	58.48
ACTCGTCCAATCTCTTCTCATCG	541	58.48
TAAGCGATTGTGGAGTGGAGAT	710	57.44
TAAGCGATTGTGGAGTGGAGAT	780	57.44
TAAGCGATTGTGGAGTGGAGAT	594	57.44
CATGAACTATCCTTCTGTGAATGC	150	56.6
CCAGAAGGAGGAGAATCAGAAGA	493	57.71

ATCTTCGCAGCCGTTCTCAA	405	59.54
AATACGAATACACTTGCGGCGACT	304	61.86
AAGGCACTGGACACTATTGCG	202	58.85
AAGGCACTGGACACTATTGCG	129	58.85
ATTGTTGGACTCACTACTGCGTT	31	56.63
GACCTCTCCATCTCGCCTCA	40	58.92
CCTATGTCCTCGATTCTGTTACG	83	56.62
GGCGGTGCATATATTACGAGATG	65	59.36
GGTGGTCCAACAGGCTCTAGT	2534	56.86
GGTGGTCCAACAGGCTCTAGT	2534	56.86
AAGTTCTGGCCGCTCTGCTG	273	61.54
AAGTTCTGGCCGCTCTGCTG	273	61.54
GAGATAATCCGTACCAGATGATGC	664	57.7
TTACCTCCGAGGCATCGAGTA	62	58.41
CTACCATCTATCCATTCGATTACGA	188	57.39
AATGCGCCTAATAGACCACCT	99	56.56
CAAGGTCCGGTCTCAATTCAG	77	58.24
TTGTCTACCATGAATCTCAGGCT	1892	56.63
TTGTCTACCATGAATCTCAGGCT	1878	56.63
TCCACAAGAAGAATCAAGCGT	1455	56.16
TTCATCACCACCACTAAGCCTTC	271	59.12
GCAATTGAAGCGGTTGTACG	309	57.91
TATGTCTGCTGCTGCTGCTG	76	57.5
ACACCTTCCTCGTCGTTCTCG	91	60.25
ACACCTTCCTCGTCGTTCTCG	340	60.25
ACACCTTCCTCGTCGTTCTCG	162	60.25
GAATCAGCATATCTACCACCGAA	162	56.92
AAGTGAGTGGTATTGGTGCTGAC	58	56.9
AAGTGAGTGGTATTGGTGCTGAC	58	56.9
AAGTGAGTGGTATTGGTGCTGAC	40	56.9
GTGCGATTGCCAATTCGATA	206	58.19
GGAGAATAGTCGACCGGACCA	275	59.9
GGCAACCTCTGTGACGCATTC	235	61.53
CGGACGTGTCGGAGCTACTG	177	60.41
CGGACGTGTCGGAGCTACTG	391	60.41
CGGACGTGTCGGAGCTACTG	234	60.41
GGATATTGATGAGCGGCTGGTA	852	59.9
TCAGAAAGGTGGCGAGATAACC	436	57.87
TCAGAAAGGTGGCGAGATAACC	436	57.87
ATCGGCTTCTCATTACACCAGGA	802	60.77
CAACGTGTCGAGTGTCACTAAGG	745	58.44
AATCTTCGAATTATGTTCTTCGAAG	102	56.17
ATTCTCCACCACGACCATCAC	421	58.31
GGAGACTTCCTTCGCAGAA	58	58.05

GGAGACTTCCTTCCGCAGAA	108	58.05
CCGACTGGATTGGTGTGATAG	160	58.05
ACTTCAAGCCAATAATGTTGTTGCC	533	61.44
ACTTCAAGCCAATAATGTTGTTGCC	627	61.44
ACTTCAAGCCAATAATGTTGTTGCC	604	61.44
ACTTCAAGCCAATAATGTTGTTGCC	627	61.44
AAGATGGAAGAAGCATGGTAATGG	139	59.37
CTTCACCGTCCTCCGCTCAT	191	61.12
CTTCACCGTCCTCCGCTCAT	191	61.12
TTGGAAGAATGGAGCAGAGAA	311	56.22
CCACAGGCTGGAGAGAGAGG	76	58.57
CACACACACACACTCACACCGT	175	59.01
GACGCTCTTCTCACTGCCACA	97	60.15
CCAAGTCGTCGGAAGCCAAT	4141	60.94
CCAAGTCGTCGGAAGCCAAT	4141	60.94
GGTGTTATTCCGAGCAGTGC	677	56.89
AATACAAGCCAGAACTTATTGAAGC	837	56.25
AATACAAGCCAGAACTTATTGAAGC	837	56.25
AACAATGGATGAACTGAACGCT	29	57.35
AACAATGGATGAACTGAACGCT	29	57.35
GGACGCACTACAGGACGGAT	72	58.62
GCTTGTGGAGGAATCATTGAGGTT	276	61.44
GCTTGTGGAGGAATCATTGAGGTT	312	61.44
CGGTTGAGCCATACGAGAGTTC	637	59.73
CGGTTGAGCCATACGAGAGTTC	637	59.73
CGGTTGAGCCATACGAGAGTTC	615	59.73
CGGTTGAGCCATACGAGAGTTC	680	59.73
CGGTTGAGCCATACGAGAGTTC	609	59.73
CGGTTGAGCCATACGAGAGTTC	637	59.73
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AATTGAAGGAGCAATATGGAGATG	197	57.4
TAGCTGACGCTGCAATAATGC	711	57.85
AAGCGAAGGAAGAACTTGAGAA	796	56.21
CTAGTGGTCCAAGCGTTCTCA	1133	56.7
AATCCACGAATCCTTACTACTGCT	1287	56.39
ATAATGTTCAAGATCAGATCGACGACT	180	59.45
TGAAGTCATCAGAACAACCTTGCTAA	412	59.5
TGAAGTCATCAGAACAACCTTGCTAA	412	59.5
TGCTATAGGCAAGTTGATGGAA	300	56.24
CATCTATCGCTACGTTGTTGTCTG	359	57.67
TTCATTCCAGTCGTCGTTGTC	759	57.24

ATTCTTCGATGCTCCTGGAGA	272	57.55
TGTTGGTGTGATTGTTGTGCA	941	58.02
TTCTACAAGTTCTGATTCCTATGCTG	783	57.04
GATCAATCAGCAAGTTGTTGTCTC	186	56.67
AAGGAGACGCTGGATGGAAT	3258	57.27
CGTTGAGAAGAGATTGGTGGA	521	56.45
CGAGGAGGTTGCCAATCAAG	496	59.26
TGTCATCATTCCATCATCGG	264	56.23
AAGCTCTTCTGATTCGGACACA	1837	57.67
AAGCTCTTCTGATTCGGACACA	294	57.67
AAGCTCTTCTGATTCGGACACA	1854	57.67
AATGCTTGTGGATACTTCTTCTGAT	2523	56.37
TCCAGTTATTCGTGCGTGTG	743	56.81
TCCAGTTATTCGTGCGTGTG	743	56.81
TTGGACACAGTGACACGGTGA	66	59.6
CCAGGAACACCAGGAGAGCAG	342	60.76
GATGTGTCTGCTTGTTGGC	372	57.74
TAGGAGAGACCAAGTGTAAGGAGTG	266	56.91
TAGGAGAGACCAAGTGTAAGGAGTG	244	56.91
TAGGAGAGACCAAGTGTAAGGAGTG	266	56.91
ACTTCTTCAGCAGCATCGGACA	219	60.89
ATCGTCATGTCTGGATTCTCTGT	82	56.36
AACGAATCAACGGCAACAAC	39	57.2
CGTTCGTTACTACGTTGGACAC	58	56.05
ATGCTCGCTCTTGCTTCTGC	53	59.45
TTGATGATGTTTCAGTCAGCAGTT	1007	56.1
TTCCACTGATGATGTGCGAA	1123	57.19
CAACTTCTGTCACAAGCACGGT	537	58.9
CATCCTTCTTGTTGCCATTGTC	45	58.17
CTCTCATCGCCTTCTCTACCG	67	57.78
CAACAACCGAATAATCGACGAA	163	58.6
ATCGTGCTCGTGCCAACTG	184	60.77
GAACCAGCAGCCTTGAGGA	249	61.23
CAATAATGGATGTCTACGGTGTGG	523	59.15
ATGCTTGTTCTGTGTGTGTTT	196	56.3
CATTCTCGTCCTTCTTGTCGCT	76	59.48
TCTTGCCAGTCATATCCAGTCC	506	57.74
GTTGGCAAGACACAACGGAGAT	939	59.99
ATGTTCTTGCTCTGATTGGATATACTTC	461	58.35
CAAGACTTCATTATTGAGCATCAGG	211	58.04
TTCCATTGGTGGAGATGAGAA	449	56.63
GGTTCAGAAGGTGTTCCACAA	168	56.2
CGTGACCATTGTATTGATTGCG	174	59.84
AATACTGGTAGTGAACGATGTCAATG	191	57.34

AATACTGGTAGTGAACGATGTCAATG	181	57.34
GCAACTTGACGCCGAACTTAC	381	58.51
GCAACTTGACGCCGAACTTAC	353	58.51
GCAACTTGACGCCGAACTTAC	396	58.51
TTAACATTATTCTGTTCTTCTGGTTCT	185	58.01
GAGAAGATGAGTGATCTGATTGGC	215	57.97
ATTGGTATCTACTCGAATAATCGTCCA	520	59.24
AATCAGCATGGCTTGGAGATG	249	58.74
AATCAGCATGGCTTGGAGATG	205	58.74
TCTCAGGAACAGGCAACAATC	195	56.44
TAACAATGCCAATCACCAACG	61	58.01
TATCAACAGCAACCACCTCCTC	4153	57.79
CACAACTATTGGAAGTGGTATGAACA	530	58.12
CACTTGTATTCGGCTGGACTC	655	56.04
TTCGGAGAATCTTTCGAGTGT	307	57.67
ACCGTGTAAGGCTGTTGATGA	108	56.82
GGACATTGGAAGATTGAGTTACCG	49	59.71
GCAAGCGACAGTAGCTGGTT	169	56.86
CTGGAGAAGATGATTGATTGTGG	725	57.28
GGTTCTTCTGCCGTATGTGC	35	56.89
AGAGAGTTGCCTAACGATGAGC	244	56.52
CAATCAATTACAGTATTGGTGTGAAGC	491	60.02
AAGACAGAGATGATGATGATGCTTAC	1029	56.76
CCGCTGTTGTCTATTAGGACCA	209	57.88
TCCTCAGCCATCTTGGTCAA	559	57.81
AAGCCACCACTCCACACCGT	697	61.35
AAGCCACCACTCCACACCGT	612	61.35
AAGCCACCACTCCACACCGT	602	61.35
AAGCCACCACTCCACACCGT	682	61.35
AAGCCACCACTCCACACCGT	602	61.35
AAGCCACCACTCCACACCGT	682	61.35
CGAATACTCTTCCACCAGACG	37	56.05
GAGTGGTTCACGTAGAACTTATCGA	572	57.62
GGAGAAGGTGCGGAATACGG	644	60.4
TTCGTGCGTCTTCTGAATCG	53	58.6
GCTTCATCGTCACCGTCTACA	790	57.43
GCTTCATCGTCACCGTCTACA	790	57.43
CCTGGAGCATCAGTCAAGAAGA	210	58.13
TTCCTACAAGGCCAGATATGAGC	69	58.41
GCAATAGGAATTACCAACGAAGA	885	56.25
CCAACCATCACACAGAAGTCC	884	56.52
TTGTCGGATGATTTCGTCGGA	435	60.95
GTATGCCACCTCCACCTCCA	365	59.36
GTATGCCACCTCCACCTCCA	60	59.36

CGAGTGATCTGTTCCATTCCG	343	59.13
TTCCATTAGTATCCAGAGTTGAAGAGT	955	56.92
TCTTCTTGATACGCCATCTGC	162	56.68
TCTTCTTGATACGCCATCTGC	187	56.68
TCTTCTTGATACGCCATCTGC	219	56.68
TCTTCTTGATACGCCATCTGC	106	56.68
TCTTCTTGATACGCCATCTGC	171	56.68
TCTTCTTGATACGCCATCTGC	187	56.68
TCTTCTTGATACGCCATCTGC	385	56.68
TCTTCTTGATACGCCATCTGC	106	56.68
TCTTCTTGATACGCCATCTGC	171	56.68
TCTTCTTGATACGCCATCTGC	187	56.68
TCTTCTTGATACGCCATCTGC	385	56.68
TCTTCTTGATACGCCATCTGC	106	56.68
TCTTCTTGATACGCCATCTGC	171	56.68
TCTTCTTGATACGCCATCTGC	187	56.68
TCTTCTTGATACGCCATCTGC	385	56.68
TATGTCTATTGTGTCCGAGTCTGAA	375	56.68
TATGTCTATTGTGTCCGAGTCTGAA	375	56.68
GGATACTGAGTCGCCATTGG	269	56.67
TGCATATATAACTCATGATTGTCACAA	319	56.56
CAGTCAGAGATGCGTGGAAGA	93	57.62
ACGTCCTGAAGACGACAGAACT	470	56.66
CCAGAAGACAGAACTGAACAACC	429	56.61
CGAGAGAGACGGCGATCAATG	164	61.74
TCCAGATGATGAACAACACCAA	53	57.51
CACACTACACCTGGCTACAACG	63	56.99
TTATCCAATTCTTCAGATTGTTCCA	233	57.78
TTATCCAATTCTTCAGATTGTTCCA	407	57.78
GTCGCTGTGGTGGTCAAGGT	677	59.59
ATCAGAAGAGATTCAAGAGACGCA	2241	58.29
AACCGGAGCAGGATTCCATT	2317	59.36
GTTGTAAGTGCGGAATCATCACC	2265	59.36
TTAACTGCTCTCCATATTACAAGC	2504	57.02
CAACTCACATCAGCCACCAG	93	56.22
CAACTCACATCAGCCACCAG	92	56.22
AACCACTTCGTCCTCTGTCTTC	2255	56.14
AACCACTTCGTCCTCTGTCTTC	2255	56.14
AACCACTTCGTCCTCTGTCTTC	2255	56.14
ATCCGTCATCTCGCTCGTCT	244	58.44
ATCCGTCATCTCGCTCGTCT	298	58.44
ATCCGTCATCTCGCTCGTCT	261	58.44
AAGATTGCGACATTAACGGAA	658	56.08
GAATGTGACACATGTGCAATCTG	245	57.61

GTGACTCATGACATAGTTAGACAGTCAA	96	56.82
CTACAGATTCCTGTTATGACATTGTCT	309	56.04
TGTGAAGCAAGGACAAGGAGT	1119	56.1
TTGTGTACAGTTCTCATTCCATT	734	56.38
ATTATTATCGTTACAAGCCATCGTT	261	56.29
ATGAATGAAGAGGAACTGACAGAAGA	86	58.5
ATGAATGAAGAGGAACTGACAGAAGA	86	58.5
TTCTCTCCAGAGTATCATGAAGCA	160	56.9
ATCATACGCTTGGAGAGTGGAG	426	57.06
ATCATACGCTTGGAGAGTGGAG	426	57.06
ATCATACGCTTGGAGAGTGGAG	426	57.06
ATCATACGCTTGGAGAGTGGAG	426	57.06
TATGCCTCCGAGCAGTCCAA	1172	60.31
CCTCCGAACGTTAGGAATCC	92	57.21
AACAAGGAGATAACATGACTGTTCTG	338	57.49
TTGCTGTTCACTGTTGTGCCA	811	59.9
TGTGAAGATGGCAGGACAAGT	417	56.83
TAATGTGGTCGCTGTTCTCTGA	38	57.83
TACATTACCAGTTAGATATGGTCTTCCA	576	57.44
TTGCCGTATCAGCTCTTATGG	505	56.67
TTGCCGTATCAGCTCTTATGG	584	56.67
TCTGAAGTTGACGACGATGAAG	178	56.68
GATGTCTCATTCTACTACAGATGCTCA	75	56.96
AACAGCGGCAGCAGAATCCT	6092	60.86
AACAGCGGCAGCAGAATCCT	6125	60.86
AACAGCGGCAGCAGAATCCT	6005	60.86
CCAAGACTCTTCGTCGGAATG	412	58.38
AATGCCAATGAACACTATTACGG	98	56.83
AATGCCAATGAACACTATTACGG	189	56.83
TCCACTGGAATTGCGGCTAT	898	59.13
TTCGGCATATTCATGGACCA	677	58.37
AAGTTGATTGGAGATCTTGCTTCA	1218	58.08
AAGTTGATTGGAGATCTTGCTTCA	354	58.08
AAGTTGATTGGAGATCTTGCTTCA	772	58.08
CGCCTACTACGAACACTTCTTCATCA	474	61.66
CGCCTACTACGAACACTTCTTCATCA	474	61.66
CAAGTCTTGTTCTACGAGTTGTTCC	791	57.31
CATTCTTCGGCAGTCTTGGA	89	57.48
CATTCTTCGGCAGTCTTGGA	98	57.48
ACTCACCACGACCTGCTCCA	129	60.28
TGTGAACACCTCGATGTGTGA	155	57.06
CCACCACCAAGAACTCAACAATC	2274	59.36
CCACCACCAAGAACTCAACAATC	2336	59.36
TATGGAGACTGTTAGAATGCGTGA	1178	57.59

CCACCACCAAGAACTCAACAATC	1184	59.36
AGCCAATTGATCGTAAGGAATAGG	51	58.62
GGTGACTGCAATAACTCAACGA	150	56.52
CCGGTGAGGACTAACAGCTG	39	57.01
GGTTGAATAACTACTGGACCGATC	63	56.85
TGAATATCAGAAGAAGACGGAGAA	775	56.01
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ATGTTGACCTGAATCTCTTGAATG	388	56.06
AATGTATGCCTGTTCTGTGG	479	57.09
TGAATATCAGAAGAAGACGGAGAA	810	56.01
CGGTGGACAAGGTGGACAAG	1080	59.96
CGGTGGACAAGGTGGACAAG	1051	59.96
CGGTGGACAAGGTGGACAAG	1078	59.96
CGGTGGACAAGGTGGACAAG	1055	59.96
CGGTGGACAAGGTGGACAAG	1236	59.96
CGGTGGACAAGGTGGACAAG	1212	59.96
CGGTGGACAAGGTGGACAAG	358	59.96
CGGTGGACAAGGTGGACAAG	232	59.96
CGTCTTCACTTAACCATCTACTCTT	27	56.77
CCATCTACCGTCTTCACTTAACCATC	44	60.09
CCACAACATCAATATCAACAACAACG	189	61.14
AACAACAGCAGCCACAACAAG	55	57.54
TGGACAAGGTGGACAAGGAG	868	57.13
TGGACAAGGTGGACAAGGAG	1239	57.13
TGGACAAGGTGGACAAGGAG	1215	57.13
TGGACAAGGTGGACAAGGAG	1161	57.13
TGGACAAGGTGGACAAGGAG	1137	57.13
TGGACAAGGTGGACAAGGAG	1083	57.13
TGGACAAGGTGGACAAGGAG	1054	57.13
TGGACAAGGTGGACAAGGAG	1081	57.13
TGGACAAGGTGGACAAGGAG	1058	57.13
TGGACAAGGTGGACAAGGAG	868	57.13
TGGACAAGGTGGACAAGGAG	1183	57.13
CGGTGGACAAGGTGGACAAG	1180	59.96
GACCACACAAGAAGCCATCC	774	56.59
CCAGTTGTCAATGCTGATGCT	1872	57.43
CCAGTTGTCAATGCTGATGCT	1889	57.43
GATGTCATAAGCTTGCAGATCCT	177	56.3
AGTCGACACACATGTTACAGAA	325	56.83
AGTCGACACACATGTTACAGAA	165	56.83
GATGTCATAAGCTTGCAGATCCT	177	56.3
TCTGTCGCCACCAACGAGAGT	1058	61.73
TTGGAACACGATATTCAACCATT	502	57.06
TTGTATCCTGTCGGATTCACTTG	439	57.73

CATCTACTTGGCTTGCGAAGA	399	56.89
TCAGAACCATACTCAACCTTACAAC	195	56.37
TCAGCATCATGGCTTCAAGG	448	58.39
GACACCAACCAGTGATTGAACA	929	57.01
CTGGCTTATTCTCGCTGGA	167	59
GCGGCTGAGATGGAATGGAT	1976	60.9
GATCTTGTCATTGATAGAATTGTGAATC	793	57.39
GATCTTGTCATTGATAGAATTGTGAATC	793	57.39
TGTTCAATTGGTGGTCTCAGTTG	413	57.17
ATCTGCTCTTCTCTCCAATAACAAC	48	57.5
TTATCATGGAATCAAGCCAGCGT	378	61.55
TTATCATGGAATCAAGCCAGCGT	378	61.55
TGTGGTGCCGCTGAAGATTG	7291	61.72
TGAGAGCTTAATGTCGTCAACAAC	35	57.26
CACTTATGAAGATGACTATGCCAGAG	336	57.32
AGATTGGATGGACGAGACGA	1630	56.69
AATGCTCACAAGACTGAACCG	39	56.54
AAGGATGGTTATTCTCAGTGGCT	1514	57.01
TTATGATGGACCAACTGTAGTGTCG	345	58.97
TGCCTTCATCAGAAGAACCG	121	57.48
ATCCAGGTGTCCGAGAATGCTA	416	59.56
CAGTTATAATCGGATTCATTCTG	312	56.51
GTGACACGTTGGTGGAATTCG	1414	59.84
GCTACTCCTGCTCCATCAAGAC	644	56.79
ATTACACAGAAGATGATTGTCAGATTG	94	56.67
ATTACACAGAAGATGATTGTCAGATTG	94	56.67
CATCTTCTCATTGTGTCTCTCGTT	213	56.3
ACTTGACACGCCTGATATTGCC	159	59.97
CGACTTCAACTTGGACAACAGG	127	58.35
CCAATGTCATGCAAGCACAG	86	57.28
CGGTAATATGTGTCCACCAGAA	1094	56.16
AACCAACCATGAACAAGATCATCC	48	59.93
AAGCAAGTGGTCGTTGTGATG	138	57.33
TCGCCAACAATCTGACAACA	343	57.25
TCGCCAACAATCTGACAACA	343	57.25
CACTTGAGCCAGATGCGTTC	547	58.05
GAATGCTTGGAATGTTGAATGTTG	578	59.37
GAATGCTTGGAATGTTGAATGTTG	578	59.37
CGGCATTGAGGAATGCTGTT	540	59.66
CAACCTTGCCAACCTGATTC	643	56.71
CAGCACCGAATTCCGAGAAG	353	59.4
CGGTAGAGGAAGGAACTTACGC	980	58.1
TGGAGATAGTGCGACAAGTAGAGA	2462	56.98
AACCAGAGTACAGCAGATGACCA	204	57.48

AAGGCTTAGTGCACCAATTAAGGATA	154	59.48
TGGCTTGGAGAGAAGTGGCA	1540	60.48
TGGCTTGGAGAGAAGTGGCA	1384	60.48
TGGCTTGGAGAGAAGTGGCA	1540	60.48
TGGCTTGGAGAGAAGTGGCA	1384	60.48
TGGCTTGGAGAGAAGTGGCA	1333	60.48
TGGCTTGGAGAGAAGTGGCA	1315	60.48
TGGCTTGGAGAGAAGTGGCA	1341	60.48
TGGCTTGGAGAGAAGTGGCA	1315	60.48
TGGCTTGGAGAGAAGTGGCA	1237	60.48
TGGCTTGGAGAGAAGTGGCA	1316	60.48
TGGCTTGGAGAGAAGTGGCA	1326	60.48
TGGCTTGGAGAGAAGTGGCA	1318	60.48
AGGAGAAGATGGAGAAGGTTGC	189	57.58
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AGTGAGCAACCGAGAGACGAAT	1033	58.99
TTGGTAGAACAGTATGATTCTTGCG	451	58.44
TCTTCCTGATCCGACAGCAAT	604	58.33
TCTTCCTGATCCGACAGCAAT	549	58.33
TCTTCCTGATCCGACAGCAAT	529	58.33
TCTTCCTGATCCGACAGCAAT	584	58.33
AATCCAGTCACTAGATCACAGATCAAGT	316	58.74
TACACACTTCTAGTTCTGTCAACTGCTT	1743	58
TACACACTTCTAGTTCTGTCAACTGCTT	1743	58
ATCAGCAATACGGACAGAGTTCA	7775	57.5
ATCAGCAATACGGACAGAGTTCA	7709	57.5
ATCAGCAATACGGACAGAGTTCA	4262	57.5
ATCAGCAATACGGACAGAGTTCA	4328	57.5
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ATCAGCAATACGGACAGAGTTCA	7781	57.5
ATCAGCAATACGGACAGAGTTCA	7715	57.5
ATCAGCAATACGGACAGAGTTCA	4329	57.5
AAGCCAATAGGAGTTCGTGTACA	134	56.68
GGACAATTCGCTTCGACGGT	82	60.95
GATGTCAAGGTGGTGCCGAGT	402	60.9
GCGGCTGCCAATTAATGTCT	27	58.79
GAAGAACATGATGGCGAGAAG	62	56.09
GTGTAGCGTGCCGTGTTGTC	49	58.81
CGAGAATGTGATGTAGAAGTGATACG	525	57.99
CGAGAATGTGATGTAGAAGTGATACG	551	57.99
CGAGAATGTGATGTAGAAGTGATACG	531	57.99
AATAGTGTCAATCCAAGTGTGTGATGA	637	60.79
GTGCGATCAGCCTATCAATATTATTCTC	40	60.44
CCATCATCTTCCTGTTGTTTCG	36	56.73

TCAGAAGACGAAGAGGACCATT	1526	56.62
TCAGAAGACGAAGAGGACCATT	1536	56.62
TCAGAAGACGAAGAGGACCATT	1526	56.62
TCAGAAGACGAAGAGGACCATT	1536	56.62
GGCTGAATCGGATAAGTTGAAC	402	56.51
TACATTCTACACATCTACTGAACTTGA	143	56.5
CTCTTCAGGCGATTGCACTT	255	56.77
TTCTATGGATGCTCTGTCACGA	322	57.05
GCGAAGTTCCGAGGAGAGAG	1039	57.81
AATACAGTGGACTCGCTAACAAGCA	151	60.16
AATACAGTGGACTCGCTAACAAGCA	151	60.16
CAATAGAAGTGGTGCCGAATG	211	56.86
GAGACGATCTCGGAGTTATTATCAG	322	56.45
GGCTCCATTCAATTCAAGATATTCAAG	136	60.13
TTATTGACTATTCGGATGTTGATTGG	1421	59.18
ACGTTGAATTCCATTCCAGCA	1284	59.02
ATCCACACAATCAACAACCAATG	783	58.2
TTCAATCCGTGTGATGTATGTCTT	108	57.18
ATCCACACAATCAACAACCAATG	783	58.2
ATCCACACAATCAACAACCAATG	519	58.2
AAGGAGGTGGTGGTGGTGGT	2537	60.09
AAGGAGGTGGTGGTGGTGGT	564	60.09
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CCGATTGTGAAGGAGAAGAGAT	1096	56.14
CGTGTGGCTTGACACTAGAACC	411	58.38
CGTGTGGCTTGACACTAGAACC	504	58.38
GATCGACGATGGTACCTGGTA	79	56.09
GATCGACGATGGTACCTGGTA	79	56.09
TTGTAGGAAGTGGTCAGATTGTGC	61	59.17
TCGTGTCTGAGAACTATTATTCAGTTGA	1480	58.54
TCGTGTCTGAGAACTATTATTCAGTTGA	924	58.54
TCGTGTCTGAGAACTATTATTCAGTTGA	1085	58.54
GGACATCCACGCTTGTTACG	818	57.69
GTTGGAACGTCTAGCAGCTACAGT	347	57.88
TTCAAGAGATGCCGTTCAAGC	81	59.04
AACCTGTTGACTCTGAGCAATGG	818	59.27
GAGCAGAGACCACGAATTGAGT	1093	57.14
CGACAGCACGTCTTATAATTATGAGA	393	57.74
GCTCGTGATTCTTGCGGTTT	51	59.41
TGGTACGATGCTATGCAGTTG	205	56.02
TGGTACGATGCTATGCAGTTG	327	56.02

GATTGTAACGATGGCAGCGA	428	58.33
CCAAGAAGGCACGGAAGAAGA	238	60.3
AATTGCTAAGAACTATCAGCTAAGTCAG	138	56.38
GCTTGCTCATTATTGTGTGCTC	117	56.32
CGAGGAGGCGAAGCATAACG	187	61.68
CTTGTGGCATGTGTTGAGGA	287	56.66
GGTCACCGTGAAGAGCATTG	1225	57.74
GGTCACCGTGAAGAGCATTG	1225	57.74
GGTCACCGTGAAGAGCATTG	1225	57.74
GCTGCTCATACTCATCCACATTC	416	59.47
GCTGCTCATACTCATCCACATTC	416	59.47
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GCTGCTCATACTCATCCACATTC	128	59.47
AATGTTGATGATCCTGTGAAGCC	209	58.95
CTGGAGTGTTCCGAGGAGTCA	707	58.88
CTGGAGTGTTCCGAGGAGTCA	740	58.88
AATAACTGGAGACAACGAGGAACA	1117	57.89
AATAACTGGAGACAACGAGGAACA	1184	57.89
CAAGAAGAGAGTGTCCAATCCG	51	57.53
CAAGAAGAGAGTGTCCAATCCG	51	57.53
CAAGAAGAGAGTGTCCAATCCG	72	57.53
TGAGCAAGACAAGTGAGGAGGA	339	58.66
TGAGCAAGACAAGTGAGGAGGA	43	58.66
TGAGCAAGACAAGTGAGGAGGA	218	58.66
ATAACTGTCAGGTCAGACTTCTAATCAC	567	56.53
TTGGAGCGAGGATATGTGTTT	157	56.37
TAATATTGCAACATTATGATTAGGACCA	65	58.07
TGGAATGAGCAACAAGGAAGG	959	58.76
AAGCAATGAAGCAGTACGAGCA	1454	58.79
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AAGCAATGAAGCAGTACGAGCA	1526	58.79
AAGCAATGAAGCAGTACGAGCA	371	58.79
AAGCAATGAAGCAGTACGAGCA	1493	58.79
GGCAGGTTGAAGCATTGACA	552	58.3
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CATAGTCCGCCGTGTACGACAG	504	61.39
CATAGTCCGCCGTGTACGACAG	541	61.39
CATAGTCCGCCGTGTACGACAG	541	61.39
CATAGTCCGCCGTGTACGACAG	504	61.39
CATAGTCCGCCGTGTACGACAG	541	61.39
GAATCTCGTTGCCTGTTGCT	24	56.61
TCGGCAGTCGCTTCTATTGTG	63	59.98

GCGGCAGCTGAAGCTACAAC	165	59.75
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ACATTGAATGGAGCCACAGAA	1466	56.72
ACATTGAATGGAGCCACAGAA	196	56.72
ACAGCAACTCATTCAACAATCAAC	107	56.98
GCGTTCTGCCATCTATTCTCA	741	56.68
AACATTACGAACAGGAATTGAGC	318	56.19
GGATACACAAGGAACACACG	677	56.51
GGATACACAAGGAACACACG	334	56.51
ACAGAAGGATTGAGGAGACGATT	237	57.03
GTTAGAATAGAGATGGAACATGAGCA	537	56.86
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GCTGTACTTGTTACGCTGTATTCC	631	56.05
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GATCAAGAGGTTGCTGAAGTGAC	601	56.69
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GAGCAACTGCCAATCTCGCA	559	61.03
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GCGAGAACAACAATGCCGTT	43	59.7
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CATCGGAGGAGGAGCAGGAG	97	60.83
CATCGGAGGAGGAGCAGGAG	97	60.83
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GAAC TTGGTTATGTCAATAATTGGTCA	756	58.4
CAAGTCTGTCGGATAATGATGATACC	91	58.85
CGCCTATGCTTCTGCCTGCT	52	61.48
CAGCACTTGTTGCATCTGGA	97	56.99
CAGCACTTGTTGCATCTGGA	89	56.99
ATACACAACCTCTTCGCCTCGA	322	59.73
GGAACGACCTGATGGCACTT	1009	58.59
AAGCCGTCGGACTTGCTCAG	108	61.41
GTTGACAGCGGTGAGGAGGA	1023	59.81
TTCTATGTGCCGACTATTGTATGG	411	56.97
ATGTTGAAGGAGAGATTGATGAGC	295	57.54
CTGTACCTGGTCTCTTCGCCAT	362	59.24
TATCAGATAACCAGAGCGATATAGTGA	184	56.57
CTATGGAATCAGGTCAGATGAAGAAC	460	58.28
TTCCGAGTTGCTCAATAGGC	30	56.66
GCAACAGAATCCGTCACAAGA	218	57.4
GATGTGGAGCCTCTCTATTCTGTAG	1067	56.54
TTCCACAGGCACAACTCGTC	97	58.29
CAGACACCACAGTCGCTCCA	93	59.44

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CTGACAGTACGGTATATGGATGGA	1761	56.74
CTGACAGTACGGTATATGGATGGA	1728	56.74
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CGTCGATGGCGACAACACTA	78	59.3
ATTGATAGTGTTGTCGCCATCG	41	58.58
TGTACTIONGGTCGGAGGAGTTG	804	56.39
TGTACTIONGGTCGGAGGAGTTG	804	56.39
AATCCACAACAACAACCAGCCA	97	61.12
TGTACTIONGGTCGGAGGAGTTG	697	56.39
TGTACTIONGGTCGGAGGAGTTG	601	56.39
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TAACTTCAATGATTCGGTGGAGT	1375	56.45
TAACTTCAATGATTCGGTGGAGT	1252	56.45
CAGAAGATGAGCAATGAGGAGAG	379	56.93
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CGATCAATTCCTAGTGAGGAGAACT	478	58.06
TGTTCAACAAGACAGTACATTCCAA	874	56.02
CCGAAGTTACAGCCATCAGAA	240	56.59
AAGATTGGAAGAACTCAGAAGCA	1289	56.08
GCATCAATCGAATGACTTCTGTAC	412	56.6
TTGTGTGCACGCTGATCCTAA	24	58.93
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TGCTCTTCATGCCATTGACA	2219	57.35
CACCGTCTAATCTGCTCAATCTG	1863	57.65
TTGTGGTATGTGATGATTGTGGT	1166	56.35
TTGTGGTATGTGATGATTGTGGT	1191	56.35
ATTCAAGGCATACAGGACAGGT	887	56.35
ATTCAAGGCATACAGGACAGGT	912	56.35
TGACTGGTGGAGATTCTGAGATTAGC	334	60.88
ACATCGGATTGTTCACTCCACAT	783	59.21
AGCATCACAGCATAACACATACAAG	280	57.14
GAACGCAATCAGTTGGAGTCA	76	57.4
TCAAGTTCACATTGGATTACGAAG	356	57.02
AGTCATCGCCACCATCTCCA	422	60.04
ATAGTGAAGAAGATACAGTTGCTGGAAT	553	58.09
GAGCAGCTGAACACGAAGAAG	82	56.57
CCTGTGCTCAGCGATCAATG	97	58.98
TGGTCACAGCTCAGCCGTTAC	271	59.89
GAGTTCAAGTGCTCTAAGATTGCG	541	58.41

AATATACTCGCTAATCATGCCAGCCTAC	888	61.8
GGCGCTTGTCGGTTGTTAG	347	61.46
AACTAGGTTACTCTACTTCGACATGGC	700	58.51
TTCGTTTCATCATGATCCGCTT	25	59.12
TTGAATTCTAACAATTGCAGCAA	405	56.4
CCTATCCTATGGAATCCTGGTCA	331	57.97
AGAATACATCAAGCATCATTATCCTG	378	56.67
ACCTACTTCAACCAACGATGGCTAT	317	60.11
GCAAGCTGGAGCAATTATGC	225	57.23
ACCGTTATCTCTCATCTCTGTTCG	1872	57.62
AGATAAGGATCAGGTTCTCAATGAGC	84	59.19
AGTTCAAGTTGCTGACCAGGAGA	348	59.02
GCAACTGAACCAGGACAGACCA	451	61.05
TCTAGTGCATTGGTACTATTGGCT	884	56
CGTGTGGTGATGGAGCACTT	3303	58.16
CGCGTTGAGAATGTTCCAGA	1941	58.45
CATATTATATTCCAAGCGGTTTCATTACG	442	60.8
CATATTATATTCCAAGCGGTTTCATTACG	836	60.8
CATATTATATTCCAAGCGGTTTCATTACG	614	60.8
CGAGATGTTGAGAAGGTGGAA	219	56.45
TGCCTCATCATCTGGTGGAA	74	58.6
GCAGACGGAGAACTACTACAACCA	1664	58.51
TGCCTCATCATCTGGTGGAA	382	58.6
CTCCATCAGCCAAGAACTCG	114	57.07
CCATCACCACAACCAATATCATC	458	57.65
TTGTCAGATATAATGATCCAGATATTGC	3241	57.77
GCAGAAGGCAATGGATGGAC	367	59.08
TTCACAACCTGCGACACGATG	203	57.85
ATGTCTGAACTCGCGGTGGT	63	59.17
GACAGATGGAGAAGATGACCGAA	285	59.17
AATTGGACAGACTCATTACATCACA	1772	56.39
AACCGCTACTTGAACTACACCTACA	496	57.3
TTCGCCGCTCTATCTCTACAC	602	56.01
AACCGCTACTTGAACTACACCTACA	436	57.3
TTCGCCGCTCTATCTCTACAC	557	56.01
ACTTGATGGACTCATTGAGCACTT	524	57.96
TGCTCCTCTACACTTACCGTATCCA	142	60.01
GCACTTGACTCTGCAATGTCTCTT	2473	58.71
GCACTTGACTCTGCAATGTCTCTT	2473	58.71
AACAACCACTAATTCGACCACAA	39	57.22
TGCATACATTGCCAGTACCAA	2544	56.27
TGCATACATTGCCAGTACCAA	2544	56.27
TGGAAGAATAGGCGATCTTATCAATG	824	60.54
CTCCAAGAACACAAGTTATTCCAGT	710	56.74

CTGCATTACAGGCATGATC	568	56.2
GTACACTTCCACATGGCACGA	358	58.09
GTACACTTCCACATGGCACGA	358	58.09
GTTGCTGTTGCTGCTGTCGTAG	296	59.71
TCTCAATGCCGATGTCTCAA	326	56.34
TCTCAATGCCGATGTCTCAA	145	56.34
TCTCAATGCCGATGTCTCAA	38	56.34
TCTCAATGCCGATGTCTCAA	73	56.34
TCTCAATGCCGATGTCTCAA	52	56.34
ATATTGGTGGAGTTCAGATTAAGCAG	1239	57.96
ATATTGGTGGAGTTCAGATTAAGCAG	1455	57.96
ATATTGGTGGAGTTCAGATTAAGCAG	1896	57.96
ATATTGGTGGAGTTCAGATTAAGCAG	1461	57.96
ATATTGGTGGAGTTCAGATTAAGCAG	1902	57.96
ATATTGGTGGAGTTCAGATTAAGCAG	1059	57.96
ATATTGGTGGAGTTCAGATTAAGCAG	622	57.96
ATATTGGTGGAGTTCAGATTAAGCAG	1211	57.96
ATATTGGTGGAGTTCAGATTAAGCAG	723	57.96
ATATTGGTGGAGTTCAGATTAAGCAG	1221	57.96
GACAAGACCTTCGGAACCAA	50	56.27
GCTCGCAAGTTCACGGACAA	571	60.92
AGCAGCGTCACAGTGTCTTG	447	56.19
GATATGTCCGGAGGTAATCGAA	42	56.71
ATGCTCTCAGATGCTGCCAA	446	58.14
GCAACTGGAGATATTCGTGGA	926	56.37
AATCATGCCGCAGCTCTAGG	1756	59.03
GTGATTCACATTAAGCCATCTGTT	219	56.07
TGACGAGTATTATGATGATGACGAGGA	2412	61.72
AAGAAGCCGAACGATTATGATG	320	57.05
TTGACATGCTTGTTGTGTGGA	423	57.17
TTGACATGCTTGTTGTGTGGA	423	57.17
ATGTCTGGCGGATTAGGAGGTC	268	60.27
ATGTCTGGCGGATTAGGAGGTC	268	60.27
TTGCCAAGTTATCGGACCAA	124	57.68
TCGGCACTTATGATTGGTTACG	755	58.62
GATACGAGGAGGAATTGTGGAC	1718	56.25
GTCAGTGTGCTGCCACTCA	706	56.94
GGACGGCAGTATATTGCTGGA	939	58.66
GGACGGCAGTATATTGCTGGA	939	58.66
AGGTGTCAGGCTTCATTCGG	116	58.73
TCGAGAAGTCATGGAAGGCA	3113	57.96
TCGAGAAGTCATGGAAGGCA	3149	57.96
GACTCGACACTGCTGCGGAA	120	61.1
GACTCGACACTGCTGCGGAA	120	61.1

GACTCGACACTGCTGCGGAA	120	61.1
GCCGCCAAGGAGACAAGTAAC	1434	59.72
CATCCAGCAGCCACTGAAGG	100	60.36
GGCAGTGCTATGGTTGACTTC	268	56.03
TTGGTCTACTTGAATGTGAATAACG	449	56.26
ATACACGGAAGCGAATATGGAG	87	56.94
ATACACGGAAGCGAATATGGAG	97	56.94
ATTGTGGTCGCCTGTATGTCA	1056	57.55
CGAGATAATAGAGAGGCGCACTG	80	59.16
TGAAGAGAGTGAGAAGCACAGAGA	77	57.23
CCAAGATGAGAATATGAAGAAGTGC	1112	57.23
CGTCCGACACTCCGAATCAG	122	60.22
CCAAGATGAGAATATGAAGAAGTGC	996	57.23
CCAAGATGAGAATATGAAGAAGTGC	995	57.23
CGTCCGACACTCCGAATCAG	140	60.22
CCAAGATGAGAATATGAAGAAGTGC	913	57.23
CGTCCGACACTCCGAATCAG	257	60.22
CGTCCGACACTCCGAATCAG	363	60.22
ACTGTCCTCATCGTTCTCGCT	251	57.61
ACTGTCCTCATCGTTCTCGCT	266	57.61
ACTGTCCTCATCGTTCTCGCT	251	57.61
CTGTATGGATGAACAATTACAATGTATG	222	56.86
GGAATGAGACTGGAACAACCTG	31	57.24
ACGGAGAATGATGTCAGAGGAA	139	57.33
ACGGAGAATGATGTCAGAGGAA	139	57.33
TCCGTGGAAGAAGAGCTGAT	282	56.11
CCAAGCAGAGACACGGAATC	160	56.91
CCAAGCAGAGACACGGAATC	174	56.91
CCAAGCAGAGACACGGAATC	160	56.91
CCAAGCAGAGACACGGAATC	174	56.91
ATGAAGGTTATTGTAGAGAAGTTGAAGG	558	57.71
GCAGGACATACAGCTCTCATTCC	204	58.86
GACAAGGAAGAGGATGAACCGT	463	58.19
GTCAAGGCACGATCATTACAGTT	127	56.94
GGCGTCTCGTTCCAGATTCTG	117	61.61
TTCTCTACCGTGCCAGTGATG	474	57.43
GTCAAGGCACGATCATTACAGTT	157	56.94
GACCTCTTCCGCTTCATCTTACC	333	59.24
CGTCCATCTCGTCGTTCTGC	518	60.37
CGTCCATCTCGTCGTTCTGC	518	60.37
CATGAATTATTCATCGGCCAGTT	28	58.86
CGTAGTCGGAGCACTATCGG	53	57.08
TTACAGCAATCAGTGACAAGCC	95	56.67
TTACAGCAATCAGTGACAAGCC	401	56.67

CAGTGATTGTCAGATTGCTTGC	3531	57.1
CTGTGAAGAAGAAGGATGTGTCTG	2163	57.6
CACTGATATTACTGTGATCTTCGCTGA	1034	59.7
GGTTGTTGTCCTCTCGTGTCTC	77	57.35
TGGAGCGAACCTTCAGTGAT	68	56.91
GGATGATTGGTGGATTGTTCG	30	58.69
GGATGATTGGTGGATTGTTCG	30	58.69
CGAAGAAGTTGGTGCTACTTACGAT	168	58.95
TGCATCTATCTCATCTTGCTCCT	38	56.85
TTAGTATGCGCACTAGCGGTGT	75	58.61
TGTTGACATGACCAGTGAGAACG	255	59.64
TTCCTATGGTTCGCTGTGGT	62	56.74
CACGACACATTGCCAGGACA	310	60.13
GTCCTCCTCATCCTTCATTCTG	175	57.25
TTACAACCTCAATCCACTTCATCAATACC	183	59.58
AAGTATGATGATTGGATTAGTGGTGA	348	56.83
ATGATTCACGATTCAAGCCAA	250	56.77
ATTACAAGGAGCATCAACTGGAC	183	56.07
ACCACCGAAGACGACGCATC	2259	61.96
ACCACCGAAGACGACGCATC	2215	61.96
TGTGACCAACTGCGACCTAA	291	56.35
GTCGCAGTCGTTGTGGAGTC	818	57.88
AACAACCTCGGAACACCAAGACA	56	58.21
TGTTATCAGAGACGGTTGTGCT	93	56.12
ATCGCTTGACGCTGTAGACG	1713	57.74
GTGCCTTCCGACTTCCATTCT	111	58.18
GAGCAACTTCTTCGGCCAACA	280	61.22
CGCGAAGGTTGATGATGCAT	57	60.57
TTCACATTGTATTCTTATTCACTTCTCA	820	56.52
TTCACATTGTATTCTTATTCACTTCTCA	415	56.52
GCGACAGCCGTTATTGGATT	67	58.65
TTGCCTGTGTGCTTGTGACTG	780	59.51
AAGACGAGGAGTGCTCTCAATG	1378	57.29
GCAGTGGAAGGATGCAGATCA	1081	59.79
AATCCGATATTACCGCTGCCA	58	60.24
ATGTGAGAATGACTTGTGGAACC	102	56.66
ATGTTAGGTGTGGCGATTGC	119	57.17
AAGAACACGACTATGATGACCGA	548	57.36
AATACAAGAATTGAGAAGCGATGG	65	57.58
TCCTCCGATTCCAGATTGAC	780	56.13
TCCTCCGATTCCAGATTGAC	713	56.13
TCCTCCGATTCCAGATTGAC	453	56.13
TCCTCCGATTCCAGATTGAC	713	56.13
AAGATAATAAGAACAGAACTCCATACGA	260	56.28

AAGATAATAAGAACAGAACTCCATACGA	111	56.28
GAAGATAATAAGAACAGAACTCCATACG	245	56.28
AGTTGACAAGGAAGAAGCTGCCA	343	61.2
CGTCGTAGACCATTTCTCTATTCG	124	56.76
GATGCTTATCATTCCACAACCA	210	56.2
GGCTAACGAGAGTTGCGGAT	97	58.03
AATCAGTCACAGACTGCTGCTCTT	55	58.36
CCAACAATGTGATGTAGTGAGCA	199	57.3
TTGTCCAGGCGATACCACGT	190	59.95
TTGATTCAACCGAAGCTATATCC	368	56.19
CCGATCAGAATATTGCAGTGAA	500	56.51
AATCTATGCCAATATCGTCAACAG	377	56.15
TGGACGTATACCGATGTATGGCA	1370	60.9
TGGACGTATACCGATGTATGGCA	1481	60.9
TGGACGTATACCGATGTATGGCA	1353	60.9
TGGACGTATACCGATGTATGGCA	1481	60.9
TGGACGTATACCGATGTATGGCA	1370	60.9
TGGACGTATACCGATGTATGGCA	1481	60.9
TGGACGTATACCGATGTATGGCA	1370	60.9
CCTCATCTCTTCACCTATGGCTACTG	61	60.44
AAGAGGAGTGTGATGAGGAGGA	308	56.51
CGGAGCAGGTGGATTAGGTT	112	57.74
CGGAGCAGGTGGATTAGGTT	822	57.74
CGTTGAGCGTGTGCGGAGTGT	105	60.87
GTCGTGAAGCTGCTGAATTGC	290	59.6
TGATTCTACGCTTCTTCAACCTC	222	56.48
TGATTCTACGCTTCTTCAACCTC	287	56.48
CACATTACTCGCAGGAGACACA	1191	57.5
CACATTACTCGCAGGAGACACA	1308	57.5
GGTAGAAGTTGTGATGGTTGATGC	160	58.56
CATGGAGATGGAGATGCACTC	847	56.7
CATGGAGATGGAGATGCACTC	797	56.7
CATGGAGATGGAGATGCACTC	797	56.7
GCCAGCCAGAACAGAGATAATAGG	474	59.28
CGTCAAGTGTAGCCTTGTGAGTT	33	57.25
TCAAGCCATTAGAGATACATACAGAGA	2536	56.63
TCAAGCCATTAGAGATACATACAGAGA	2558	56.63
GAAGAAGAAGTCGTCGGTGAGG	631	58.97
TCGCAACAAGAAGATGGACA	862	56.41
GAAGAAGAAGTCGTCGGTGAGG	631	58.97
AGCGAAGACAGTACGATGTTAGTG	258	56.52
AGCGAAGACAGTACGATGTTAGTG	286	56.52
AGCGAAGACAGTACGATGTTAGTG	395	56.52
CGTGTTGAAGTGAATCTTGCTACTC	539	58.21

CGTGTTGAAGTGAATCTTGCTACTC	292	58.21
CGTGTTGAAGTGAATCTTGCTACTC	250	58.21
CGTGTTGAAGTGAATCTTGCTACTC	535	58.21
CGTGTTGAAGTGAATCTTGCTACTC	535	58.21
GAGGCAGAGGATATGTGGCA	165	57.29
AAGGAGAGATTGATGAAGAGCAGAA	800	58.7
CAGCTCGACAATCTGGAACAG	148	57.15
CAGCTCGACAATCTGGAACAG	148	57.15
TTCCAACATGCTCTAGAATTAGGA	78	56.02
ACGCTTCCACCGTTCTCCAT	61	60.46
CACCTGAAGAACGAGAACGG	2071	56.98
TGTATCTGGAAGAGTTATCTGTAATGGA	135	57.58
GGAGACCTGCGGTTGATGTG	173	60.08
ATGTTACACCACTCTATCATCCACTG	60	57.27
GATTCGTTGGATTTCGTTGGA	113	57.05
GAATCATGGAGAACGGTGGA	49	56.94
CGACGGATAACGTGATATTGAGA	76	57.78
GCGGTTGGTACACTTGCGAA	591	60.63
TGGAATGGCGACAAGTGGTG	805	61.45
TTGGAAGGTCTTGTTGAGGAAC	1274	56.92
TGGAATGGCGACAAGTGGTG	977	61.45
TGGAATGGCGACAAGTGGTG	868	61.45
TGAGAATCACTGCACACTTGTAGC	24	58.2
TGTCAACACCTTGTCATTATAGGATT	55	56.89
GGTCTCTCCATTGCCGTTG	189	59.12
TTGAACAGCAATTACAATGGAAGC	306	59.17
GCAGGAGACGATGGATTCAAC	698	58.19
AACATTACGGAGCAGTCGCAT	109	58.34
AACATTACGGAGCAGTCGCAT	109	58.34
AACATTACGGAGCAGTCGCAT	109	58.34
TTGTTATTGCTATGATTCTGTTACGAT	443	60.1
TTGATTCTGGCAACTGCTTG	409	56.12
TTGTGTCAACTCAGCTTACTGATTGTG	341	60.55
TTGTGTCAACTCAGCTTACTGATTGTG	353	60.55
TTGTGTCAACTCAGCTTACTGATTGTG	341	60.55
GCCTCAGAGGAGCTGGTACA	317	56.66
ATTGTCTCGTCAAGATCGCAA	544	57.03
TGGTACTGTATGCTGGTACTGCTC	197	57.18
GGAGTATTGGTTGGTGCTGCT	427	57.8
GGAGTATTGGTTGGTGCTGCT	439	57.8
TAGCGATGAGGATACCAGACACT	1486	56.65
CAGATGAGATGCCGTGTGAA	1108	56.75
CAGATGAGATGCCGTGTGAA	1082	56.75
CAGATGAGATGCCGTGTGAA	897	56.75

TCACAAGAGCCGTTACATCCA	33	57.83
AACAAGTTGACGTCCAATAACAGG	76	58.17
CGCACCAGTTGTTGTTCTCA	254	56.89
ATGAATATTGCACCAACACCTG	1468	56.15
CAAGCCGATGCCTCTGACTC	307	59.53
AATGATGACATCGGACAAGAGTAG	749	56.09
ACGTCGCAACCTTCTCGTTG	345	59.87
AGTTGATCTGTGGATGTGGTGTC	33	57.49
CCAATAACAACGTCTGCCTGT	82	56.38
GGCACCATCAATGTATCACCA	146	57.74
CATTGTATATGGAGACTTCTGCTCA	475	56.36
TGGCTAACGCTGGCTCTGAC	373	60.12
CGGATAGCAGTGAAGACGATG	199	57.06
CGGATAGCAGTGAAGACGATG	199	57.06
TTGACGACGACGATGAAGATG	243	58.31
TTGACGACGACGATGAAGATG	243	58.31
TCTATTATCAATGGAAGTGGCGAA	1375	58.67
CAATATCTGGAATGAGCTGGATGC	122	60.73
AGGAGGTGGTGGATGTGGAT	280	57.68
GAGAATCTCACGATCTCAAGCAG	587	56.93
AATGAGGAGTGAAGAGGAGCA	1007	58.93
TACTCTACCACTAATTACAACAACACCA	187	56.43
GGAGTAATGATGTGACACTGGCA	1289	58.58
AATCACTTGCCATTAGAATGACAA	90	56.57
GAACGCTGACAACGCTGGAT	502	59.84
CGGAGCATGTACACCAGACA	901	56.69
CGATTGTTGTATGCTGAACTCTG	167	56.27
GTAGTCGTGCTCGGCAGAAGA	49	59.22
TCCGAGAGCCAAGATGAGCA	1560	60.59
ATGGAGGTGCATGACCTTCC	45	58.39
AAGTACATTACTCAGCAGTCTGCAA	130	56.26
GAGTGCCTCGTCTGCTACCA	502	57.64
GCAGTGGTGTCAACTATTCCTCA	769	57.86
TCCAGAGAATCCTAATGCCGAA	353	59.63
GGACAAGGACTTATCAAGGTCAACG	104	60.99
GGACAAGGACTTATCAAGGTCAACG	157	60.99
GAGGAAGAGGCGGTGGTGAT	223	60.03
TCTCAATCTTACTCGGCTCTCC	160	56.44
CAAGAGCGGCAGATAACGGT	1241	58.94
CAAGAGCGGCAGATAACGGT	970	58.94
CAGATGGAAGTTCACAAGATGGC	66	59.59
GTTATGGATTGAATCTGGCTGAA	624	56.89
TGTCTCTTATCTTCTTGCTAATGTATCG	90	57.57
TTGCATGGTTACAATCACTCATTG	460	58.54

TTGCATGGTTACAATCACTCATTG	405	58.54
AACGCTCCGAGAATTACACTAAGAAG	639	59.4
ATGCTTCGACAACAGCTTATTGG	23	59.29
CAATGGCTGATTCTTGCGAT	32	57.38
GAACGAGTCCTTGATCTCCAAC	62	57.51
CGATGAGTATGGAGGCGAGT	1736	56.42
CGATGAGTATGGAGGCGAGT	1742	56.42
CGATGAGTATGGAGGCGAGT	1591	56.42
CGATGTTTCAGAGGAGCCGAT	297	58.83
CGCATTCTCATCTACACGAACTTC	52	58.94
GACGCTGATGCAGATGCTTG	466	59.14
GGAATGGAGATGGTTGTGTCC	752	57.74
GGAATGGAGATGGTTGTGTCC	763	57.74
CTTGACGCCAGAATGAATGAC	1885	56.88
CTTGACGCCAGAATGAATGAC	1895	56.88
CAACAACAACAACAACATCCG	1151	56.09
CAACAACAACAACAACATCCG	1151	56.09
CAACAACAACAACAACATCCG	1151	56.09
GCGGTATCAGAGAGGCAAGA	133	56.71
CAACAACAACAACAACATCCG	1151	56.09
CAACAACAACAACAACATCCG	1015	56.09
CAACAACAACAACAACATCCG	1015	56.09
CAACAACAACAACAACATCCG	1015	56.09
CAACAACAACAACAACATCCG	1010	56.09
CAACAACAACAACAACATCCG	1015	56.09
CCAGGCTATGCAGCAATATGC	156	59.32
ACAGCAGCACCAACAGCAAC	774	58.53
ACAGCAGCACCAACAGCAAC	774	58.53
ACAGCAGCACCAACAGCAAC	774	58.53
GCGGTATCAGAGAGGCAAGA	133	56.71
ACAGCAGCACCAACAGCAAC	774	58.53
ACAGCAGCACCAACAGCAAC	927	58.53
ACAGCAGCACCAACAGCAAC	927	58.53
ACAGCAGCACCAACAGCAAC	927	58.53
ACAGCAGCACCAACAGCAAC	927	58.53
GCGGTATCAGAGAGGCAAGA	133	56.71
ACAGCAGCACCAACAGCAAC	927	58.53
ACAGCAGCACCAACAGCAAC	927	58.53
ACAGCAGCACCAACAGCAAC	927	58.53
ACAGCAGCACCAACAGCAAC	927	58.53
GCGGTATCAGAGAGGCAAGA	133	56.71
ACAGCAGCACCAACAGCAAC	927	58.53
ACAGCAGCACCAACAGCAAC	927	58.53
ACAGCAGCACCAACAGCAAC	927	58.53
ACAGCAGCACCAACAGCAAC	927	58.53

GCGGTATCAGAGAGGCAAGA	133	56.71
ACAGCAGCACCAACAGCAAC	927	58.53
GGTGAACCTGACAAGGCGAA	234	59.67
CATGCGGAGATCGTCGTCTC	90	60.34
CTCTATAATGCAGCAATGAATGGA	225	57.16
TCAACAGTATCAGCAACAACAGTG	266	56.67
GCATGATGGCTATCAATCGG	300	57.6
GTTTCGATTGGATGTGGACA	328	58.93
GTTTCGATTGGATGTGGACA	409	58.93
AACTTGATGTTGCTGCTGGAT	791	56.03
AACTTGATGTTGCTGCTGGAT	791	56.03
ACGCGATGGTTGATTATATTCATG	408	58.8
CAACCGAGATGTAATGAGAGATGT	542	56.09
CAACCGAGATGTAATGAGAGATGT	1226	56.09
CAACCGAGATGTAATGAGAGATGT	1326	56.09
CCTGCTGGATAATGTCATCTGGT	429	58.97
CTGGACTGCTCGTTGGAAC TG	151	59.48
ACAACCAACGGAGGAGGATAC	2171	56.61
ACAACCAACGGAGGAGGATAC	2135	56.61
CGACGATCAAGTATTGTATGACATTG	598	58.55
CGACGATCAAGTATTGTATGACATTG	608	58.55
CGAAGCGACCAGGAGCAGTC	697	61.96
CATTGTCTCATTATTGGATTGCC	1092	57.14
GTGGAGAAGATAGACTTATGATGATGGT	813	58.19
TATTATGAAGCACCGGCGATT	2075	57.43
GAGCAGCGGACCTACTATCG	39	56.3
TATCTTCGTCCGTGGTCGCA	359	61.13
TTCATAACTACCACTAGACGATGCC	34	58.84
GTTGGAGATTTCGGACGAGAGA	3385	57.92
TGGAGATTTCGGACGAGAGAA	468	56.98
TGGAGATTTCGGACGAGAGAA	631	56.98
CACAACCTCGTCGTCGTCGT	3758	60.72
GGATGTTGGTTCATCTAGTCGTATG	922	57.68
TGGAGATTTCGGACGAGAGAA	468	56.98
GGATGTTGGTTCATCTAGTCGTATG	1073	57.68
CCACTCACGAATCACACCAG	145	56.05
CCTGGTGGAATGATGACTGG	2790	57.36
AATTCTTGATTGGTGCAACCGT	242	59.35
ATCATCATCATCATCACACG	44	56.81
TTGAGATGTGCCTGAGACTGAA	34	57.13
GATCCAAGATGAGCTGGTAACAC	591	56.48
GAAGCTTGCTGATACATTGACAGA	160	57.34
TTCAATCGGCAAGTTCTCACA	372	57.95
TTATGTGGAGAATGCGACGA	556	56.34

CAGTTGGACACTTGTCTCGTGGT	460	60.07
TTGGAATTATGACAACGAAGATAGAC	607	56.69
AATTGTGAATGTCTCCAGTGTAGC	443	56.15
TGTCGTGGAGATGGTCAAGAAG	432	58.78
GGTGATTAGTTGTAGAGCGTGTGC	141	58.88
CTCATTATCATTCAATGGCGTGGT	626	60.85
ATTGGATGTATCGTGGCTCAC	792	56.09
TATAACGGCGGCTAGATGTCTG	534	58.06
GTGTCAGTTGGATGTCTCCTGGT	844	58.98
GTGTCAGTTGGATGTCTCCTGGT	850	58.98
GATTATGGCAAGATGACATGATGA	646	57.57
TTCAGTTATTGCCACATAATCAGC	767	57.08
GCAATGATTGAGCAACATCCAAG	180	60.43
GCAATGATTGAGCAACATCCAAG	171	60.43
GGATTGTTGATGTGCTATTCAAGG	1421	58.55
CTACGCCAGTGTTCTTATCTCTCA	1088	56.58
GCAAGCAACAGAGACGAGCA	165	58.91
GCAAGCAACAGAGACGAGCA	165	58.91
GTCCACGCAGACCAGTCACT	682	57.29
GTCCACGCAGACCAGTCACT	685	57.29
GTCCACGCAGACCAGTCACT	683	57.29
GTCCACGCAGACCAGTCACT	757	57.29
CAGTTGTCTTGGAGTTGATGGA	350	56.37
CACTGAACTGCGTCACTGGCT	1046	60.07
TTGTTCACTGGCTACGATGCA	144	58.93
GAGTCCAACATTGTCGCCTT	412	56.3
ACCATCAAGACAATCTCACTAGAGACT	127	56.92
AATGCTTCACATGCGACAAGA	377	57.97
AGACCTGTGGCTGCTCAAGA	6455	57.19
CCTGATATTCGGACTTCCAAC	181	56
AACGACTGCTACCTTGACGGT	47	57.48
AACGACTGCTACCTTGACGGT	67	57.48
CTCCTCCTATCCAATGCGTTAG	2336	56.69
ACTACCACCGTTTCGTGCTGT	433	56.79
CCGCTCCGAACGACTGCTAC	483	61.78
AATGTGGAGCAAGCCGAGAA	322	59.4
TTGCATATAGTGAGTATGATCCTCTTC	63	56.09
CGATGAAGAAGAAGGATGGAAGA	61	58.45
CCAAGCAATCGAGAGCAGAA	1812	57.78
CCAAGCAATCGAGAGCAGAA	1794	57.78
CCAAGCAATCGAGAGCAGAA	1733	57.78
CCAAGCAATCGAGAGCAGAA	1794	57.78
CCAAGCAATCGAGAGCAGAA	1800	57.78
TTATCTGTTGGAGGTGGTGGTT	572	57.06

TTCACCGCCGAGACTTATCATC	1269	60.04
CCTACACCAATCCAACAAGCCA	154	60.7
TTCACCGCCGAGACTTATCATC	1086	60.04
TTCACCGCCGAGACTTATCATC	1095	60.04
TTCACCGCCGAGACTTATCATC	109	60.04
TGTTACTGGCTTGGCAGACAT	691	56.97
ACCTTCTACACGGCGTCGGA	134	61.52
ACCTTCTACACGGCGTCGGA	134	61.52
CAGAAGGCTGTTAATCTTGGTGT	113	56.29
ACGTAGAACTTATGGAAGAGATTCG	525	56.15
GGACCTCTCAATGTCGATTATGATC	828	58.87
AAGGTGGCGTCAGATGATGG	1842	59.51
AAGCGAACAACACAATGTGATGA	152	59.13
TTGTGCTCTTCGAATGATCG	92	56.05
ATTGTCAGAGGAACAGGTGGAA	881	57.24
GAATCTGACAATGCCTGGAATG	1634	58.12
ATGTTCGGCAATCATCACAA	124	56.01
GGACATTCTACGGAATATGTAATCTAG	340	56.19
AAGTTGGTTGTATGGCAAGATTC	570	56.05
AGGATCTTGTTCTTCTCTCGACGAT	72	59.75
AGAATCATTGGAAGCTATTGAAGAAG	331	57.42
CACAGACTATTAATCATACAGCTGATGT	1023	56.11
GAATCAGAGGAGACGAATAACAAGT	173	56
TTGTTGGTACAGTCACTCTGGTG	78	56.4
TTGTTGGTACAGTCACTCTGGTG	73	56.4
CCACCAGCAACTCAGTACCGAT	614	60
CCACCAGCAACTCAGTACCGAT	614	60
CGATCAGGATGGAATATCATGGATT	172	60.96
AGTCCTGCTGAACGATACGG	5320	56.49
AGTCCTGCTGAACGATACGG	4961	56.49
AGTCCTGCTGAACGATACGG	116	56.49
AGTCCTGCTGAACGATACGG	594	56.49
AGTCCTGCTGAACGATACGG	5444	56.49
AATGTCGGACTGTCCGGTCTA	98	58.12
AAGAGCTGAGCGGTCATTAACTC	748	57.87
GGTCTTGAAGCGAAGCGATT	883	58.14
ACTGGTCCTAATGGTTGTGGTAA	1527	56.26
CGAGGAGTGGTTGAGGACAG	397	56.87
CCTCATCTTCATCTCTTCCGTT	147	56.14
GGTAATCAAGCGATAGTGGACAG	223	56.62
AATCCACAGGAATTCATAGTCCAGAA	573	60.05
AACCATGCTCATTACCTCCATC	559	56.66
GCTGGTATGCTCACGGTGAA	189	58.32
GCTGGTATGCTCACGGTGAA	288	58.32

GCTGGTATGCTCACGGTGAA	183	58.32
CGGTGCAAGATTAGTGTTATGG	218	56.05
CGGTGCAAGATTAGTGTTATGG	213	56.05
TCACCGACAGAGCATTTCCTT	640	56.91
TGAATGTGGTGGAGGAGGCA	519	61.02
GCCAAGAGATGAGCACGAGA	491	57.71
ACACACACATTGTATTGTCAACTGGTA	221	58.4
TTGTGGAATGGAATCTGATGTGA	45	58.88
GGTATTCGGAGAGCTGGTGTG	296	58.27
CCAACAACGAGCACAGCAGTAG	189	59.57
GCTGCCTAGAGAAGCTTAGATGC	72	57.81
CTCATCAATCACATACCACCTTACCT	38	58.44
CTACCGTCTGCGACTCTCCA	52	57.64
AAGCCTCTCAATGTGTCAGCA	80	57.15
CGGTGTGGATGTAGCTGTTCG	99	60.14
TTCTATGCACGCATGGCTAA	96	56.65
ATATACGTCTCTTAATTCATCGTCAACG	71	59.01
GAAGACTTCTGTGAGTCGGAT	22	56.23
GGATGAGTGGATACGTGGAAC	68	56.62
GAACACTGGCACCAATGTGATC	568	58.91
ATCGGCTCCACCACCATCAG	482	61.79
CGGAAGAAGACGCTCTACGAT	1272	57.34
TTATCACAACAACCACAACCACA	327	57.45
TTATCACAACAACCACAACCACA	329	57.45
TAAGAAGAATCTATGAGCACACAACA	282	56.17
AAGAAGAGAGTAGGACACCTCGAA	34	56.6
AGCAGGTCTTGAGATGACACT	1374	56.6
ATGGTAGTAAGATCATTGCTTCGG	24	57.48
ATGGTAGTAAGATCATTGCTTCGG	24	57.48
GGTATCCAGACTCACTTCAGCTAGT	26	56.11
TCAACTCCTCCGTCTTCCAA	46	56.89
GAGATACGAAGACTCAGGTCAACA	28	56.3
TTGCCGTCACTGTTCTTGCT	988	58.1
GACAAGTTCACCTCGCTGAGA	748	56.71
GACAAGTTCACCTCGCTGAGA	766	56.71
ATATGTACGATGGACTCGCAGAGA	1173	58.79
TTCATTCTTGCGACGTAGGTC	133	56.59
ATATGTACGATGGACTCGCAGAGA	1357	58.79
ATATGTACGATGGACTCGCAGAGA	1184	58.79
ATGATACCTGTGGATTGTTTCGGA	1089	59.19
TGGAAGAGGATCTGCGAATG	187	57.42
CGGCAAGAGTGTGGTCAGAG	640	58.03
CGGCAAGAGTGTGGTCAGAG	394	58.03
CGGCAAGAGTGTGGTCAGAG	379	58.03

GACAAGACTCAAGCAACAATGG	283	56.09
TTGAAGATTGCTTGGAGAACCG	271	60.17
AAGAATCCGAGTCAACGCCAA	1178	60.55
AAGAATCCGAGTCAACGCCAA	1155	60.55
AAGAATCCGAGTCAACGCCAA	1163	60.55
AAGAATCCGAGTCAACGCCAA	776	60.55
GAACACTACTCAGCACTCAGCAA	68	56.08
TTGGTTGCACCTAATGGAGACC	526	59.81
GTGGAATGTGGTTACGAATTGC	172	57.97
CTTAATCTCCAGGAGCCACACG	201	59.72
CTTAATCTCCAGGAGCCACACG	213	59.72
GCTGGAAGAGGAGGAAGAAGA	1500	56.43
GCTGGAAGAGGAGGAAGAAGA	1552	56.43
GCGAGCAGGAGTGGAATACG	1152	59.43
AATTCATGCGCTCATCAACAAC	114	58.7
TGAACTTCTATTGTGATACTACGTGGAT	890	57.53
CTGGTCTCTCCACAGCTCACC	63	58.48
CGAGACGGAGGTATAGTTGGAT	437	56.03
TTCTCACCGTGTCTACTATGTTGG	807	57.01
ACGCTGTAATCGGTCCATCA	100	57.63
ACGGCACTGATTCAATGGAT	531	56.51
GTTGTCCGTTGCGTCACTCA	634	59.3
TTGAAGTCACACAACAGTACATGGATT	713	59.73
AATAGTGTGGATGCTGTGGTTCT	287	56.42
ACACCTCGTATCACTTGAGCCACA	139	61.74
TAATATGGTTGGAGCATTGTTCA	557	56.95
TGTTCCAATGCCAATTCCGA	145	60.78
TTGGAGACAAGAAGAAGCAGCT	578	57.12
TGTTCCAATGCCAATTCCGA	139	60.78
TGTTCCAATGCCAATTCCGA	412	60.78
CGAATAATCCAACGGAGAGATC	944	56.46
TCTACACTCTTACACATCAATCATC	101	56.15
CATCTGCGACCAGGAGCATA	435	58.42
CCGTGGCTGTCGCTTCATAC	840	60.23
CCGTGGCTGTCGCTTCATAC	840	60.23
CCGTGGCTGTCGCTTCATAC	834	60.23
CAGAGCCAAGAGGAGAAAGTGAT	3092	56.38
CAGAGCCAAGAGGAGAAAGTGAT	3080	56.38
CAGAGCCAAGAGGAGAAAGTGAT	3068	56.38
GCTGCGTTGACTTCAGATAATGC	168	59.88
GCTGCGTTGACTTCAGATAATGC	405	59.88
GCTTCTTGCTCTGCTCTCATTC	27	57.2
CAGTAAGCAGTGTACATATAACAGTTCG	61	56.69
CGTCAATAGAGAAGAGCAATGGA	235	57.28

GAGACAAGCATTCTGAATACGC	357	56.25
AATAATGCTTCCAAGAGAACAGTGC	670	58.9
ACTCCAGAATCAAGAACTCCTCCT	332	57.62
ACTCCAGAATCAAGAACTCCTCCT	266	57.62
ACTCCAGAATCAAGAACTCCTCCT	331	57.62
TTGTGTTGCTCTTATAATTGTCCTT	1209	56.52
GTTGGTGTGATGACTCATGTGGT	530	59.65
GCGTTCCTAGTTGGTCTCTCAA	678	57.24
TCTGGATGGAGTCTGGAGTCA	658	56.79
TCTGGATGGAGTCTGGAGTCA	732	56.79
TTACAACCATGCTCTTCCAACC	319	57.72
AGTTGAAGAGAATGCGGCAGAAG	255	60.81
CAATGTGTGTCACTGGTGGAAT	511	56.88
AGTTGCTGAAGAGTTGAAGGCT	269	56.18
GCAACCGTCGTTACAAGTCG	518	57.89
GCAACCGTCGTTACAAGTCG	710	57.89
GCTGGTGCCGATAAGTGTGT	444	57.29
GCTGGTGCCGATAAGTGTGT	444	57.29
TCGCCTGTGATACTCGGTCT	584	56.94
TCAGAGCAAGAGGAACCGAA	657	57.2
TCAGAGCAAGAGGAACCGAA	534	57.2
GAAGCACGTCCAGATCCAAG	2097	56.91
CGCACTTGGATCTGCTATTCTTG	77	59.86
TGTAGTGATGAATGTGATGAAGAAGG	935	58.25
GCCATATTGCGTTCAATGAGC	467	59.17
ATGAGAGAAGAGCCAACATTGC	71	57.18
GTCTCATCGGTCACATTCCTTC	672	57.17
TTGATTGGAGTTGCCTATCCG	269	58.64
TTGATTGGAGTTGCCTATCCG	325	58.64
ACTCGTCCGTTGAGAACTGAA	771	56.1
TCGAAGTTGCTCTTACGAGACA	252	56.55
GCATCGGTTACGCAATCGGT	93	61.69
TGCTGGATTCACTGTCCGAT	313	57.68
AAGGTGTCATGTTGAACTGTCATG	184	57.64
CCGGTCATGTTGAATTGTCA	176	56.38
GTCACAGGAGTCATGTACAGTGTAGA	704	56.19
CGAATGTTGTCAGCACCTCA	186	56.82
CGTTGTCAGGACCTGCACAGT	682	59.78
CGTTGTCAGGACCTGCACAGT	682	59.78
CATCCTGCTATCTTCTATGGACCA	333	58.29
TCTATGATGAGCCGGCAGAG	93	57.6
TACGTGTAGAGCATTGGAATTGG	85	57.83
AACAACAGCCTCAGCAGCAA	2266	58.25
AACAACGTGAGGTACGAGCGGTT	80	62

GAATGATTGTCTATGTAAGTCCAACCAG	431	59.28
TCTACTCCACAACAACGCCTAA	1023	56.25
CCACAATATGTATGACAATCCGA	1376	56.08
CTCAGATGGACAAGATTGCCGTA	859	60.08
AGTGTCACTAAGTACTGGACTCGTCA	557	57.21
TATATCCGTTACACCAAGCATTGAAGT	80	60
GTTCTCACCACACTTCTCA	689	57.45
ATGCTGCTCTTCCATAATCCA	1165	56.03
ATGCTGCTCTTCCATAATCCA	1150	56.03
ATGCTGCTCTTCCATAATCCA	1140	56.03
AACGGAGTCCAGGTTGACTACG	181	59.14
GTTCTGGCTCGCTCTACATTC	580	56.26
GGAAGTCTCACTCAGTCTCACAACA	777	58.57
GGAAGTCTCACTCAGTCTCACAACA	777	58.57
AATGAGGATCCAGCAACAGG	773	56.23
CACGATGACCACGAGGATTG	2585	58.52
AATGAGGATCCAGCAACAGG	773	56.23
TTGGAGGAGGAGGAGGATGC	2809	60.11
AATATCATTGTCACTTACTACAAGTCA	783	56.49
GCTTCCACATCGCCATAGAG	495	56.98
GGAACAAGTCCATCACTTGAGCT	204	58.39
AACCATTCAAGACGCAACAGAA	118	56.94
CCAGCCGTGCTATCAGATGA	81	58.42
CCTCCATCAACAAGCACAGAA	816	57.4
CGACGAGACTCCACCACCAA	308	60.66
AGAGAGACTATTCTTGAACGGATGC	187	58.19
TGAAGCTACCAAGTATGCCA	147	56.45
TGAAGCTACCAAGTATGCCA	240	56.45
TCAAGTCAGCCGATTGGATG	109	58.24
CCACCTCCTCCACGTCAGAA	805	59.66
GAAGATGATGGTGAAGGAGGAGA	724	58.27
CTTGGAAGTGTGCAGAGTATTGTAAG	109	57.42
AAGTCACAGAGGTGGAATTGCT	526	56.56
ATGTTGGCGATTCAAGCTAT	57	56.81
GGATGATGTGAGCCGTCGTA	403	58.12
GCTTCAATCGGATGACCTGT	423	56.23
CGTTGTCATTAGGAAGTGCCT	733	56.53
GACCACCGCCAGGAAGTAAG	161	58.25
GATTGGCTGCTCTTCAACACA	128	57.55
GCCGAATCAATGAACGGTTAC	298	58.05
GATGGATTCCGATTGATGGT	1027	59.57
GATGGATTCCGATTGATGGT	792	59.57
GGATGATGATGAATGCGTTGA	213	57.96
AAGTGAATATGAAGAAGCACAAAGAGA	524	56.68

AAGTGAATATGAAGAAGCACAAGAGA	656	56.68
GCATTCACCGTGACATCGCT	1056	60.64
GCATTCACCGTGACATCGCT	897	60.64
TTGGATGAAGAGGAAGAGGAAG	1057	56.27
TTGGATGAAGAGGAAGAGGAAG	699	56.27
ATTGATGGATATGATATGGACAACACT	1360	57.78
ATTGATGGATATGATATGGACAACACT	1429	57.78
ATTGTGGATAGCATTGAACGACT	819	56.47
TGCAACTATTCATCCAGGTTGG	736	58.56
GGAGCTGTTGAGGACGATGA	742	57.39
TGATATTAATCCAGCAATGTCTCC	285	56.07
CCACAGCCACTTCTTGGTATG	168	56.82
AATAATAATAGAATGCCACGAAGACG	241	57.93
GTGGAATGGTCAGAAGCGAT	2335	56.23
GTGGAATGGTCAGAAGCGAT	2357	56.23
GTGGAATGGTCAGAAGCGAT	2235	56.23
GTGGAATGGTCAGAAGCGAT	2086	56.23
TTGAAGCAGAAGGAAGAGCGA	1971	58.92
GCAGCAATCGTCATCATGTCA	533	59.25
GCAGCAATCGTCATCATGTCA	533	59.25
AATTGAGACAGCTGGTTGAAGAG	681	56.43
AAGAGGCTATGACTTGCATTGAAG	764	57.82
AAGAGGCTATGACTTGCATTGAAG	764	57.82
ACGCAGATGGTTAGAAGTGTC	64	56.97
CCACTGTGTCTCTCGCACTATC	46	56.15
CTGCCAACTTACCACACGAAC	190	56.88
ATTGCGGTGCTCTACCACAT	148	56.77
TGCGTTCACTGTTCTCTGTTG	87	56.89
CCGTCAATGGTGACTGGAGGT	79	60.75
CTACACAACGAATTAGTGACTATGAGAA	37	56.27
TCTCCGACGTACGAGTCCCTT	88	56.05
GGAGAATGGCGAGAGAAGAAG	194	56.84
TCTCGAACAGAGGCGTGGCT	59	61.96
CGGTCCGATCACTGAGAGAT	51	56.26
GTTCCAACGTCTGTTCAAGTTCT	341	56.2
GTTCCAACGTCTGTTCAAGTTCT	233	56.2
CCTTGATGACGTGGTCTTCC	54	56.59
GCTTACAGTCGCATGGAGTTG	80	57.12
ATTAAGCCGCTGATAGAAGAGATC	140	56.28
GCTTACAGTCGCATGGAGTTG	101	57.12
TGCTGATCGTATGCAGAAGG	970	56.08
CGTCTTCACATCTTGCCACA	45	56.82
CGTCTTCACATCTTGCCACA	41	56.82
TGCTGATCGTATGCAGAAGG	976	56.08

TGCTGATCGTATGCAGAAGG	990	56.08
TGCTGATCGTATGCAGAAGG	970	56.08
TGCTGATCGTATGCAGAAGG	1072	56.08
TGCTGATCGTATGCAGAAGG	970	56.08
TGCTGATCGTATGCAGAAGG	983	56.08
AAGTTCAGAGAACTGATAAGCTACCAC	83	56.77
TGCACTACTCATTGTTGTCTGAAT	58	56.11
TGCACTACTCATTGTTGTCTGAAT	58	56.11
TTGTATGGACGGCTGCTGTA	183	56.44
AATGGCATCGTATGTTCTGACA	105	57.57
TATGATGAGATGAATCCAATGTAGAAG	84	56.65
GATCACGAAGTGGCACTGGAC	147	59.16
GATCACGAAGTGGCACTGGAC	147	59.16
CCGATCATCATACTTCTTATGATAATGG	824	59.12
GACAAGTTCCAGACGGCAAG	178	56.98
GGTTGATGGAATGTGATGGAA	94	56.75
TACGCCGCAGAGGAGATGTC	76	59.94
TTGGACTTGCTGCTGGATGC	242	60.61
TTGGACTTGCTGCTGGATGC	241	60.61
CAACTCTTCTGTAAGCAGTGTCATTG	191	58.26
TTGGACTTGCTGCTGGATGC	240	60.61
GCTCACAACCTCCACAACCA	1654	58.14
GCTCACAACCTCCACAACCA	1687	58.14
GCTCACAACCTCCACAACCA	1654	58.14
GCTCACAACCTCCACAACCA	1692	58.14
CAAGTGACGAGGAAGATGAGAAC	128	56.7
CAAGTGACGAGGAAGATGAGAAC	128	56.7
AAGAAGGAGAGGCAGAGGAGA	50	56.03
AGGTAGAAGTTGTTCCAATCAGAAG	90	56.07
ATCCAGATCGCCTGCTCCAT	824	60.53
GCCTGCTCCATCGGATATGAGT	28	61.25
TTCAGATCGCCTGCTCCATC	831	59.88
TTCAGATCGCCTGCTCCATC	831	59.88
TCTTCTTCATCAACTGCCAACG	8698	58.96
CTGTGAGCGTGGCGAGATGT	70	60.98
CCATCTTGCTCAACTTCTCCA	1251	56.6
TCTTATTCATTCAATTCATTCAATTG	108	58.46
AAGTGTCGATGGAGGAGACG	1726	56.33
AAGTGTCGATGGAGGAGACG	1333	56.33
GAAGTTCCGTTCTTCTTATGAATCTATC	834	56.21
GAAGTTCCGTTCTTCTTATGAATCTATC	832	56.21
CCGTTGTAGCTGGAGTTGTCG	258	59.38
GAAGTTCCGTTCTTCTTATGAATCTATC	832	56.21
ACGAAGGCTCAATGGTGGCT	262	60.59

ACGAAGGCTCAATGGTGGCT	211	60.59
GCACAGAAGAGAAGACAGAAGGC	130	58.41
AATGATGGCTCCAGACAGACG	87	58.75
TTCTACGCAACATTCTGACACAC	186	56.59
GGTCGGTCAAGGCAGAGTAGA	1905	58
TTGTTGATATTCTGGATACAATTGCTAG	941	57.97
TTGAAGGCTCTTACTCACACTCAT	317	56.04
AATGCCTATGGTTATGTCAATGC	148	56.76
AGTATAGAAGAGAGGAGGTCAACGG	68	57.34
CTGCTCTTGGATTGAACTCTCTTG	515	58.33
AAGGAGAAGACAACCTCTGCCAA	437	56.83
GACACACGCTATGGAACTCACC	24	58.19
ACCGTAACTGCTGCGATAGATG	436	58.05
TAACATCATCTCGCCATCACTTG	2208	58.71
GATGTCAGCATCCGAGCCAT	860	59.62
GATGTCAGCATCCGAGCCAT	431	59.62
TTAGCTGCACTCGTAGGAGTTGC	84	59.69
CTTATTGTGGCGGATATGGTG	85	56.64
TCAACCACCATCAGTGAATAACC	382	57.45
CATATGGTGGACAGCCGGTT	148	59.26
AGCTGATGTCAACTACGTCCACA	527	58.39
GACAGACTGTTACAGAGTTCCG	129	58.45
TTCTCATCAAGGAGATTACGTTGCT	431	59.31
CCGACAACGAGAACCATCAC	379	57.58
ATTCGTTGGCGTGTCAGTAGA	177	56.97
AATGCCTGATATGCCTGTTAAGAAG	188	58.79
GCTAGGTGGTCTGCTCACGA	88	57.64
AATTGTTTCGTCCAGGTGTAGTGA	37	57.28
TGAGCAGAATCATCAGCCACT	146	57.08
TGAGCAGAATCATCAGCCACT	161	57.08
GTGAAGGACAGCCAGCCAGT	135	58.9
AAGTGGAAGGAATGGCTATCGT	3693	57.79
AAGTGGAAGGAATGGCTATCGT	3693	57.79
AAGTGGAAGGAATGGCTATCGT	3756	57.79
AAGTGGAAGGAATGGCTATCGT	3756	57.79
TTAGCAGCTCCAGAAGATCCG	698	58.29
TATGGCACAGCAACTCAGCA	217	57.6
ATACTCTCCACGAATGATACCGA	474	56.42
CAGATGGAATGAGAATGAGAGGA	799	56.96
GCAATCCAGGAACCACTCAA	1130	57.17
GATTCCGTCCAGTCTACCAGTCA	5497	59.09
CAACAGCAAGTCACGCCACA	638	60.47
GATTCCGTCCAGTCTACCAGTCA	4442	59.09
GATTCCGTCCAGTCTACCAGTCA	5701	59.09

GATTCCGTCCAGTCTACCAGTCA	5602	59.09
CAACAGCAAGTCACGCCACA	563	60.47
GATTCCGTCCAGTCTACCAGTCA	5648	59.09
GATTCCGTCCAGTCTACCAGTCA	5648	59.09
CAACAGCAAGTCACGCCACA	563	60.47
CAACAGCAAGTCACGCCACA	563	60.47
GATTCCGTCCAGTCTACCAGTCA	1736	59.09
GATTCCGTCCAGTCTACCAGTCA	5818	59.09
GATTCCGTCCAGTCTACCAGTCA	6001	59.09
GAAGAGCGAATCCGTCAGTG	502	57.07
GGAACGATGTAGACGACAAGGT	131	56.83
ACAACACCAGAAGCAACTATTCAACA	357	59.95
CTGGACAGTTGGTAGCAGTAACAC	62	56.7
TGGTTCTTCTCATCGCCTGT	438	56.91
TGGTTCTTCTCATCGCCTGT	380	56.91
TGGTTCTTCTCATCGCCTGT	293	56.91
GCATCATCCAATCTTGATCATCT	23	56.73
TTGTTGGACCATTGCACTTCA	269	58.61
TTGATGAGCCAGAAGGAGAACT	476	56.77
TTGATGAGCCAGAAGGAGAACT	274	56.77
TTGATGAGCCAGAAGGAGAACT	231	56.77
AAGGAACGAGAAGAAGATGAACG	218	57.72
AAGGAACGAGAAGAAGATGAACG	229	57.72
CGAATCAATGTCTGAAGACGAGGA	268	61.39
CACAATGAACAACAATAAGATAACGA	604	56.25
CGATGGATGAACTAGAAGGTGTC	743	56.48
CTGCTCACGTTAGCTCATTCAAG	258	57.97
TCTCTCTTCCAATTCTCTTGTTACTGA	38	59.2
CAGTTGTTGCTCCTCATGTCC	1465	56.83
CATGCACACATCAATATTATCTATGCA	66	58.9
TTACGGCAGTCAAGACGACA	95	56.52
GCACTCTCTCTGTTCTTGGA	79	56.86
CACGAGAAGACCTTGAACGG	42	60.6
TGAAGTTATTCCAGAGAATTGTGTTCC	216	59.77
TCTGTTCTTCTCCATCGATCATC	95	56.96
CCACTTGAACGATATACACACCAA	90	57.62
AATTGCTAGTCATCATGCTCTTCAAC	958	58.91
AATTGCTAGTCATCATGCTCTTCAAC	870	58.91
AATTGCTAGTCATCATGCTCTTCAAC	826	58.91
CGAACAACAGGAGACGTACAAC	583	57.1
CGAACAACAGGAGACGTACAAC	495	57.1
TATGATTGGATTGAAGTCAGTTGG	548	56.83
TGGCATTGTTCACTTATCAATTCTTC	927	59.66
CCTGTGGATTAGTGTTGGCAT	66	56.16

GGAACCTGCTGAATGTCCAA	676	57.17
ATTATTATGGACGACTTGATTGGAA	382	56.86
GGATGGAGTGCATAATGTCATTACAG	175	59.64
GCATCTTATGGAGGAAGTCTAGTGAA	182	58.12
ATCAGGATGTAAGTCAACTGCTCTT	168	56.46
TTCTACCAATGAAGTTCAAGAAGATTC	63	57.33
CGAGAATGAGTGGAGAAGTTGG	34	57.53
CACTGAGAGGTTCTTGCGACT	263	59.51
GTCGTGTGACTGGCTTGAA	1207	58.29
TGGCGGATACAACGATAATGAC	122	58.45
GAATCCACGATAATTCAATTATGACC	705	57.88
GAATGAAGGAGGTCACGGATG	1338	58.04
GAATGAAGGAGGTCACGGATG	1390	58.04
CTATTCTTCTTCTGCTCGTTGCC	131	61.41
GGCAGCGGTGAACAATGAGT	1450	59.7
CAGGCTATGGAAGATTGAAGAGG	921	58.04
GTGCCTCAACTGGAAGTACGGTA	402	59.18
CGGTCGTTGTATTGGTCGCT	335	59.58
ACAGCGAAGAAGGAGGCGTT	443	59.97
AACGTCCAGGCATCGCTCAT	58	61.51
GCCAACGGATCACTGTCAAG	746	57.74
GCTCCAGCTCTTGATGATGACT	165	57.23
AACAGCCAGCAACATCAGCA	367	59.03
TCTTGTTGTGGAGTCTAATCAATGGT	786	59
AATAACTGATTTCGGAGCTGGAA	270	56.66
TTCGGCAGTTATTGGAGGAGA	71	58.38
AAGAAGAGAAGCCAGTTGAGACA	1017	56.17
CATCGGAGGTGACCTGAACT	127	56.17
ATTCTGCTGCCTAACTGACGA	323	56.35
CGTCCTATGTTGACTACATTGGAA	209	56.91
GCAGTTCAATGGTCGTTGAGC	93	59.32
ATTGTAGTCGTCAGTTAGGCAGCAG	34	59.85
AGCCTTCCATCCTGTTTCTCT	327	56.42
CCTGTGGATTCTGCTGCTCA	353	58.55
AATACCGTGATACAGCGTTGAAG	1029	57.06
TCCTCTTGGCTTCAGTATGGCT	879	58.98
AACTGCGATTATCTTATGCCGAT	76	57.9
CTTCTGCTGTGATTGGTGGAG	70	56.99
GATGTATCTGCAGTTATTGGAGGA	69	56.15
GCTATGTCTATCACTTGGAGTTCACA	736	57.63
CCAACAGCGACAATCAACGG	388	61.02
GCGGCGAGATGCACATACAC	177	61.18
GTGGTGGTAGAGACATCAACGACA	672	59.91
AAGAAGGTTGATCCAGCACCA	393	58.24

CTGATGAGATGGCTCATGTTAAGAAG	820	59.32
CTGATTCGAGTTAATGAATGGCA	143	57.89
TACTCTACCACCAGACGCTTGT	861	56.77
TTAGTGGCATTTCATCTCGTCAG	766	56.61
AAGCCACTACATCTCAACTCAG	1135	56.31
CCTCGCAACAAGACGCCTCT	228	61.41
GGAACGCCATCAACATTACAC	38	56.55
GCGACCACAGAGAACTGCTC	349	57.19
GCGACCACAGAGAACTGCTC	347	57.19
GCGACCACAGAGAACTGCTC	349	57.19
AACATCTCATTCACTTCCGACTC	440	56.07
TCTCACGATGGCTATCAATAATGG	221	58.99
TTACTACACGCTTCTTGGTGATGA	571	57.64
GAAGTCTCATTGCCATCCGT	112	56.23
ATTGATTCTTCGGCTATTGATGTG	1938	58.21
ATTGATTCTTCGGCTATTGATGTG	1938	58.21
ACGCCGACGATCACTTGTTG	60	60.66
AACCGTATTGTAAGACTAGATCACGTAA	215	56.95
GCTTCTGGTATCAACATCAACTCA	3059	57.07
CGCCGATGCCTTGTTATCAAC	175	61.28
GTTACGTTCTTCTGGCAT	757	56.3
TTCAGCCAACAGGTAGTCAGG	954	56.55
CACAACTGATAACACCTGTCAACTC	278	56.55
CCGACTTCCTATTAAGATTCATTCAG	804	57.64
AATTCATCGACAGAATTCCTATACCT	85	56.67
CGAATGCTTCAGGATAATACAGAA	53	56.4
CAACTTGGCTCGCTATGCTT	544	56.9
CAACTTGGCTCGCTATGCTT	597	56.9
GAGAGAACAGTCGTCCAACATCAC	328	58.77
TGAAGAGATAACTACTACGAAGAGACCA	1189	57.22
TGAAGAGATAACTACTACGAAGAGACCA	1189	57.22
CGTCTGTGGCGTTCTTGATG	529	58.88
ACGAGCACACGCACGACAAC	88	61.89
ACCGTCAGAATCGTCAAGCA	303	57.89
TACATCAACTCTGCACATTGTCAA	215	56.99
GCGGCATCAAGAAGACAATC	124	56.95
TTCAGATCTATCCTCTACGTTCCAA	1215	57.23
AACAACGATTGAGGAGGAGCA	2377	58.38
TTCAGATCTATCCTCTACGTTCCAA	994	57.23
AACAACGATTGAGGAGGAGCA	2156	58.38
TTCAGATCTATCCTCTACGTTCCAA	1201	57.23
TTCAGATCTATCCTCTACGTTCCAA	1068	57.23
TTCAGATCTATCCTCTACGTTCCAA	1135	57.23
TTCAGATCTATCCTCTACGTTCCAA	1091	57.23

TAGTTGAGAATGTTGGTGTAAATTGATG	635	57.4
CCGACGGCTAGCAATGTCAC	71	60.23
GACGTGGAAGTTGACTATCGAGGAG	346	61.26
AAGAATGAGAATCTGACATTGGCT	201	57.13
ACACGGTCAAGTTGCTTACTCTG	307	57.25
AACTAAGGAACTTCATCGGCAA	732	56.72
TTGGCTGTTCTATCAACGCAT	517	57.01
TTACAGAATTGGCTATGACTTATCGA	498	57.29
CGGTTCAAGGTAACAGATCAGC	875	56.04
CGGTTCAAGGTAACAGATCAGC	875	56.04
ACCTATCCAGTTCCTTACTTCCTGATC	466	56.4
GTTCCAACAATTCAATCCTAGTGG	621	57.64
CGTGCGTTGTGGATCTGTAC	131	56.22
TGATTCCAAGAGATTACAAGATTACAC	701	56
GACACCGACAACAAGTATTCCA	1029	56.21
ATATCAATTCCTTCTACGATGAGGTT	162	56.67
GTTGACTCGTGTAGGAACAATCG	1919	57.42
TGCTGCTGCTGTTCACTACC	56	56.25
ATTACTCATTCTCACCTAACATTCTCAA	176	56.89
ATACACAATGAAGAACCAACCACTG	483	58.05
TTCCTCCAATCCTTCGTTCCAC	74	61.11
ATATTGGTGGAATCGTCGGA	717	56.42
GACGCCACTGGAGCAGCTAC	742	59.6
TTGATAACATGCTCTCACTTCTTGA	1078	56.92
AATTGTGCAGTTCGAGGATCA	714	56.88
AAGTTAGTCAGCAATTGGATGAAGA	130	57.28
GCTGGAGTGTTACATATCTCTCTG	1597	58.11
GCTGGAGTGTTACATATCTCTCTG	1615	58.11
TCTGCGGAGTGTCATATCAATC	1257	57.95
CTGTTCAAGCAACTCGAGAAGATC	335	56.99
CTGTTCAAGCAACTCGAGAAGATC	545	56.99
AATGGACCACGAGGCTCTTC	557	57.79
AATGGACCACGAGGCTCTTC	557	57.79
CACCAATCCAAGCGTAACAAG	332	56.92
ACAGAGAAGGCGGCAGAGTC	1868	58.22
CGGATCGAGCTGCTCAGAAC	867	59.68
TGCAATCACTCCGTTGGATA	317	56.18
TGTCCATTGCCAGACGATTG	575	59.08
ATGGACTATGTTAATCGGAATCTCG	25	58.51
GCCATATCTTCGGTGCTCAT	285	56.32
GCCATGTCTATTCTGAGACTAATTGCTA	388	59.3
TATCAGTGTGGCTTGCGTCA	379	61.18
AATCGTAATCTTGGCTTCGGA	100	57.45
CTCTTCGCAAGAACGAGCAC	146	57.44

CTCTTCGCAAGAACGAGCAC	106	57.44
CTCTTCGCAAGAACGAGCAC	88	57.44
CTCTTCGCAAGAACGAGCAC	22	57.44
CTCTTCGCAAGAACGAGCAC	78	57.44
AATAATGTGTGATGTGGCGACTT	40	57.19
GCCGACAACAACACGAACAG	432	58.78
ACGAAGATAGTTGGACGGCAGA	417	59.73
CGATGGTTGTTGCCAAGAGA	24	58.3
GGCGAAGGAACATACGGAGT	106	57.74
GGCGAAGGAACATACGGAGT	146	57.74
TGCAGTGATTCCAATATTCGTAA	36	56.09
GCTCACGGAGTTCCAATCATC	252	58.19
GCTCACGGAGTTCCAATCATC	256	58.19
GCTCACGGAGTTCCAATCATC	222	58.19
GCTCACGGAGTTCCAATCATC	256	58.19
ATTGTGATTACTGGAAGTGAGAGAGC	280	58.12
ATTGTGATTACTGGAAGTGAGAGAGC	319	58.12
CTCGCTTCTCTTACACCATCG	630	56.35
CTCGCTTCTCTTACACCATCG	451	56.35
CTCGCTTCTCTTACACCATCG	437	56.35
CACTGAATCTAGCAAGTTGAGCA	1285	56.15
CACTGAATCTAGCAAGTTGAGCA	1285	56.15
CACTGAATCTAGCAAGTTGAGCA	613	56.15
CACTGAATCTAGCAAGTTGAGCA	613	56.15
CGTCGCAGAGCTTCTCAGTG	1661	58.5
CGTCGCAGAGCTTCTCAGTG	1655	58.5
GTGGTCATCCGAGTGGTTGG	1380	59.79
GCATGACAACAATTGCAGAGAC	734	56.95
TTGAAGGCTGAAGAGTTGGAA	198	56.29
CCAGTCGGTCAGGCAGGAAG	728	61.68
CCAGTCGGTCAGGCAGGAAG	704	61.68
AATGGACGAATCAGGAGCAG	1282	56.39
AATGGACGAATCAGGAGCAG	1285	56.39
AATGGACGAATCAGGAGCAG	1282	56.39
AACGGAATTGTTGGAGCACA	528	57.66
AACGGAATTGTTGGAGCACA	525	57.66
AACGGAATTGTTGGAGCACA	862	57.66
AACGGAATTGTTGGAGCACA	555	57.66
TAATGTCGGACCAAGGAGAGAG	476	57.04
TAATGTCGGACCAAGGAGAGAG	247	57.04
TTATATGATATGAATGAGGCTGAAGAAC	730	57.2
TTATCCGCAGATCATGGCTT	811	56.87
TCGTCTTGTTGGATTCTGGTTA	153	56.01
CGAAGTGAACGAGAACAGGAG	281	56.27

CGAAGTGAACGAGAACAGGAG	228	56.27
ACCAAGTTCCAGCTCGCCAA	199	61.63
ACCAAGTTCCAGCTCGCCAA	199	61.63
ACCAAGTTCCAGCTCGCCAA	225	61.63
GCTTCACAGAGGATTCTTCGG	1306	57.61
GCTTCACAGAGGATTCTTCGG	1319	57.61
GCTTCACAGAGGATTCTTCGG	1306	57.61
GCTTCACAGAGGATTCTTCGG	1319	57.61
GCTTCACAGAGGATTCTTCGG	1306	57.61
GCTTCACAGAGGATTCTTCGG	1319	57.61
GCAGTCGGTATCGGTGTCTC	152	58.27
AATTATTACGAGGAGGCTACGAAG	535	56.21
AATTATTACGAGGAGGCTACGAAG	503	56.21
AATTATTACGAGGAGGCTACGAAG	535	56.21
GGTTCGGACAGCTCAGTATCACT	112	58.41
ATGAGACCACGACGGCTTGA	3374	60.23
TTCCGTGTATGGTATACTGTAAGCA	727	56.66
GGTATACAGTCGATAGACCACCAGT	757	56.46
GGTATACAGTCGATAGACCACCAGT	794	56.46
ATGCTATTGGCGGCTTGTTT	1605	58.79
ATGCTATTGGCGGCTTGTTT	1710	58.79
AAGCAATCAATACTTCATTGTATCTCTG	434	57.34
AAGTTCCAGTTGGCTCCGAGA	1222	59.82
AACACTGCTCATTGGAACGAC	50	56.38
TGGTTCATCCTACTCTTCTTCTTCTACA	71	58.98
GATGACGGAAGGAGCTGCTG	2415	59.53
GATGACGGAAGGAGCTGCTG	2410	59.53
GATGACGGAAGGAGCTGCTG	1675	59.53
GATGACGGAAGGAGCTGCTG	1675	59.53
CAAGGTGTCAATGGAGGAGTTC	104	57.24
CGAGGAATGGAGGACTAGAAGA	249	56.3
TGAGCTGCTTGTTCCAGTGG	193	58.6
GGCGTGCGATAGGTTACAGG	382	59.19
TGATGAGAGACTGATAATGACTGATGA	1015	57.98
CCACCACCACTACTACGGAGGA	1565	59.86
CACCTGAAGCAAGCACCGTT	1752	59.87
ATGTCCACCTCCACTCAGCGA	27	61.58
TGAGTTCACGAGATCCTCCAC	763	56.31
TGAGTTCACGAGATCCTCCAC	763	56.31
GAATAAGACATCAACGACAAGTCCTAA	29	57.99
CGATGAATGCTGCTTCTCT	254	56.71
GTTCTCTGCTTGGCCGCTGT	73	61.42
TCGTTGGTTGGCTATTGAGAC	899	56.44
TTCAATCGGATCGGAAGATG	1007	57.14

ATGATTGTGACGGAATACAAGGTT	936	57.53
CACTTGGAATGGTCGGCTTG	621	60.06
CGCCAATAACTCTACATTATCCAGA	60	57.56
ATGGTTATGATTGCCGAGTGGT	649	59.2
ATGGTTATGATTGCCGAGTGGT	649	59.2
GTGCTGTCAGACTTCTTCTTACAGTTGT	387	59.49
ATGATGATTCCGATGAGTACCTGA	487	58.46
TTCGGAGATTACGGATGTGC	860	57.23
GGTGTCTATCATGCCGAGCT	141	57.9
AACCTATACTCACCTACTTGCAACTATG	1316	56.64
TATGGTTCTCCTAATGTTGGTTCTC	108	56.59
TTAATAACGGTGCATTATTCGACA	861	57.39
TTAATAACGGTGCATTATTCGACA	861	57.39
TATAATGTTGTATCGGATGACGAGTG	1050	58.1
AATGCTTAGATGCCGGTACGAA	31	59.6
CTGAGTGAATACGCCGAAGAG	1206	56.35
CTGAGTGAATACGCCGAAGAG	1187	56.35
CTGAGTGAATACGCCGAAGAG	1199	56.35
CGAGTGTGTGAGGATGTTGAAGC	121	61.85
GCCTCTGCTCACAACGGATA	778	57.51
ATCAGGCACTGGATAAGCACA	319	56.91
AGAATGACATACTCAACCATCAACA	124	56.39
CTCTGCTAACCGAGTGGTTCTGC	48	61.22
TCGGATGGTGGATACTGTGG	907	57.81
TCGGATGGTGGATACTGTGG	907	57.81
GAGGAAGAAGAGGATGATGGAA	9220	56.04
GAGGCTGTAGCTGATGAGGATT	667	56.31
CGTCTCGCCGTTCTTCAGTT	1018	59.07
ATCTGACAGTTGCAGCAGTGTT	1054	56.21
ATAACGCTAACAACGAGGAGGCA	463	60.9
ATAACGCTAACAACGAGGAGGCA	526	60.9
AATCTACACAAGTCCGTCATGAAC	310	56.01
GACTGCTCAAGACTACCTCAACG	26	56.93
GACTGCTCAAGACTACCTCAACG	199	56.93
ACTACTCCAAGCCACCGCCAT	658	61.69
ACTACTCCAAGCCACCGCCAT	969	61.69
TTCTGCTATCACCCTCAACTCA	31	56.26
GTATACCTCACCCTCGATAATATGCGT	30	60.61
GCCTTCTCTTCGCTGGACTT	57	57.35
TATCTGAGGCGAATGAGGCAAT	3113	59.66
ACTACTCAACTCAATATGAACACTGTCA	49	56.45
ATTCTTCCAGATCTATGACCTAATCG	68	57.15
GCCGCCAACTTCTGCTGTAC	66	59.47
AACGAACAGGAGGATTACTTGAAC	4866	56.66

ATTGCTTCCTCGTTCACATCA	2109	56.88
AACGAACAGGAGGATTACTTGAAC	444	56.66
AGTTGCTGTTGTTGCTTGCC	75	57.62
TTGTGCCGTTGTTGTTCTCA	879	57.32
AACGATCATCACTGGTCTTCTAATCATC	48	60.82
TACGAGACACCGAAGTATATTCATCAGA	38	60.21
TGTGAGCCAGGACCAGAGTG	146	58.39
CTGCTTCCGTTGGAATTGATC	836	58.25
TTCTAATTGTGATCTTGTCGGCAAC	566	60.32
ACCAGACTTACCATCCGAACTACT	470	56.21
GAGACTGACAATTCATAATATTCCAATC	63	56.63
GCAGCCAAGAAGCAACACAG	145	58.25
GCAGCCAAGAAGCAACACAG	154	58.25
GCAGCCAAGAAGCAACACAG	151	58.25
GATTGAGCTGAACTGGCTGAAG	549	57.82
TAGTCACTGTGATGATAATGAGCAATG	892	58.34
GCAAGAATAACGCTGGACAAGA	613	58.13
AATCAACGCAGTCACGGCAA	678	61.17
CCATTCTTCAATCTCGGAGCCTA	411	60.48
CCATTCTTCAATCTCGGAGCCTA	375	60.48
CCATTCTTCAATCTCGGAGCCTA	413	60.48
GCCAACTCTCGGATGGACTC	70	58.27
CTGCCGGATTCTTGTCACAT	49	57.2
AAGTAGTCGAAGAGGCAATCTGA	56	56.11
CCACTGTTGGACATTGGAATC	59	56.41
TGGATATGCGAGAAGAGACGT	151	56.13
AAGTGAATAGGAGTGGAACAGGAG	69	56.7
ACATGAACCATCAGCAGACGAC	453	58.67
ACATGAACCATCAGCAGACGAC	431	58.67
TATGTGACGGACTGTGGTAGGC	2788	58.59
TATGTGACGGACTGTGGTAGGC	2797	58.59
GGCAACTTCCTTCAACCATCC	278	58.03
AAGAGGATGTAACCAGTCGTCAG	70	56.17
GCAAGAAGCAGTGTCAGAGGA	836	56.86
GGATGGAAGAAGCCTGCGAGT	200	61.54
AAGTACATTGTCGGATGAGGAGTAC	843	56.57
GCGAGTGGATGTTGGAGAGG	390	59.24
GCGAGTGGATGTTGGAGAGG	306	59.24
GCGGAGTGTATCATTGGTGGA	227	59.39
ATGCCAAGAATCAAGTCGGA	509	56.8
CTGTGTCCACTTCAATGCCA	325	56.66
CTGTGTCCACTTCAATGCCA	297	56.66
CCGTGCTCACAATGATGCTC	714	58.83
GACACAGCGGACAGTCTATCAGC	112	59.91

GGCAATCTATCTCCTCCTTATATGG	98	57.44
TTACGTTCTCGACAGAACGGA	86	57.09
GTCGGACATATTCTTCCATTCTTAG	79	56.3
GAGACGCTTCCTCCTCTCTTGC	152	60.58
AAGGACGGAACCTTCTTGCCA	707	58.37
AAGGACGGAACCTTCTTGCCA	573	58.37
TTGATGGTGGCAGAGTGGTT	724	57.58
CTAAGAATGGAAGAATATGTCCGACA	95	58.66
CGAACAACGAGACAGACGACA	282	58.51
GAGAAGCTCGCCGAGTTCAG	594	58.9
GCTCTATCTGCTCATTAGCCATC	315	60.31
GGTGTGCCAAGAATCGGAT	258	60.79
TCGTCACCAATCTTCGTCCA	366	58.65
GATGATATTCCTCTCGCTGATGA	146	57.02
GATGATATTCCTCTCGCTGATGA	146	57.02
GATGATATTCCTCTCGCTGATGA	146	57.02
CGTACAATGACATATCTATAGGAATGG	355	56.2
TATGGAAGTGGATTGGCTGGA	1600	58.97
GACACGATTGACTTCGCCAAGA	265	61.11
GACACGATTGACTTCGCCAAGA	265	61.11
AATGTCTTCTCGATCTACAGGAAGC	32	58.19
GAGGTGAAGACCGAAGAAGCTAGAG	409	60.01
AACTGGTGCGTATTGTGCCT	122	56.83
CGATATCACGTTCCGCTCGA	27	60.7
CGATATCACGTTCCGCTCGA	27	60.7
ATGTTATTCGTGGAATGGAGTGG	691	58.74
GTCATCAGGCACGAGCATTC	938	57.83
ATAAGGAGAATCAACGGAGTGCT	1072	57.15
GGAACGAGATGGTGGAAAGTG	1562	56.59
ATAAGGAGAATCAACGGAGTGCT	809	57.15
GGAACGAGATGGTGGAAAGTG	1299	56.59
TTCTACAAGCAACGCGATACATCT	1921	57.02
GCACTGGCTCGGAGGCTAAG	75	60.98
AATTGCAGAAGCCGTTGGAG	648	58.91
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TTATGTTGGACATCTTGACTATCGTT	681	57.01
TTATGTTGGACATCTTGACTATCGTT	740	57.01
TTATGTTGGACATCTTGACTATCGTT	681	57.01
TTATGTTGGACATCTTGACTATCGTT	740	57.01
ACGTTCAATATGGAATTGTAAGGAAT	25	56.04
TGGTGGAGGTTCTGGTAGAGC	131	57.85
AATCGAGCTGTTAGAGGATATTCTCA	826	57.82
ATTGAAGAGACCGTTGCGAA	266	57.02
AAGTTGGAATGCTTCTAGGTGCT	515	57.33

GGTCTTCTTCTGTTATTGTTTCGTACA	50	56.84
CATGTGTACTCTGCTGGTACAGTCC	803	58.77
CGCTCATTCTTGAAGTGGTTC	838	56.16
GACCAGCAGCCAATGTTCTG	122	59.7
GCTCGGTCATTGCTCTGGAT	599	58.84
GCTCGGTCATTGCTCTGGAT	599	58.84
GTCTCTACAACACTACAATAATGACGGTGA	41	57.95
AGCAAGCTCAGCACGAACTG	2643	58
GCCTTCATTGAGCAGCTCGAAT	1084	61.62
ACATCATCATCGTCGGAAGAG	1407	56.25
AATGCTCTGCCTTCATTGAGC	1120	58.16
TTGGTGACGACTATCGATTCTG	424	57.31
ACATCATCATCGTCGGAAGAG	1454	56.25
AAGTGGCTCTAGAGAGGATAGTTGAGC	219	59.93
CCGTCTTGTCATTCTGTTCG	494	57.06
GTCTCTGGCACAACAGTCTTCA	668	56.63
GTCTCTGGCACAACAGTCTTCA	668	56.63
GTCTCTGGCACAACAGTCTTCA	635	56.63
GTCTCTGGCACAACAGTCTTCA	635	56.63
CGCTGCTCCACTTCTAGCCAAT	214	61.65
AAGAAGCAGACTATCACTGTCAAGG	115	57.04
ATGCTGATGGAGTTCGGAAG	295	56.39
TAACATTCCAACGCGATTCTG	28	56.57
TAACATTCCAACGCGATTCTG	38	56.57
CGCAACAACGGAAGGAACA	650	58.35
CGAGCAGTCAGCAGAGCAGT	121	58.09
CGAGCAGTCAGCAGAGCAGT	66	58.09
CGAGCAGTCAGCAGAGCAGT	76	58.09
AGTATGCCGACCTTCTTCACA	281	56.04
AGTATGCCGACCTTCTTCACA	281	56.04
ACTGTGTGGTGTGTGGCGTT	36	58.5
AGGAGACTGTGTTGTGTGCGA	32	57.95
AGGAGACTGTGTTGTGTGCGA	32	57.95
CTCAGTGTAATCATTCTATGCAATCC	754	57.09
TGGAGACCTGCCGGATGAAC	572	61.91
CCGTGAAGCTCACGTTGACA	876	59.45
ATGGAGCATGTGGAGCGAGA	929	60.34
GAAGCTCGTCAAGCTCGCAA	148	60.37
CCTCTCCTCTCTTATAGCTAACCTA	95	56.23
TACTTGCCAGCACACAACAGTCT	789	58.58
ATCACTTCGGACATCTTCTTCG	640	57.03
ATCACTTCGGACATCTTCTTCG	268	57.03
GAACATCAGAACATACCTCCACAC	814	56.26
GAACATCAGAACATACCTCCACAC	710	56.26

CAACTTACACTGGATGGCAACA	275	57.29
GCTCAACAGCATCAGCAACAG	147	58.27
CCTGGTCGCTGAACTTGCTA	241	57.72
CATTACAGATCATGCGCCTTA	28	59.69
GTAGACAACCTGGAATTCGTCGA	199	59.12
TTATCTCTTGTGTGGATTGATGGTA	559	56.45
TGTGAGAAGATCGTATCAAGCCA	206	58.46
TTGGTGTGCAGCGGATCTTC	1135	60.75
AATTCCTCGCACAATAATGTGAA	341	57.33
CAGAAGTTCGGAGGCTGATTC	702	57.61
CGTCGTCGGAGGATACAACA	2703	58.17
CGTCGTCGGAGGATACAACA	2612	58.17
GCTCGCCAAGTTGAATCATCC	1164	60.53
GCTCGCCAAGTTGAATCATCC	1210	60.53
CAGATTGTTCCAGAATGATGAGAT	583	56
CAGATTGTTCCAGAATGATGAGAT	619	56
TCTTGGTGTCAGTGCTTGCTT	553	57.21
GCATTCAATCTCTCTCGTGGA	711	56.53
GCATTCAATCTCTCTCGTGGA	911	56.53
GCATTCAATCTCTCTCGTGGA	764	56.53
GCATTCAATCTCTCTCGTGGA	792	56.53
CAGGAGTGGTAGGCAGAGATTC	108	56.65
GTGAAGAACAAGCATTGCCGAA	2510	61.07
CCGTGTTGGTGGTTCATTCTG	245	60.75
CCAGTAATGCTCCACCACCT	189	56.18
CCGTGTTGGTGGTTCATTCTG	145	60.75
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ATGTGTGAATCTGGATAATGAACG	176	56.71
GGTGAGACTGAGAACGATGAGG	98	57.45
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CTTATTGGTTGTGAGCGTGTCTG	313	59.27
TTGTGCGAATATGGTGACAGTT	255	56.79
TTGTGCGAATATGGTGACAGTT	304	56.79
CCAGAAGCAGCGAATCAATG	874	58.06
TTGGCTGTCTTCTGTGCTGTATC	338	58.14
TTGGCTGTCTTCTGTGCTGTATC	338	58.14
TTGGCTGTCTTCTGTGCTGTATC	338	58.14
TTGGCTGTCTTCTGTGCTGTATC	338	58.14
CAAGGCCGACCATTATTGTC	79	56.63
CGTTAGCATATGTGACGTGATAAGAAG	87	59.2
GGAACAGACGAGATTAGTGACGGA	1371	60.46
GGAACAGACGAGATTAGTGACGGA	1272	60.46
CGGTAACAATGCTCAGAGAACA	210	56.67

ATTGATAACCACTCGCCTACGCA	881	60.46
ATTGATAACCACTCGCCTACGCA	927	60.46
TCATTCCAACAGATTCCACTAACG	446	59.02
CAAGACCATGCTGGATTCCG	408	60.03
ATTCAAGTCGCCTATGCCAA	314	56.93
AACGACGTGGAGGATGATGT	946	56.46
TCGGATGCCTTCTCTACCAA	700	56.96
GGCTTCCAATGTCTCTGATGC	769	58.34
CCACTTCACGAACTTCAGGCA	624	59.86
CCACTTCACGAACTTCAGGCA	624	59.86
TATGGCTATCGTCCAGCGGAA	225	61.37
GCATCCAGAAGTGAGGTGTGA	1511	57.31
TATGGATATGATAATCGAAGATGTTGT	389	56.12
AAGTTGATAAGGATGGCGATGA	1132	57.32
AAGTTGATAAGGATGGCGATGA	550	57.32
AAGTTGATAAGGATGGCGATGA	437	57.32
ATTGCCGCTACATTCATCTCC	244	57.77
GGACACATTCATACTCAGATCATACC	465	56.74
GGAGTTACCACTTATGCAGAGAACA	1112	57.62
ATCATCGGCGGACTACTTGC	101	58.75
TAACGAAGAGAAGACGGCTCA	823	56.47
TAACGAAGAGAAGACGGCTCA	823	56.47
GGACGAGGATGTGAAGCCAT	652	58.54
GGACGAGGATGTGAAGCCAT	652	58.54
AACGGAGGAACGCTGGTGAC	467	61.02
GGATGTGATGCTGATTGTTGC	1791	57.62
CATACTCAGATGTGGTGCTGGTAG	70	57.46
TTGGAAGAGAACGGTGGTATG	80	56.29
CACAACGACAGTGCTACCAACA	161	58.35
TGGAGCAACACTGGTCACAA	181	57.22
GTGGTTCTAGTGGCTGGAGGT	530	56.86
CCGAATCATACTCTATCCTACCGT	75	56.57
ATTCATCGTCACAGTCAACCTG	784	56.24
AAGAATGGAGATCCTTCAACAACA	470	57.81
AAGAATGGAGATCCTTCAACAACA	419	57.81
ATGACCATTACACTATTGGCTCTTG	1003	57.41
CGTATATAAGGCAGCGTCTCAGG	148	58.96
GCACTCAAGTTCTCGCCAAG	228	57.29
GCAACATGGAGTCACTCAGCA	1626	58.46
GAATGGAGTTCTTCACAACCTGTT	556	57.38
AATCCGCTTGAGTTCTTGCA	96	57.17
GACTTCAGCGCGCTAGTTAG	43	58.06
TCGCTGATGCAATTCATTCG	168	59.36
TACGGAGGTTGCGAGATTGAG	2753	58.92

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TACGGAGGTTGCGAGATTGAG	2717	58.92
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TACGGAGGTTGCGAGATTGAG	1491	58.92
TACGGAGGTTGCGAGATTGAG	2750	58.92
TACGGAGGTTGCGAGATTGAG	2704	58.92
GTCAATCTCTCTCGCACCATCC	1006	59.67
GCCTGTGACGTTACCTGTGAA	490	57.33
GCCTGTGACGTTACCTGTGAA	444	57.33
ACAGTTCTTCTGACACTACGCCAGT	1365	59.41
TGGAAGAATCTATGTCAACAACGC	1742	59.15
GCAATTATAGTAATGCGTCTTCATTC	245	56.52
GCAGGAGGTTCTTCGTGGAA	2675	58.85
AAGTTCGAGAACCAGTGTGGAA	3858	57.44
TTCAACATGCTATCTTCAACCTCTA	180	56.1
ATGCAATGGAGAGCCAGCAG	280	59.94
GCCAGACGAACAGCAGAACT	114	56.72
CACACAGAACGCAGCCACTC	3918	59.05
AAGTGAAGCTGTACGAAGAGGAAG	165	57.16
AAGATGGTTATGGATACGGAGGA	618	57.55
ATGCTTGGAGAAGACACTGAATC	141	56.21
GCCGATAAGGATGCCAATGTC	145	60.24
GCCGATAAGGATGCCAATGTC	175	60.24
CCGACTGTGATTAGATGTGTTGC	1405	58.25
TTGGAGAAGAGACACGAGAGACAG	816	58.78
GTGGTGGTGTAAGTGTAAATGACG	1183	57.18
TTGGATAGTACCTGTGCGTCGT	233	58.27
TTGGATAGTACCTGTGCGTCGT	235	58.27
CTGACAGTTCTAGCAGTATGGAGTCT	122	56.32
GGTGTGCTCCGTTATGACACT	1086	56.25
CATCGGAAGCAAGCCACTCA	153	60.88
CGGATCAGATTGAGCAGAAGA	1356	56.69
AATAGATTCTTGCAACGACGGA	81	57.94
TTCCGTCGTTATGCAAGAATC	69	56.49
GGCACTGAAGGTTCTTCGCTA	168	58.2
GGCACTGAAGGTTCTTCGCTA	168	58.2
CAACCTGGAATGCCTGGAAG	686	59.11
GTTGCCAAGTAGTGATGTGTGTGT	121	57.72
GCAGCAGCCGTCGTAGAAGA	467	60.25

GCAGCAGCCGTCGTAGAAGA	472	60.25
GCAGCAGCCGTCGTAGAAGA	661	60.25
TTGTGTTCAACGCTGATGATGA	34	58.77
TTCACAACACCACTGGAAGACC	177	58.54
GCAGCAGCCGTCGTAGAAGA	444	60.25
GCAGAACAGTGGATGACGGA	421	58.24
GGCGCTTCTTCGATTCCATC	118	60.62
GGCGCTTCTTCGATTCCATC	44	60.62
GGCGCTTCTTCGATTCCATC	118	60.62
TCTGGATGGCTGTGGTAGAATC	90	57.74
TACAACCGCCGTATCTGCTC	1179	57.47
TACAACCGCCGTATCTGCTC	1001	57.47
TACAACCGCCGTATCTGCTC	1168	57.47
AGGAGGCCGAGATGGCTCTC	57	61.7
GCCGTTGACTCTATGCCAAT	905	56.38
GCTGTTGGTGGAGGACTGTT	1740	56.24
ATTGATTGAACAAGGAGAATGTGACT	721	58.2
AGCCTAACATCTACAGCCGAGA	215	56.93
ATATTCAACCGACCGAAGAAGA	148	56.52
CGACAATAGAACTGCCGCCAA	711	61.93
GGCCAGAGTCAATTAACCAGTT	1710	56.06
ACAGTTGTATCATAAGGTGACAATGGA	489	58.82
AATCCTGATACATCATGCGATCA	527	58.02
ATGAACCTGTCAATGGCCAA	453	57.45
GACACAATCACCGCCTTCCT	71	58.59
CGAGGAGATTCCAGACGAGA	109	56.56
AATCTCACATTCTGGCGATGG	204	58.6
TGGAGGTCAATGAGGAGGAC	72	56.06
TGTGGAACGCCGTCTTATTGTG	1027	61.72
GTGTGGCGAAGCGTCTGTTG	516	61.39
GGAGAACGCTACCACACCAA	1312	57.26
TTAAGGCACTTGAGTTGCAGACC	1431	59.42
CATTATTAGCAACCATGTCTTCGT	91	56.21
AATATGCCTATTGGAGTTGCTAACC	58	57.86
TTGAAGAAGTAACAATGCCAATCTC	629	57.62
CACAAGCGGACACATTCACTG	413	58.79
CACAAGCGGACACATTCACTG	413	58.79
AAGGTAACGCTGCTCGGATG	53	58.94
ATGATACCACCACCAACAGAGC	1204	57.53
ATATCAGATACACGATTGACGAGTCT	847	56.28
ATATCAGATACACGATTGACGAGTCT	915	56.28
ATATCAGATACACGATTGACGAGTCT	688	56.28
ATATCAGATACACGATTGACGAGTCT	915	56.28
ATATCAGATACACGATTGACGAGTCT	915	56.28

TCTTATGAGGACCAACCGACTATC	27	57.38
ATGGCATTCTTGAGTATGGCTGT	752	58.65
GCTGCCTACCTTCGTGATGC	455	59.43
GAGCACTTGGACTCTCGTGGA	857	59.03
GAGCACTTGGACTCTCGTGGA	883	59.03
GCAATGGCTGTACTGAGATGC	414	57.06
CCTATTGTCAGAAGATGCTCGGA	736	59.34
AATCAGATTGACTATCTATGCAAGACTG	331	57.39
GGACAGAAGTTCACAACGACGA	136	58.83
ATTGATGTCTCGGAAGTCCATGT	543	59.72
TGTATTATCTAGGTGTTCCAGTACGATT	290	56.78
TATCCACTAGGACTCTGTACTATTCTGA	274	57.04
ACACCAGGAAGTGCATGTCTGA	228	60.13
GAAGGTATTAATGACAGCGATGG	845	56.52
GCTGACTGTGGCGCTGGTTA	631	60.94
GCATATCGTCCAAGACATCACTC	958	57.3
AGAATCATCAATCCAGAGCAGTGTG	170	60.47
GGAACATCAACTCCATGCACAGA	555	60.86
AGCCACAGACAGCTGGAGAA	190	57.19
TCTTAGTTCATCCGAGTGTCTG	141	57.11
TAAGTGACGAGTACAAGTTCAGCGA	790	59.15
TAAGTGACGAGTACAAGTTCAGCGA	790	59.15
TAAGTGACGAGTACAAGTTCAGCGA	790	59.15
TGGAGAGCGTTGGAGAAGTTG	490	59.05
CATAATATGGCACTCGGACGA	345	57.22
GCAGTAGTATGGATTCGCAAGC	1631	57.68
GCAGTAGTATGGATTCGCAAGC	2145	57.68
GCAGTAGTATGGATTCGCAAGC	2554	57.68
CGAATGCTCTACAATGACAACAC	270	56.11
AATCGGCGAGATCTTCAAGA	154	56.17
TTGTTGATAAGAATGGTCATGTGGT	519	58.35
GCCTATTGGATACATTGCTGGA	1241	57.71
TTATGCTGGATGCTTAGGCGATT	1013	60.82
TTATGCTGGATGCTTAGGCGATT	869	60.82
CACAGCGACAATGACTCCAC	257	56.21
CACAGCGACAATGACTCCAC	163	56.21
TTATGCTGGATGCTTAGGCGATT	794	60.82
CACAGCGACAATGACTCCAC	257	56.21
CACAGCGACAATGACTCCAC	163	56.21
TTATGCTGGATGCTTAGGCGATT	1019	60.82
TTATGCTGGATGCTTAGGCGATT	869	60.82
TTATGCTGGATGCTTAGGCGATT	794	60.82
AATGGCTCATTGGACTCTTCATC	139	58.21
CGCATCTGCTGTCATTGAGC	3130	59.14

ATGAACTTCGATGAATCACCATT	23	56.24
TCGCAAGTGTGGTAATGAAGC	1787	57.51
TCGCAAGTGTGGTAATGAAGC	1853	57.51
GCATCTGGAACCGCTTACTCA	604	58.93
TTACTTGTTGCGACATTGCCA	39	58.82
AACCGCAGACTTCCATATTCC	1680	56.8
AACCGCAGACTTCCATATTCC	1680	56.8
TTGGTTGTCAGTCAAGAATCGTC	142	57.83
TTCAGGAATGTGCAATATCAGAGT	90	56.6
ACTGTGCCAATCGTCGAGAA	287	57.89
ACTGTGCCAATCGTCGAGAA	287	57.89
AACTGCGAAGGAGAGAACGG	1090	58.13
AAGTGATATGACAAGCAATGAGGA	389	56.6
TTCCAACAATGCAAGTATATTCATG	55	56.92
CGTGGAACCGACAATCAACA	1284	58.98
TGACGGTGGAGTTGCTCTTATGAG	425	61.43
GAGTGTCTTCCAGCCATACGC	165	58.41
TGGTTCAGCAACAGCAGCAA	53	60.14
TGGTTCAGCAACAGCAGCAA	88	60.14
CCGAATGCGATCATCTCAAG	64	57.85
AACGAAGCTGATACTGATGACCA	1050	57.5
AAGTTGTTGTTCTTCTCTCGTGAA	64	56.72
ATGCCGTTGATCACTATTCGA	98	56.8
ATGCCGTTGATCACTATTCGA	122	56.8
GCCTCCTACTACGCTGGTGA	468	56.65
GCCTCCTACTACGCTGGTGA	468	56.65
TTCACAACAAGATTCAACGATGGAC	819	61.03
TTCACAACAAGATTCAACGATGGAC	812	61.03
TTGAATAGCCGCCGTCATCA	538	61.06
CCGAATCCACTGACGGAGAT	314	58.54
AACCAACAACCACATCTTCTACT	48	56.87
ATCGTTCTGTGTTATCTTCTCCTTG	46	58.05
GCTGAGGACGGACAATGATTC	53	58.19
CGATGATCTGGAGAGCTGGTT	737	57.95
AATCTATTCAAGGAGTTGGAGGAA	711	56.28
TATTGCCGATGTCAGAATGTATAGTAG	539	56.84
CTCGTGATTCCAGATTGTAAGGC	85	58.76
TGATATTCTCCGTGATGAAGGTC	1172	56.8
AATGCCGTATTACCAATATCTGCT	399	57.02
ATTCTTCAATGCTACCAGTATTATCTCG	207	58.41
ATCGCAAGCTACAGAGGCTGAAG	1255	60.95
TATGTTGTCTGCGTTACCAGAGTAC	947	56.37
AACCTACCGAATTCTAATCATCAACT	139	56.72
TCTGTTAATAATCCGGTTCAACACAA	440	59.66

TCAGCTATCGAAGAATGTATACGC	1186	56.56
AGCAGCCTCCAAGTTATCCA	84	56.11
AGCTCACAAGTCAGAGCAGATG	237	56.02
GTTGATTATGGCTGCAACTCAA	849	56.57
TTCATCTGGTTGATGGAGCA	269	56.17
TGACAGAAGAGCCTACCACAACA	246	58.51
TGCGAAGTACACTGTCAACAATG	232	57.5
ACACGACAGGCGGTAGAAGG	764	58.81
CGGCAATCATTATCAGGAA	150	58.1
GATCAATCGAATGCCTGATATTACAC	175	58.84
ACGAGATTATGTAAGACAATTACTCACC	390	56.45
CCACTGGAGCCAATCCACAA	335	60.46
TTCTTGATTGGAGATGTGCTGT	493	56.02
TCCATATCAAGCAACTCGACGAA	1133	60.55
TTGCTGATGATAAGCGAGGAT	268	56.19
CGACAAGATTGGATGGAGTCA	1180	57.18
GGATTACCGAACAGCCAAGA	1087	56.36
AGATGAGAGCAATGGCAGCGT	583	60.87
TCATTCAACACCAAGCCAGTCG	1382	61.89
TCATTCAACACCAAGCCAGTCG	1097	61.89
TCATTCAACACCAAGCCAGTCG	1662	61.89
TCATTCAACACCAAGCCAGTCG	702	61.89
TCATTCAACACCAAGCCAGTCG	513	61.89
TCATTCAACACCAAGCCAGTCG	1063	61.89
TCATTCAACACCAAGCCAGTCG	764	61.89
TAGATGACGACGAGAGTAACGATG	100	57.23
CGCATCTCATGGATCAAGCT	371	57.45
ATTCAACACGGCGACTGCAT	904	60.1
TTGATGAGCTCTGTGATGATTGTG	888	58.84
TTGATGAGCTCTGTGATGATTGTG	806	58.84
CGACGCCGATTAAGAATGGA	371	59.62
AAGGACACATTGGAATATGGCA	935	57.92
CGAACTTCGTCAAGCTCGTC	959	57.29
CGAACTTCGTCAAGCTCGTC	974	57.29
ATTCCTTCTTGCTCTCAACGGT	86	58.02
GAGCAATATGGAGCAGAATGAAGC	140	60.17
GGAAGGAGGAGGCAGGCAAC	90	61.94
CGAGGATTATGTGGACGCTT	176	56.39
GGACTATCTGAACAAGATGAGAGGTG	167	58.4
GGAAGATGCCATACAGACCAGA	1053	57.74
ATATTATGTATCAGCTTCTATTGGCATT	659	56.18
GTTATTAAGGAATTCAGTGAATTATCGG	98	57.83
GTTATTAAGGAATTCAGTGAATTATCGG	247	57.83
TTGGAGTTGTTGATGAGTATTCGG	478	59.02

AAGTATCCACAACCTATGAAGATGCAG	705	56.81
TTCAACGCCTTATCTCAATGC	1121	56.64
TGAAGCAAGCCAGCAAGGAA	4132	60.59
TGAAGCAAGCCAGCAAGGAA	4084	60.59
AACTGCATGAGAGCAGGCTT	90	56.36
GAGACTACTGAACGGCGAAGAAG	59	58.35
CGCAATGATCGGAGAGCATC	98	60.29
CGCTCGTTAACTTGTCTTCTCTTG	68	58.45
GTTCTCCTCACC GCACTTGG	834	59.28
TTATCGAGAAGCTGCAACCTG	479	56.89
TCTTGTGATTGCCGAGGAAC	360	57.32
TTATTACGACGAGATTGAGCCA	443	56.24
TTCGGTAACATCACAGCAAGTC	675	56.52
CTGGCTCGTCATCTTCTTCCTC	322	59.06
ATTATTCAGGACCATCGCAACA	1509	58.06
GACACTCGGATATGTTCAACTCG	441	57.36
GATTCTCCTTCTTCTCATCGGATT	131	57.94
TTCCATCCACTTCATCTCATCG	199	58.58
AGCCAATCATGCTCGTGA	662	56.94
CCGAACACTTCAGAGAATCAATG	43	57.48
CGTCACCTAAGTCAATAGAGCTTCA	221	57.88
AATCATCCACATCTTCCACCA	646	56.34
CAGTTATTCTGATGGTTGGATGG	230	57.11
CAGTTATTCTGATGGTTGGATGG	230	57.11
AATGGAGACGAAGAAGAATCAACA	429	57.95
AATGGAGACGAAGAAGAATCAACA	318	57.95
CTGGTTCGTGGAGGAAGGAT	702	57.64
CTGGTTCGTGGAGGAAGGAT	686	57.64
AACGAGAGTCTCACCAGCGA	548	57.19
GACCTGCCGACGACTACGAG	1414	59.45
CAGCAGCCGTTGGTTGTGTT	659	60.69
TGAAGGAAGATTGCGAGTACG	597	56.74
ATCGGAATCAAGAAGGTCAACG	604	59.07
ATCGGAATCAAGAAGGTCAACG	604	59.07
AAGATTCCGCAGGAGATGTGCG	555	60.17
GAAGGAAGACTTCAATACGCTGA	486	56.48
CGGTCTTCCAACCTGACGCTAT	194	57.95
TCGGAGTTATTCACAAGTTCACA	141	56.09
CACATGCCAGGAACCGTTGA	23	61.45
TGATTACGAGTTCCAAGACTATG	173	57.07
ACGTTGAGATTATATCCATTAGGAACGA	1168	60.25
CGACACCTGGACTCTTACC	1252	56.71
AAGCAGATACATGGACTCTACACTATG	1273	56.12
TGGATGTGCTCTTGGAGCATG	199	60.76

TGCCAACTCAAGACGATGTATG	1197	57.38
TTGGTGGAGGTGTTGAGGTG	132	57.98
GGAATCATCGACGCTCATCC	981	59.04
TGCTTATCGATATCAAGTCTTGAGC	381	57.84
GTCGTGGTGGAGTCAAGCGT	138	59.73
ATTCTATCTGGCAACTGACGCT	945	56.78
ACGACGACCGCTGGAAGTTC	801	61.15
ACTGAAGCCGACGAAGATTATGTG	84	60.46
GGACAGGAGACTGAAGCCGAT	163	59.28
AAGGTGATGGTGTTCGTGGTG	56	59.32
AAGGTGATGGTGTTCGTGGTG	45	59.32
TGTAGTCGTCATGGCTATTGATTCATC	571	61.28
TGTAGTCGTCATGGCTATTGATTCATC	633	61.28
AAGGTGATGGTGTTCGTGGTG	36	59.32
ATGAGGATGGCGTAGAGGCA	657	59.24
ATGAGGATGGCGTAGAGGCA	605	59.24
ATGAGGATGGCGTAGAGGCA	667	59.24
ATGAGGATGGCGTAGAGGCA	648	59.24
ATGAGGATGGCGTAGAGGCA	668	59.24
CAGCCTTCGCCAACATTCTC	108	59.4
CGACACAATAAGTTCGATCTGAA	693	57.26
GCCTGCTGCTACCTACATGTG	254	57.15
GAGAAGCCGACTGGAGAATG	1068	56.11
CTCCAATCTCTATGACAACCTGAA	113	56.21
CCTTATTGCTCAGTTGGTCGTT	744	57.07
ATGTGGACGACGCTTGATGA	163	58.68
CATTCATGCTATTTCGTCTGAC	212	56.87
ATGGATTATGTCACTTCGACAGTTG	107	58.14
TCCAACCTCCAGTCCAATATTATTCAATG	351	61.25
AAGTGCTCGTCCACCGCTAA	510	59.47
AACCAGTGCACCTATGCTCTAGC	733	58.61
TGTGAAGAAGATTACGGATGCC	64	57.81
CCATAGTGTGCGTCGTTGTG	786	57.22
TTCATGCAGGAGTCGAACGG	462	60.74
TTATTCTTATGTGGTCGTAGGATTGG	49	58.48
AGATGATGAAGATAATGAGTCGCA	40	56.68
GAAGTGATCCGAGTATGTGTAATGAC	73	56.92
GCACTCAAGTTCTCGCCAAG	228	57.29
CACTTGGTTCATTGTGACGGT	338	57.02
CGGATGTGTCTCTGCTTGTC	500	58.46
GTGGCTCTTGTAGGAGTTACCG	70	56.7
GAGGATGTTGCGGATGTGGAA	349	61.72
GGACGACCATCAGGACCATT	346	58.24
CGGACAAGCTCGTGATGATG	653	58.83

TTGTTGCTGCTTGGTGTCTTC	877	57.61
TTCTGGAGGTTACAACAACGCAT	96	59.52
ACTGGAGAAGAACGTACTGAGGTG	1550	57.65
ACTGGAGAAGAACGTACTGAGGTG	1631	57.65
TTGCCTCTTCTATCTGTTAATATAATGG	668	56.65
TGAAGTCACTGGAATCGAAGTTG	115	57.97
CGCCAGAGTTCGTGTTTCGTA	1019	58.52
CGCCAGAGTTCGTGTTTCGTA	427	58.52
GTGCAATCTGTCTTCATATAACTGTTG	559	57.2
AAGTCGGCAATTCTTGGAGA	744	56.08
GCTCAGGAAGTTGCTATTGGC	1212	57.71
GCTCAGGAAGTTGCTATTGGC	1125	57.71
ATTGGACGGAATTCGAGGAC	248	57.51
ATAGTGGAAGGAACGACGAGGA	328	58.71
CGAAGGCTATTATTGATGTCCAT	879	56.08
TGTTACATTCTGCTCATTGGA	125	57.81
TGTAACGACGACTCATCCGA	195	56.28
TGAATCTCAACTATTGCTATGACGAC	807	57.65
ACTACCACTTCTTCTTCTCTCAACAGC	32	58.79
AGCTCTTATGAACATTCGAGGCA	368	59.02
AGCTCTTATGAACATTCGAGGCA	368	59.02
GCTCGGTGGTCCTGATGAAC	192	59.1
GCTCGGTGGTCCTGATGAAC	192	59.1
CGTCTCCGATCCAGAACGATT	224	60.03
CGTCTCCGATCCAGAACGATT	150	60.03
CCGAAGTCAAGATGGAAGCG	209	59.4
AGATGGAGCAGAAGGAGTATGATG	1453	57.57
AACGAGTCATCATCTTCTGCCA	559	58.4
AAGTCTCAAGCCTGGATGGAA	761	57.46
CTCGGAGAATCACTAGCCAAGG	1363	58.97
GTGAAGAGCTGGTTCATGTCACC	1053	59.62
AACGTGGTAGCTGGAATTGC	1067	56.45
TCTAAGGATATTGGAGTTATCGCAGT	284	57.66
TTAATGGAGTTGTGATGTATTGCA	820	56.02
CCGTGGAGATTCAATGTAATTCAAC	905	59.61
CGTCACCGTACTTCGAGATGG	556	59.19
AGTGAAGAGAATGCTCTGTTCTC	1073	56.99
GGACAATATGGCATTGATGTCAGTT	560	59.96
TCAGCATTGTGATAATTGATGTGA	605	56.83
CCACTGCTACGGTTCACTGTC	830	56.93
GTTCTCAGCCAGCCAAGCGT	3043	61.42
GCACATTAGACGGCACAATAAGC	102	59.65
AGGTTGATGAAGTCGTCGGAAT	140	58.58
CGTGGATGAAGGAATGGAGA	1653	57.11

CGTGGATGAAGGAATGGAGA	1737	57.11
TAATCTTATTGAGACTGAGCACCTGT	1158	56.58
GTCAGCGGTTGTTATGGATGTTCT	293	60.22
GTCAGCGGTTGTTATGGATGTTCT	315	60.22
GCAGATCAGCGACTAGATGACG	97	58.71
AATCAGCAGTCCTTCATGAGTTC	79	56.21
ATTGGATTATTGTTGGCGATTG	448	57.51
TTGAAGGAGTCGTTATGTATTATTGTGT	530	57.48
CAACAACAACAATCACTACTTCAACG	540	58.74
TTCCGCACAATACAGAGTTAGCAA	2009	59.78
GAGATAGGTCGCCGGCTCAT	210	60.15
TTCCGCACAATACAGAGTTAGCAA	1703	59.78
GATGCTCACACTGTCTTCTTCCA	79	58.05
GATGCTCACACTGTCTTCTTCCA	78	58.05
AAGATCAAGAGATTCAAGTGGTTCC	991	56.61
AATCTACTAGGCATGTCTCCAGGA	25	57.16
AATCTACTAGGCATGTCTCCAGGA	25	57.16
GACAACCAGGAACAATTGGAGT	826	56.65
GAATCAATGGAGAGCCTGGAC	735	57.25
GCTCCACCACCAGTACCGTCA	1256	61.85
ACTGCCTGTCGTGTGCTACTTG	760	59.06
ACTGCCTGTCGTGTGCTACTTG	542	59.06
ACTGCCTGTCGTGTGCTACTTG	760	59.06
ACTGCCTGTCGTGTGCTACTTG	760	59.06
AAGAATTGGCTGGAGAAGTAATCAG	278	58.11
TCGGTCATTCTACTTGCGGT	911	58.32
CGGAGATGACTAGGCTGGCA	843	59.93
TTGGTGCTTGCTAATGGTGGA	1129	59.07
TTGGCAAGCTGTTCAAGTGTG	537	57.06
GCCAGCAGTGCTAATACGATC	1318	56.28
GCCAGCAGTGCTAATACGATC	587	56.28
ATGATGTATGAGATGATTGGTATGGA	521	57.4
CCAGCAATATCTATCACTTCTAACCAAT	1150	58.3
GTGGATTCAAGATCAATGTTGGATG	215	60.39
TCGGCAGTCATGAGAGGAGA	651	58.05
CCGTATGACATGGCTTACTTCA	1868	56.45
CCGTATGACATGGCTTACTTCA	1868	56.45
CCGTATGACATGGCTTACTTCA	1726	56.45
CCGTATGACATGGCTTACTTCA	1726	56.45
GACAGTTCTCCGATTCTACAGTTCT	412	56.08
GAAGGACATCGTGCAGCTCT	361	56.65
GAATGTTCCACGGAGTCACAA	736	57.09
CCGTTGTACAGTTATATTAATGAAGCA	1651	56.86
CTGATGATATCCAATAAGCCGCTT	903	59.48

CAAGAATATGACTATCGAAGATATGGAT	1089	56.39
GAGATGGTGAGAGACAGTATCCGTT	1142	58.71
TTCAAGCTCTACAGGCATTACG	280	56.08
TTGGACAATAGTCATTCTCCAGA	93	56.58
CGGATGTATCGGAATTACACTTG	61	57.23
GTGGCTGGTCATCTGCACATTC	92	61.42
TACACAGAAGCCGTCAACCTG	290	57.49
TTGATTATGGAAGCGTCATGC	515	57.33
GCAGTTCAGGCACAGACATTC	431	56.99
GCAGTTCAGGCACAGACATTC	350	56.99
GCAGTTCAGGCACAGACATTC	450	56.99
GGCTATATGTCATTACAGAATGGAACC	867	59.13
TCAGATGAAGAGCGACGACA	167	56.62
GTTGGCATTGAGGCAGTTCA	550	58.3
CGGACAGTATGACCTTATGCTTC	600	56.62
CGGACAGTATGACCTTATGCTTC	600	56.62
CGGACAGTATGACCTTATGCTTC	584	56.62
CGGACAGTATGACCTTATGCTTC	584	56.62
TGGATACAGGATTCTTGTTGC	359	57.67
TGGATACAGGATTCTTGTTGC	284	57.67
TGGATACAGGATTCTTGTTGC	405	57.67
GCTTGTTACTTCTGGAGTTCT	891	56.82
ATTGGTATGGATGGAACCTCGGT	1287	58.2
TCACTCCATCTCAGCCAACA	2404	56.28
TCACTCCATCTCAGCCAACA	2291	56.28
TCACTCCATCTCAGCCAACA	2366	56.28
CGGACCACCTACTGATGCTC	372	56.79
GATCAATGCCACGTCCACCA	1082	61.3
TCAACGAAGCATACGGCAGT	798	57.99
TTGCGATGAAGTTGGCTGGT	336	60.21
ACTCAGTATTATGCTCTTCCAACATC	160	56.02
TGTAATTAGTTACATCAAGCGAGTCC	541	56.9
CAACCGAATTATTCAAGAAGAGTGA	565	57.62
TGCAATTCTCTCCACATTCACA	81	57.81
ACGGAGATGTTGTAGCGGTTGA	319	60.49
ACTTCACCGATAGATGTTGGCA	212	58.19
GAGTGCTTACGAGAATCAACGAG	415	56.97
CAACTTGATTCCACTTCACGCT	678	57.99
CAACTTGATTCCACTTCACGCT	678	57.99
CAACTTGATTCCACTTCACGCT	1005	57.99
GCACAATATCAAGGCACTCACC	166	58.19
TGGATTGGTTATCATCGTCGGA	1491	60.99
CATCGTGTAGGAGAAGCCATTG	778	58.33
CGGTGGAAGTGTTCTAGTCAG	57	57.47

CGGTGGAAGTGGTTCTAGTCAG	268	57.47
TCTTCCACCGCTTGTCTTCA	553	58.02
TCTTCCACCGCTTGTCTTCA	629	58.02
CATTGGTTGGCTTATCTTGTGC	805	58.25
TCTCACTAATCCTCCGTTCACTGC	92	60.58
AAGAATATGGATAGACCAATCATTATCG	781	58.05
AGAGATAGTCAGACACAGGAAGAATCC	29	58.47
AAGAATATGGATAGACCAATCATTATCG	781	58.05
ACCTGGAAGAGTGTCAATGTCAA	872	57.31
ACCTGGAAGAGTGTCAATGTCAA	952	57.31
ACCTGGAAGAGTGTCAATGTCAA	878	57.31
ACCTGGAAGAGTGTCAATGTCAA	958	57.31
ACCTGGAAGAGTGTCAATGTCAA	866	57.31
ACCTGGAAGAGTGTCAATGTCAA	946	57.31
TTGGAAGCGGTGTTGGACAT	470	59.93
GAGGCTACATCAATGCTGACGAC	631	59.75
TCGTCCGACAAGTGAGATCC	476	57.23
GAGGCTACATCAATGCTGACGAC	631	59.75
GAGGCTACATCAATGCTGACGAC	631	59.75
GGCAGTCCTCAGATTGTTCCA	2001	58.72
TTCTACTCAAGCATACGTGTCCAAC	1010	58.44
GTGCCATTGGATATATGAACGA	149	56.14
ATTCATCGGTGGAGACTACTGG	237	56.77
GCAATGGCACGACTTCAAGT	257	57.41
TCAAGAGAAGAACATTACATCAAGGA	1025	57.27
ATGTCTCTTCTCAACTGCTATGGTC	37	56.85
TTGTGGCAGGATGGTATTGAG	384	57.16
TTGTGGCAGGATGGTATTGAG	411	57.16
CAGACACACTCAACCTCATTCAAC	27	57.38
ATGGATCTGTATTAATCTCGACAGC	204	56.69
CACCAACCGATCTATTGATTAACACA	84	59.98
GAATAACGATTGCGATGTTACTGTT	256	57.48
GGAGATTGAGGAGGAGGAAGATTG	2516	60.35
ATACGCTGATGCCTGAATGG	716	57.26
ATACGCTGATGCCTGAATGG	351	57.26
ATACGCTGATGCCTGAATGG	498	57.26
ATTGTTCAAGATCGGATAGGCA	815	57.44
GCGAAGTTATGCTGACATTGATAG	1123	56.86
GCGAAGTTATGCTGACATTGATAG	1123	56.86
ATTGAGAATATAATTGGCGTTGAGT	745	56.29
CTACTCACAGAAGCCATCAAGCC	53	59.03
GATCTGATGAGCCAGAGTATATTCG	1292	57.2
TGACTCCATCGCCACTGACAT	97	60.1
ACCTCGGATGTGATCCAGTTGT	617	59.32

GCAGAGCAAGAACCTACTGGACA	256	59.53
CGTATGTAGCCTCGGAGAGTCG	57	59.87
GCTCCGACACTTGCTCACCA	325	60.96
GCTCCGACACTTGCTCACCA	346	60.96
TCGATTCTGTCAATTACAGCAGA	404	56.32
CAATGCTTCACGCCAAGAGAG	469	59.59
CAATGCTTCACGCCAAGAGAG	542	59.59
TCGTGCCAGAAGATGTCGTG	375	59.41
TCGTGCCAGAAGATGTCGTG	412	59.41
AATGGACGATGAAGACATGAGC	32	57.74
GGAGGACGATGGAAGATTAGG	2106	56.33
TTGGACGATGCAGACGATGA	2181	59.77
GGCGGAGCTTGCTTACTCTT	92	57.46
CAATGGATTCCCTTGATTATTCGG	1721	61.38
CAATGGATTCCCTTGATTATTCGG	1721	61.38
CAATGGATTCCCTTGATTATTCGG	1742	61.38
CAATGGATTCCCTTGATTATTCGG	1742	61.38
GTGCTCCGAGTTCTTGATTGTG	806	58.45
CGGTTGAAGAATTCGATGATG	573	56.77
ATGGTTGGAAGCGATTGATG	2741	57.08
CTGTGGAGAAGGATGCGGAGA	2279	61.24
CTGTGGAGAAGGATGCGGAGA	1868	61.24
TCCGAGAAGGCAAGAGAACTG	138	58.26
TCCGAGAAGGCAAGAGAACTG	168	58.26
TCCGAGAAGGCAAGAGAACTG	168	58.26
TCCGAGAAGGCAAGAGAACTG	102	58.26
ACTATGATCCACCGATTCCG	144	56.01
ACTATGATCCACCGATTCCG	144	56.01
ACTATGATCCACCGATTCCG	233	56.01
ACTATGATCCACCGATTCCG	144	56.01
ACTATGATCCACCGATTCCG	233	56.01
ACTATGATCCACCGATTCCG	144	56.01
ACTATGATCCACCGATTCCG	233	56.01
TTATGACTCCGAAGATGGCAA	46	56.92
ACTATGATCCACCGATTCCG	233	56.01
TCTGACGAATCGGATCATCAATG	217	60.77
TTCATGATCGAAGCTCAGTGC	85	57.64
TTCATGATCGAAGCTCAGTGC	95	57.64
AGCAACAAGAGAGCGGCCAA	311	61.89
AGCAACAAGAGAGCGGCCAA	434	61.89
CGTCGCCATCTACCTATTACAGC	863	58.84
ACACGTCACCATTACAGGCTTA	673	56.82
ACACGTCACCATTACAGGCTTA	672	56.82
TTAGCAATTATCATTGTTACCGGAT	571	56.97

TTAGCAATTATCATTGTTACCGGAT	588	56.97
CAAGTGCTACAATGTCCAAGAACAAG	97	60.06
CAAGTGCTACAATGTCCAAGAACAAG	57	60.06
TTGACTTGAGACCAGGAATGATC	1190	56.87
TTAGAAGCCATGTCTATTATTGCAGAAC	517	59.21
CCTACAGTAATCAGTGCTGTGGTT	491	56.25
AACAATGGAAGTAGTTGCTCCAAGAG	511	60.03
ACAGTTGGCGACCGATATCG	196	59.54
ACGAGTCCGAAGTTGAAGTGG	130	57.91
ACGAGTCCGAAGTTGAAGTGG	130	57.91
ATCACCTTGATAACGTCCTGTTCT	57	56.95
ATATGATTCGTTGGATATTATGGAACT	497	56.47
TGTTATGTATGCCTATTATCTGGCTGTC	717	59.7
ATTATGGCTGCTGCTTGGCT	666	58.56
GGAGAAGATTGCAGCTGGATT	954	57.1
CTGCAAGCACCGAACTGACG	234	61.51
ACGGCGTCAGTTAGAGCATT	530	56.21
GAAC TTGTCTGAATATGGACATCGG	617	59.73
AAGAAGTGGAGGCGAGAACG	174	58.13
AGAGGAATGGAGCAGACGGAA	300	59.79
TTCTGT CGGAATTATTGAGAGGA	820	56.65
CATCCTCAATCAATAAGTGGCTCA	822	59.11
CAGTCCTACAACAACGGCTTC	647	56.11
CAGTCCTACAACAACGGCTTC	907	56.11
GAATCGTTCAATGGAAGCACA	74	57.27
ACGACTGCTTCTGATGTTCTGG	2464	58.07
ACGACTGCTTCTGATGTTCTGG	2470	58.07
CAGCAAGCAATACAAGTGAAGA	506	58.19
GCCTTGTTGCTGCTCTTCCA	309	60.09
AACGATTCAGGAGGCACTTG	554	56.46
AACGATTCAGGAGGCACTTG	448	56.46
AACCACTGTAACGAACCACCGT	325	58.48
TCCTTGCTCACTTGCTACG	192	57.72
ATTCAACTTCACGAGGAGCGA	261	58.53
CCACACGGTTCACACAATCAC	160	58.33
TGGTCGTCGGACTATCAAGAG	505	56.48
TTCGTATGTCGTCGCCTTCG	145	60.73
TTCGTATGTCGTCGCCTTCG	215	60.73
TGCATACCTACACAGCAAGTGG	111	57.46
GAGACCTGGAAGATTCATTGACTGG	1170	61.1
GAGACCTGGAAGATTCATTGACTGG	1169	61.1
GAGACCTGGAAGATTCATTGACTGG	924	61.1
GAGACCTGGAAGATTCATTGACTGG	1169	61.1
TTGTGCCTTGCTTATGATGTTG	86	56.5

GAGACCTGGAAGATTCATTGACTGG	405	61.1
GAGACCTGGAAGATTCATTGACTGG	245	61.1
TGTCGTCCTCCTCTTCATCTG	24	56.48
AAGAGCGGCAGCACAGAGAG	778	59.48
AAGAGCGGCAGCACAGAGAG	784	59.48
ATTGAGGTGAACGGCGAGAA	278	59.26
TGGAGAGATTGTATGCTTCTATTAC	440	56.86
GCCGTCCACATCATCATCAGT	869	59.38
AACATCCTGGAGGTTGGCTT	161	57.18
GGAGATGAGCCAGTGAAGGA	240	56.39
GGAGATGAGCCAGTGAAGGA	230	56.39
GGAGATGAGCCAGTGAAGGA	341	56.39
AAGACAAGCGTGTGATCGTCGT	72	60.68
AACCTACATCGTCAACTGTTCTACG	760	57.56
ATTGACAGTACCGAGCGACACT	258	57.49
AATTATATGCTGTGGCAGTTAGTCTG	674	56.92
TTCTGTAGGTACTGCCGATTCAG	863	57.22
GCCAAGAAGAATGGAATACGTT	389	56.12
TATGCCTCTGGAAGTCGCTAAC	60	57.29
TTGCGACAGCAGCTACAATGG	76	60.9
ATCGCTTCACTGATTGTGGCTT	648	59.73
ATTGATCATATGGATGTCTGTATTGACT	134	57.2
GCTTGCACTTACTCTTGATGACTG	53	57.04
CGACGATGAAGACAATGTGC	58	56.27
AACTGTGCTGGTGTGCTGGA	471	58.89
GACCGCCTGTACCAATTCATAG	3649	57.27
CTAATGCTGATATGGAATTAATGGAG	257	56.36
CTAATGCTGATATGGAATTAATGGAG	133	56.36
CTAATGCTGATATGGAATTAATGGAG	199	56.36
TCCATGATCCAAGCAGAAGTTC	502	57.86
CGGCAGACTTACCTCAGCAA	133	57.72
GAGTGATGAGAGCCCGAGTT	195	56.65
CCACCAGCCATTGTCAGATTC	1127	58.99
CTACTGCAAGCGCTCCTGAA	36	58.01
TCAACTGGCGCTCGAGTGTC	53	61.1
GCAGTAGTTGCTCTCGTGTGC	152	57.39
TTAACTGTGAATGCAGAACATCCA	493	58.29
TGAATAACAACACCACCACGA	988	56.02
AACAAGACACATCGTTATAATTGGTT	307	56.16
CAGGACAAGTTAATGTTCCAATGC	5807	58.59
CAGGACAAGTTAATGTTCCAATGC	1621	58.59
GCCTACATTGAGAATCGGAGACT	1552	57.56
GCCTACATTGAGAATCGGAGACT	1299	57.56
GCCTACATTGAGAATCGGAGACT	1552	57.56

GCCTACATTGAGAATCGGAGACT	1549	57.56
GCCTACATTGAGAATCGGAGACT	1132	57.56
GCCTACATTGAGAATCGGAGACT	1399	57.56
GCCTACATTGAGAATCGGAGACT	1826	57.56
GCCTACATTGAGAATCGGAGACT	1761	57.56
GCCTACATTGAGAATCGGAGACT	1157	57.56
AAGAGCACCAGATCGTCCAG	184	56.5
ACTTATGAGATGGTTAATCGGATGG	402	58.39
ACTTATGAGATGGTTAATCGGATGG	144	58.39
CGTAGCCAATGAGATTCGTGAT	33	57.83
GCCTCAATCTATCATATTCATGTGA	1225	56.08
GATTCATTCTTCCTGCCGATT	60	56.85
CTGGACTACCGTACTCTTCTTCGTT	353	58.17
CAGATGCTGGATATGGAAGTGG	623	58.14
CGAATTGTATCTGAACCGAACC	565	57.24
CAGTACAAGCTGGCGCTAATCC	659	59.88
AGTCCAAGTCTCCGACACGA	164	56.87
AGTCCAAGTCTCCGACACGA	149	56.87
AGTCCAAGTCTCCGACACGA	192	56.87
TATCAGGTGGCTGAGGCGAT	233	59.24
TTCCTATTCAAGCTAGCAGTCGT	149	56.25
CATTCTTCATTCTCGGCCTCCT	47	60.5
TTGATCTACTGCATTGCTCACAA	594	57.21
GCTCTGGTTCTGCATGGACA	305	58.4
TTCTGACAGAGTCATGGCATTACTC	38	58.46
TGCGTCTCTTCGTCTCTCGT	68	57.35
CGGTTCTACTCCACTCCTCCT	158	56.1
TGCGACGAGAACAAGAAGAAG	294	56.97
GCAAGTGACTCAAGCTAGATATATCG	782	56.77
TTCCTTCCTCGTAGCAACTGTATC	267	57.69
TTCCTTCCTCGTAGCAACTGTATC	293	57.69
TTCCTTCCTCGTAGCAACTGTATC	118	57.69
TTCCTTCCTCGTAGCAACTGTATC	246	57.69
TTGTTCAATACGTCCGCTGTT	375	56.92
ATCAATGCTGGCTGCCGATT	330	61.43
CATTCATCATTGTCTGTGTTGCTCT	444	59.18
AGGACAAGGAGAACGAGGATG	1185	56.92
AGGACAAGGAGAACGAGGATG	1229	56.92
CCAGGCGGACTGTACCAACT	488	58.66
CCAGGCGGACTGTACCAACT	579	58.66
GATCATTGTCGAGAGCAGCA	837	56.07
GTTACATTGATTATTCTCAACACATTG	807	58.84
TTATCGTGAAGTTGAAGGATGGTA	158	56.57
ATGGTGCTCTGTTCTTGTG	733	56.38

ACCTGTCAATGTCTTCCTCTCCT	1726	57
CATCAACAACCTACCAGTGAGTCG	33	56.06
AAGTGTGGTTAGATATGACGAGTGAT	60	56.21
AACTCCTCAACGGCAATGGT	166	58.11
AACTCCTCAACGGCAATGGT	166	58.11
AACTCCTCAACGGCAATGGT	166	58.11
AACTCCTCAACGGCAATGGT	166	58.11
GTCCGTCCGCCACTGTTATCTAC	152	60.7
GGAATAAGCCAAGACCATCAAG	1514	56.52
GGAATAAGCCAAGACCATCAAG	1520	56.52
GGAATAAGCCAAGACCATCAAG	1486	56.52
AGTGTTGCTGTTGCTCTTCCA	443	57.21
ATGATGACGAAGTTAAGCAGGAAC	1131	57.56
TCGGATCTCCATATATAGAGTGAGTC	70	56.42
GCTGCTTCAGGATGTCACCTG	40	57.15
GGCGGTTCAAGTAAGGAACGG	150	60.43
AGACGACTACAACCTTCATCACCAG	163	56.24
GAGCCATCCGAGTTGTGACA	85	58.24
AGACGACTACAACCTTCATCACCAG	163	56.24
GAGAAGTGCTGACGCCGTCT	58	59.19
GTGGCACTAGTCCGCATAACC	197	58.2
TGCCACGATAGGTTATCAGTTCA	85	58.26
CATATCATTGACTCATAGAGGAAGGC	88	58.3
AATACATTCGTAGAAGACTTGAGCCT	473	57.05
GGAAGATAGATGGAAGGAATTGTGG	64	60.01
GGACCGTTGGAGCGTAGGAG	100	60.58
AGATTCGAGCACTCAGACCACA	1182	58.54
AGATTCGAGCACTCAGACCACA	984	58.54
GTCCACCATGACAACCTCCACTG	110	58.92
AAGTGTGGTGTCGTCGAGGTT	68	58.17
GTGCCTCACACCATCGGATC	87	59.91
GAAGTTCATGTAAGCACTACTCTGGA	522	57.01
TCGTTGTCTGTTGTGATTCCA	4058	56.17
TCGTTGTCTGTTGTGATTCCA	4058	56.17
GAAGGACTCATAATTGTCTGCTGTT	367	56.81
TCGTTGTCTGTTGTGATTCCA	4195	56.17
TCGTTGTCTGTTGTGATTCCA	151	56.17
AATCTCGTCCTACAATCCTACCTG	175	56.64
TCGTTGTCTGTTGTGATTCCA	3745	56.17
TCGTTGTCTGTTGTGATTCCA	3745	56.17
TCGTTGTCTGTTGTGATTCCA	3552	56.17
TCGTTGTCTGTTGTGATTCCA	3552	56.17
AATGGAATTGGATTCAATGAGTTATGAC	3141	60.43
AATGGAATTGGATTCAATGAGTTATGAC	3015	60.43

ATTGGACGGATGTGGAGATG	271	56.82
AGTGGAAGGATGTGCTTCTGAC	337	56.99
TTGATCCGCATTGCCACTAG	715	58.33
TTGATCCGCATTGCCACTAG	825	58.33
TTGATCCGCATTGCCACTAG	825	58.33
CGATGGTTATTATTGCAATAATCCA	899	57.99
GAGCACCTCGAGCAGGATCA	450	60.07
GATGAGCCTGCCACCAGTTCT	120	60.22
GATGAGCCTGCCACCAGTTCT	120	60.22
TTCCACACCGTTGCAGCTAT	92	57.84
CTCCACCGAAGCCACCAGTT	123	61.01
GGCATCGTTCTCGTTCCAAT	35	58.59
GTGCTCTGTTCTGCCAGTCAA	70	57.68
ATGCGACTGTTGGCGGAGAT	582	61.51
CGCCTGAGGTAACAATGATGA	205	57.31
AGTCCAGACAACTGCTGCTCTT	301	56.96
AACTGTTCTGTTGGACCTAACTACT	186	57.59
TTGATGACGAACGATCAGAGAG	272	56.62
AACTCCATCCGCCACAACCT	447	60.32
TTGATGACGAACGATCAGAGAG	194	56.62
GCAGTTAGTGCAGCTAAGTGTCC	251	57.05
CGTTGATGGATGTCTACTTCACA	1374	56.38
GCCGCTATTGAGTGGACAGA	839	57.51
ATGGATATTGTGCTGAATAAGGAGT	170	56.19
ATGGATATTGTGCTGAATAAGGAGT	166	56.19
GTGCCAACGACTCTCGCTTA	299	57.72
AAGACCATCAGGCGATCGAG	56	58.83
TATCGGAGGAATCGCCAGTT	271	58.21
CTCCAGAACCAGATGATGACG	331	56.77
CGACACCTACACGACGACTCA	337	58.39
CCTCCAGGCTTGCTAGTTCC	230	57.62
CGTGTCACCTGTGCAGTGTATATAACTG	508	59.92
ATAATGGACACTTGGCTTCGG	215	57.68
TCGCTGCTCAGTGAGTGCTT	614	58.5
CTGTAATGGCAGATTATCTTGTTGTG	480	57.92
TTATGTACTTAGCTTCATGTTGATGGC	1844	58.76
AACAACGCCAGGATTCTGATGA	118	60.44
CTGCCGAGAGTTGGTTATGTG	903	56.97
TCGGTGAATGATGAGATGACA	258	56.02
CCTATATACTTAGCTCCTCCTAGGTGCT	77	58.3
CCAATCCTCCACTTGTGCTC	279	56.75
CCAATCCTCCACTTGTGCTC	312	56.75
ACGACGGAGTTCCAGGAACC	781	59.93
CGACGGAGTTCCAGGAGCAC	786	61.7

GACAAGCAGGAACTCCAGGAACTC	775	61.4
AATAATGTAACCGTGAATGATGAGAT	2075	56.05
GTCAGCATTGCGACATAAGGA	401	57.45
GGATGGCGAAGGATATCAGTT	127	56.73
ACCTCAGAGCATGTTGCAAGT	1182	56.13
TTGTCAACTATTCGAAGATGCTTC	139	56.46
CGCTCTTCAAGTCTTCACTGTCC	765	59.16
AACCAGTTGCGAATCGGATG	657	59.52
TTCTGAGTTACTCGAGGAACGC	234	57.38
AATCACACATGACAAGCGGAA	524	57.67
AACCAACTTCTCCTCAGGACTCT	162	56.33
CATGGATGGTGAAGGATATCAGTTC	150	59.57
GAATCCAGAGTCAATTGGAGCAA	178	59.19
CCGTGGAGCAGTTGAAGAGC	375	59.57
CCTGCCTGTTGAACTTGAAGA	497	56.67
AAGTAGCAGAAGTAATGAAGAAGAGCA	703	57.45
AGGAACATTGGAGTGGCGTGA	1073	61.39
ATCCATTCTCATCTTCTTCGG	341	56.72
CACTTCAAGACGCGCTCAAC	64	58.25
ATTCTTCTTGTAACGCAGACGCCTA	186	61.3
TGGAACAGTATGCGGTGGAT	1736	57.48
TGGAACAGTATGCGGTGGAT	1736	57.48
AATCAAGTCTACATATCACGGTCCA	2217	57.68
GAATATAAGCTTGGCACCGAGA	361	57.18
TTATCTTGGACTGCAACTATTGGATG	56	59.43
ATTATCGCAGCATTCTTCGG	296	56.59
CAATCCTCCGTCTACCACAATC	45	57.15
CAATAGATTCTTGCCAAGCA	960	56.64
TACACAGTTGAAGATGCAGATTCTGT	738	58.09
GGAATCAGTGAACCTGCTCTACC	2317	57.9
GGAATCAGTGAACCTGCTCTACC	2345	57.9
GGAATCAGTGAACCTGCTCTACC	2341	57.9
GGAATCAGTGAACCTGCTCTACC	2369	57.9
GGTCCATTGCAGATTGTCCT	61	56.07
ATAAGCAATGTAGGAAGTGAGGAGA	88	56.51
TCATACGATACCAGACGCAGAA	495	57.02
ATGAAGGTAGTTCTTCAACGAGTTACTC	28	57.81
ATGAAGGTAGTTCTTCAACGAGTTACTC	28	57.81
CGGATTCGAGGATGCTGTCA	463	60.71
TTCCTATATTGATTCTGGATTCC	247	56.38
GTAACAAGTGGCCACTGCTGA	76	57.49
ATGTCAGAGCGAGGCGGATT	21	60.7
ACATCTCTCCTCACTACCATCACA	129	56.44
CTATCATCATGAAGAGCGCCTT	38	57.24

CTGGTTACCGAGTTGATAATGCG	4667	59.51
CAAGCCAAGGAGCACGAAGG	324	61.75
GTCGAGCGAAGAGCGTCGTT	472	61.55
ACTCTCCGCCGTGTTGCCA	492	61.65
ATCAGTTATTGCGGCTTGTGC	2208	58.85
CAATTATGAGCCAGAAGACACTTG	223	56.8
TTGGAATGTGCTCAGAAGTGTT	271	56.09
TTCCGATCAGTGTGGCCAAT	172	59.9
TTCCGATCAGTGTGGCCAAT	172	59.9
TTCCGATCAGTGTGGCCAAT	127	59.9
GCAACCAGTAACACTCACACCTC	877	57.39
ACGAGTTCAATCAGCAACCAC	269	56.38
AAGTTCACAGTCGTTGGAGATGG	56	59.14
TTCAGGACAACGAGACGCCAT	1117	61.52
GGAATGGAGTATGTGGATGATGC	716	59.15
CCTTGAAGATAATGAGATTCCGTACA	1082	58.66
GGAGATGATAAGCCACCGTACT	1103	56.03
AGTATGATGAAGAGAGTAGTCTGGAAGG	910	57.83
AAGTGTGCCAGGAGTTGTTCA	1581	56.9
GTGCTGCGACAAGACATCATC	579	57.91
GTGCTGCGACAAGACATCATC	605	57.91
CAACGAATTGCTAGATCATCGG	124	58.33
GCGTCTCACATCGTCTCTCAA	29	57.62
GTGAACCTGCCAGAATGCTC	318	56.91
GTGTGTAGAACTTGCCAACAATCAC	364	58.65
TCAGCGACTGAGGCAGAACT	412	57.35
TCAGCGACTGAGGCAGAACT	412	57.35
GAATCGCTGAACACACTAACTGAA	426	57.26
GAATCGCTGAACACACTAACTGAA	441	57.26
CTTCTTCCTGGAGATAGATTAAGCAT	692	56.7
CTTCTTCCTGGAGATAGATTAAGCAT	592	56.7
CGGTCACACTTGTTCTTCGC	258	57.95
TTACTGTACCAGTCCAATATTGATGAC	425	56.53
GCCGACACGATAGATGAAGCC	162	60.55
AAGGATGCGACAGTGGAGAG	1175	56.5
AAGGATGCGACAGTGGAGAG	1164	56.5
GATCTGTCAGTCACAACATTAATCG	550	56.53
CATTCTCTTAACAACCATGACGAG	97	56.66
ATTCGCTATCCACCACTGACC	2782	57.61
AAGCCTGCAACGGATCAGTAC	79	57.95
TGTCGTTGAAGCTGGAGGAT	940	56.91
CATGCAGGAATGTACTAATAACCAA	925	56.21
GAAGACGAGAGCCACATTAGAAG	2790	56.11
GAAGACGAGAGCCACATTAGAAG	2955	56.11

GAGGTAATTCTGGCAATGGATGAG	701	59.8
GAGGTAATTCTGGCAATGGATGAG	866	59.8
GAGCACTCAACCAGTTCCACA	243	57.37
GAGCACTCAACCAGTTCCACA	246	57.37
GAGCACTCAACCAGTTCCACA	287	57.37
CCGACGTGACCAACATGATC	415	58.37
CCGACGTGACCAACATGATC	415	58.37
CACATTGCGACGGAGACATC	130	58.68
CACATTGCGACGGAGACATC	130	58.68
CACATTGCGACGGAGACATC	130	58.68
CACATTGCGACGGAGACATC	130	58.68
CACATTGCGACGGAGACATC	130	58.68
GCCTCCTATGCCTCAACAACA	2597	58.79
GCCTCCTATGCCTCAACAACA	2597	58.79
GCCTCCTATGCCTCAACAACA	2597	58.79
CGTCGTAGCCGTCATCACTC	1088	57.92
CGTCGTAGCCGTCATCACTC	492	57.92
CGTCGTAGCCGTCATCACTC	309	57.92
CGTCGTAGCCGTCATCACTC	669	57.92
CGTCGTAGCCGTCATCACTC	345	57.92
CGTCGTAGCCGTCATCACTC	507	57.92
GTCAAGAGACTTATTACCGCAA	438	56.34
CGTCGTAGCCGTCATCACTC	872	57.92
CGTCGTAGCCGTCATCACTC	1001	57.92
CACATTGCGACGGAGACATC	214	58.68
GTCAAGAGACTTATTACCGCAA	1313	56.34
GTCAAGAGACTTATTACCGCAA	1287	56.34
CGTCGTAGCCGTCATCACTC	492	57.92
CGTCGTAGCCGTCATCACTC	309	57.92
CGTCGTAGCCGTCATCACTC	669	57.92
CGTCGTAGCCGTCATCACTC	507	57.92
GAAGAAGACTACTCCGTTGCGA	820	57.38
CAGAACAATGAGTACAGTGTGTGC	65	56.13
GAGTGAACGACGATATTCCATTG	854	57.25
AAGTGGTTGTGTGGATAAGAGTAGCA	72	59.17
CAACAGCTACAACAACCGCAA	759	58.49
TTCACATGATAGCAATCGGAGA	248	56.93
TCGGAAGACGGATACATTGAG	220	56.38
ATTGTCTCACCTGCCTGCTT	36	56.04
CCAATCAGCCGAGACCAAGA	666	59.77
AATACTGGTAGTACTGCATCCGAGGT	473	59.4
AATACTGGTAGTACTGCATCCGAGGT	473	59.4
AATACTGGTAGTACTGCATCCGAGGT	431	59.4

AATACTGGTAGTACTGCATCCGAGGT	431	59.4
AATACTGGTAGTACTGCATCCGAGGT	59	59.4
AATACTGGTAGTACTGCATCCGAGGT	59	59.4
CCACTCAATTATCGAGTAATACTTAACC	466	56.17
TCAACTGCCATTGGCACTGC	96	61.74
TTCGGTATCGTCTTGTGGCA	57	58.72
ATTGACGACAGGTGCTGCTTA	449	57.12
AATTGCTCAACCGTTCCAGCT	353	59.72
TCACGACATGGATTGGACAGC	605	60.49
ACGCACACATGAGACCAAGTG	1458	58.23
TTCGTGGATCGTCTTCATTCATAC	161	58.99
TTACAAGAGGCAATGGACGAGA	676	58.44
TTCGCAAGTTAGACAGACGCT	1407	56.56
TTCGCAAGTTAGACAGACGCT	666	56.56
CAGCACACACAGAGTGGTATCG	86	57.91
AGAACTTGTGTGGATGAATGTGC	85	57.71
TTGAACAACACGGTGTGCTG	65	57.74
TCAGCCGATTCTCTTCTCTT	1921	56.84
TTGATCGAAGATCGCCTAGTG	1105	56.68
TTGATCGAAGATCGCCTAGTG	1543	56.68
TTGATCGAAGATCGCCTAGTG	1540	56.68
TTGATCGAAGATCGCCTAGTG	1155	56.68
GACAATCAATCATCCACTTCTCAA	505	56.84
GACAATCAATCATCCACTTCTCAA	507	56.84
TTCGACAATTGGAACAGGAGGA	719	60.41
AAGATGTGGAATGACTGCGAA	1031	56.88
GAAGTACGTCTACGTTCTCTCCG	63	57.4
TGCTGGAAGTTGCTGTCCGTAT	326	60.62
TGCTGGAAGTTGCTGTCCGTAT	485	60.62
ATATTCTTCGTATATTGTTCTGGTTCG	385	57.15
TGCTGGAAGTTGCTGTCCGTAT	470	60.62
GCTGACTGAGGCTTCACTTGA	551	56.86
GCTGACTGAGGCTTCACTTGA	550	56.86
GCTGACTGAGGCTTCACTTGA	572	56.86
GCTGACTGAGGCTTCACTTGA	434	56.86
GCTGACTGAGGCTTCACTTGA	551	56.86
TTGGTGTTACAGGAGAATTGTTG	398	59.88
TTGGTGTTACAGGAGAATTGTTG	404	59.88
GCAACGCAATCCTCAGAAGA	543	57.63
ACATTGTGATGGTTGTGTGCTT	98	56.58
GTTGTCAGTTGATGTTGCCGAA	285	59.6
ATCGCACCAGTTCCTGCACTT	1298	60.64
CCATCCAAGTCACTGCCGAA	66	60.6
GGTGGAGGATATAGGACAAGCC	63	57.6

AAGATATCTCGGATTGTTTCATGC	99	56.07
ATAAGCGAAGAAGCGGTTCA	28	56.39
GATGAACAACGCGTGAATATCC	39	58.06
AATCGCTAACTTCGCTGGAG	445	56
AATCGCTAACTTCGCTGGAG	445	56
CATGCGATCAACAATATCTTCG	635	56.92
TAGTCAGAACGATAAGCAACAACAACA	633	60.07
TAGTCAGAACGATAAGCAACAACAACA	600	60.07
TAGTCAGAACGATAAGCAACAACAACA	1926	60.07
GCATCACATCTACAGTAACTGCTACA	1659	56.52
CTCTTGCTGTTGCGAAGTGAA	181	61.38
CTCTTGCTGTTGCGAAGTGAA	256	61.38
CTCTTGCTGTTGCGAAGTGAA	193	61.38
ACTTGAACAACACGGTGTGGAC	297	58.47
ACTTGAACAACACGGTGTGGAC	327	58.47
TGTATCTTCACACTCTTGTTTCATCAG	138	56.36
GACCAAGCCTATTCCATCCAG	1428	57.22
ACTTGCGCGCGGTTATGCTA	524	61.41
AACAAGCCATCACAACCAGGA	3311	59.03
AACAAGCCATCACAACCAGGA	3737	59.03
ACTTGTTGGCTACTGGAGGCA	419	58.46
GGAGGCGATTCCAGTTGCTG	127	61.61
AAGTTCAATGAGGCTGGAGGT	1000	56.49
GAAGGACGACAACGAACACC	3692	56.66
GCTTGAGAGGATGATGATGA	977	56.3
TAGTGAAGAGCAGTGTGGAGAGTG	360	57.43
TTGATGATGTTCCAGCGTCTC	204	57.34
AACAGACACGAGAAGGACATTGAC	312	58.31
TATGAGTCTGGCGGTGGATT	1196	56.67
GACTACAATGACTTGGATGAGATTACCG	165	61.14
CCTCTCGAATAACGGTAGAATTGAC	276	58.33
GGCAACGTCACAAGCAAGAAG	583	59.5
ATCAACATCTACCATGATTGTGATG	325	56.58
TAGAGATGCCATCCGCGATG	73	60.67
ATTAGAACACCTTACCTCAACTGGA	772	56.31
TAGAGATGCCATCCGCGATG	73	60.67
TAGAGATGCCATCCGCGATG	90	60.67
GTGCGGTCATCAAGTTCCGA	72	60.61
GACTCACACGACGGACCAGA	86	58.23
ATGGCTTCTTGTTGCTCTCTGT	804	56.86
AGTTACCTACGATTGAGAATCTGACAGT	489	58.08
CATGGTTACTCGTCACCTTCAGT	819	56.9
TTCTTGTTAGTAGTCGACGTTGTTC	800	58.91
TTCTTGTTAGTAGTCGACGTTGTTC	985	58.91

TTAGGAGCTGGAGAGAGTGGA	136	56.92
TTGTCTGTGCGAATACTGTGC	79	56.07
CCATATTGGCTATCGTTGATGC	75	58.09
ATACAACGCAGTGGCTGACAA	485	57.91
TATTACCTGTTATGATTGCTTGG	223	57.44
ATCTATAATATACGTTGGAGACATGCTC	177	56.46
ATCTATAATATACGTTGGAGACATGCTC	114	56.46
TTGTAATCTGGAATTATTCTCAAGGA	606	56.39
CGTTGGTGTGCTCAACTGGT	310	58.22
GTTCTTGGAGCAGCAATGGC	356	59.41
GAACGCCACAGCATCTCCAA	170	60.75
GAATGGCCAGGCTACGACAA	904	59.66
GCAGTCTCTCAACTAGGAATGGCA	1047	60.7
AATACCGCCTCATCATCTGGA	361	58.08
AATACTATTGTCATTGTTGTTGGATACC	334	56.85
TTCATTACAACCACCACACCTG	2622	56.99
TTCATTACAACCACCACACCTG	2578	56.99
CAGAGATGTGAAGCCAGCAA	568	56.15
GTGTCTGGTGACCATTGCTG	66	56.04
CGAAGATAATGTGACGGCAAT	719	56.37
CGAAGATAATGTGACGGCAAT	584	56.37
CGAAGATAATGTGACGGCAAT	562	56.37
GGTATTATCCAGTCATCATTATTCGA	428	56.45
GTGTGGTGTGGCAACGGAGA	1424	61.55
GCCTTCACTCAATCTTCTTCACA	89	57.22
CAATTCTCCGACGGATCACCA	457	61.71
GAAGTGGCCGTCAAGTTCCG	107	61.5
GGCAAGTCGGTACCATTGAC	32	56.58
CGTATGTATCGCTGTGATGGTC	45	56.75
TTCCTCCACTGAATACCTTGTGCTT	97	61.1
AAGATGAGATCAAGCTGGTATACATG	96	56.75
GCACGAGTTGAGCACAGAAGG	213	59.63
GCAGAAGAATCCAGACAACACTC	297	56.69
AGTGCTCGGTTGTCTTCTAGTCAT	179	57.32
GATCAGGAGACTCGGAACCTGT	97	56.07
CTGCTGCGTGGTGTGTGTGT	84	60.41
ATGACTGGCAGCAATTACCG	873	57.32
TGGTGGAGACGGAGAAGAACTACT	1159	59.3
TGGTGGAGACGGAGAAGAACTACT	1159	59.3
CGTGCGTCTACTGACTGTGTAG	142	56.45
AACACGGAGCACCAGCACAT	76	60.15
GTTCTCCGTCCATCCGTCTG	99	59.09
GGTAGCCGACGACGAAGAAG	242	58.54
CGATCCATATCACTCACAGAGACACT	512	59.56

TTCACCATCGTCCAACACCT	70	57.42
GCGACGAGACGAGACGAAGA	195	60.25
TTCACCATCGTCCAACACCT	144	57.42
GACAAGTGGCTCCTGCTGAT	592	56.49
CGATCCATATCACTCACAGAGACACT	458	59.56
TACAGAGATCAATGCAGCTCTAGGACA	721	61.45
TCGTCGATTCTTGCACTTGC	145	58.6
CGTGCCAATGGTTGACTGAC	264	58.58
TTGGAAGAACAGGAGAACCG	283	56.44
TTGGAAGAACAGGAGAACCG	305	56.44
ACGGCAGATGCTCACAAGAC	658	57.48
GAACGCTTCTCGTCGGAGTACA	1117	60.38
CCATCACTCTCTCGTAACCTCAA	95	57.11
TACCACAGACGCAGGAGGAT	274	56.79
CACCAATCAACCAATTGATCC	1508	56.31
AATTCGATGTGATGATATCGGAA	447	57.09
TCATGGACATAATGTTACAGTCTTCC	168	57.27
GGACATAATACAGTCTTCCAACCAT	169	56.35
GCTACCTCAACAAGAGCCAGTTC	587	58.22
GGCGAACACCACAATAACTCA	212	57.21
CACCATATACTGTATTCTTGCGAA	217	58.22
TTCATTGTTGCTGCCGTCTG	59	59.42
ACTGGTGTCTACTCAGCGATGA	313	56.15
ATGTTGGATGAGTGACTATTCTTCG	1128	57.44
GCAATGGAGGTTCTCAGCGA	413	59.92
TAATTCAGTATTCTCGTAGCGTT	149	56.11
TGGAGGAACCAACTATTCAGAGA	445	56.6
TTGCCACTTGTTATTGCGGAT	487	59.07
TTGTGTTCTTCCACTACTTGACAGTA	728	56.04
CGTAGTGTTATCCGCCAGTCG	288	59.24
CGTAGTGTTATCCGCCAGTCG	747	59.24
GACACTTGGACTTGTGGTGGTAA	154	57.63
AACTGCTGTACGATTAGCCGAA	2120	57.73
CGATTCTTGGACCTGGAAGTGTT	168	60.32
CGATTCTTGGACCTGGAAGTGTT	184	60.32
AAGAATCCATTCTGACACTTCTGG	884	57.46
TAAGTGACAATGAGAGAAGCCTTCA	254	58.27
ACCTCTTGCTCATGCTCCAA	30	57.07
ATACGAGTCAGCATTCACCTTGG	1395	59.14
ATACGAGTCAGCATTCACCTTGG	1395	59.14
CTGAACCTAAGAGCAGTTGTGGA	609	57.31
GGAGGATGGTGATTCTGTTGC	1746	58.04
GATGAAGTACGGTTAATGTGGCA	626	57.69
CCACAGAGGACAAGAGACACTATG	496	56.66

CAGATGCTGACCAGGCTTGC	493	60.51
TTGTGGTTCAACCGAATGTTT	316	57.03
GGTTGTGCTTGCCATTGTTT	50	57.66
GCGGAACAACCTGCTGCCTAC	603	59.47
CGTGTGTGAACTGCCTCCAA	698	59.3
ATGCTGATTGAAGACGAGAACA	41	56.18
ATGCTGATTGAAGACGAGAACA	57	56.18
AACAGAGCCTCAAGTCTACATGATC	312	56.85
ACAGAAGACTGTGGACTTGCCATAGG	711	59.71
GAACCTTACCGTTGCCGAAC	511	58.17
CAGACGCAACAGATTGGAAC	2745	56.54
CAGACGCAACAGATTGGAAC	2670	56.54
TACACCGAACGAAGAACCTACG	252	57.93
TATCATTAGTCGGCGGTTG	1247	58.18
TATCATTAGTCGGCGGTTG	1295	58.18
TTCAAGTGGATTCCACTTCTCC	86	56.86
AATTGGAGAAGTGAATCCACTT	70	56.85
GGAACCTGCTGCTATCAAGTATG	520	57.18
GCGGTGATGGAGGATATGGAC	673	60.12
ATCGGTGTGGCTTCATATCACT	305	57.18
GAAGTATTCCTATACGATCACACCTG	80	56.26
CGCTATCCTTCCTCGTCTTCC	1871	58.92
CGCTATCCTTCCTCGTCTTCC	1871	58.92
AATGCTCGCTGCTTCTGACT	361	56.52
TCTCTATACTCTTCTCAACAAGCCACAA	375	59.84
TCTCTATACTCTTCTCAACAAGCCACAA	375	59.84
AATGAGTTGGAAGGAGAATTGGAA	959	59
AATGAGTTGGAAGGAGAATTGGAA	977	59
AATGAGTTGGAAGGAGAATTGGAA	878	59
TTATCAAGAATCATATGCAAGCGA	732	57.63
AACGCCGAGCCACATGACTT	30	61.53
TTGCCACTACTGGATGCCTT	153	56.89
CTTGTAGACGAAGAGGATCGCAGA	1008	60.81
CTTGTAGACGAAGAGGATCGCAGA	952	60.81
CTTGTAGACGAAGAGGATCGCAGA	1014	60.81
CTTGTAGACGAAGAGGATCGCAGA	858	60.81
GAAGACGCTGGTTGTACTGATGGA	102	61.32
AATCCTTGTGTGTACTGAAGAAGAGTC	114	57.31
ATTCTCATTGCCTTGTCGGA	592	56.8
AAGGATGACTGTCTCAAGAAGGAA	444	57.22
GCAGAAGGAGCATGTGTGTGTC	73	59.36
CAACTACGGCGGTGACTGAA	1362	58.37
TTCCAACACCAGTATCTTCCAAT	744	56.31
AATCGTATCCTATCGTCCACATG	227	56.67

AACTCGTCGGATTCTACTTCTCAG	142	56.97
CAGCGACGACGACGACAGTC	421	61.59
AACCTCTCGCCGTATCATCA	44	56.83
CAACTCATCAACCAACTCAATCAG	473	57.41
CAACTCATCAACCAACTCAATCAG	118	57.41
TTGAAGTGAGCACCAGAAGAAGT	915	56.9
ATGATGACAAGGAGGACAAGGC	358	59.04
GATCAACTTCCAGGATAATCCATCTG	386	60.02
GATCAACTTCCAGGATAATCCATCTG	384	60.02
GGAATCGGTATGAGGCGTGT	308	58.47
CCGCCGTCAATATGTGCCTT	177	61.68
CAAGACGTTGAGCAGCGATT	1102	57.72
AGTATGCGAGGAATGTACTGATAATCTC	144	58.37
CTGAAGAGACATTATCCACTGAAGAG	309	56.59
GCTGGAACGCCTTACTATGTCAA	1099	59.29
AATGAGCAGATCAATTGCGGAT	186	59.54
TCAGAGGCGATTAGAAGAGCA	34	56.56
GCAGTTGGAATTGCACTGGA	851	58.3
CAATACTGTGTGGCTCATCCG	905	57.7
TTGAGAACGATATGAAGATTATCACGGA	340	61.88
CAAGAATGAGAGAACCGAGCGT	596	59.48
CCGATTGAATTCCTGCCAGA	389	59.59
GCAGTCAATCAGGTGGTTGCTG	74	61.55
GTACTTCATATTGTATCATCAACGCA	176	56.21
AAGTTGGAGCGTTCTGAGCA	4910	57.29
AAGTCATTCCGCACAGAGCA	188	58.05
GGATTCTTCATTGCAGGTGTTC	415	57.26
GACGAGCAAGCATTGTTAAGGAG	222	59.06
CATTCTGTTCGTGCTTGGT	290	57.26
AGAAGCATCAGAGCCAATATCAGC	272	59.85
AGAAGCATCAGAGCCAATATCAGC	402	59.85
CCTCGTCATCATGTCTGTCTTCG	95	60.63
TCGCCATCTACTTCCTCGTCA	62	59.41
CAATGGCTTCTGGTTCATCC	277	56.64
GAATTGTTGAAGAGGACGAGGA	382	57.01
AAGAGGAATTGACACTTAATATCACAAG	1152	56.55
CAGATGTGATGAGTGTGGATGTAAC	423	57.16
AAGACTGAGAACAAGCAATCGC	1191	57.38
AAGACTGAGAACAAGCAATCGC	1191	57.38
GACATCACGACTCCATCCAGA	1278	57.08
GATGGAACACTGGCTGGAGA	179	57.23
GATCAGAGTGGAGTTGGATGTAGA	209	56.08
CTCACACAATCGCAGAGCAA	60	57.15
TCCTTGAAGATTCGTGCTCGT	626	58.53

ATAACAGTAACACACCTCATTCCG	89	56.02
CAGGTGGTGAAGTTCTCTCTG	681	56.81
AGAAGTCATGTAAGTGCCTCCTTC	1028	56.84
AGAAGTCATGTAAGTGCCTCCTTC	1028	56.84
AGAAGTCATGTAAGTGCCTCCTTC	1038	56.84
AGAAGTCATGTAAGTGCCTCCTTC	737	56.84
AGAAGTCATGTAAGTGCCTCCTTC	737	56.84
AGAAGTCATGTAAGTGCCTCCTTC	747	56.84
GCTCACTCGCTCACTTCGCT	62	59.48
GCTCACTCGCTCACTTCGCT	62	59.48
AATAACCTTCCGCTTGATGCT	1004	56.67
CGTGGCAATTGAAGAGAGAGC	1148	58.67
AAGTGGTGATAAGCGATTCTACATTG	580	58.72
GATGAAGAACCAACGCCGAGA	194	61.07
GCTGGACTTGACTCGGCTGA	1365	60.1
AATGCGGTCAAGAGTATTCGC	57	57.96
CGCTTCTTCTTCCAATACTAATTC	42	59.01
TTCAATCTTCCAGAGCAGACAGC	539	59.61
TATCACAGAGCAACACAGAAGCG	542	59.17
CCCACTGTTCAACTTCCGAT	1029	56.23
TTATTGTCAATGCTGGAATGGTT	438	57.2
GATTCGTCGTCATGGCAGAC	21	57.68
GCCTCCGTAACCACTACACCA	126	58.57
TTATGGACCGTTATCATGTCACA	818	56.55
TTATGGACCGTTATCATGTCACA	818	56.55
GGTGTACCACTGGCTATTCAATTCTAC	336	59.29
TTCTTAATCTTCCGGAGCAAGG	509	58.5
TTCAATTATTCAATCTTCAGGATCAG	507	56.75
CGCAACTGACCACCTATTGAG	48	56.97
GCCTCCGCTAGACATTATGG	56	56.05
AATGCTCGCTCGTGAGGAAC	1628	59.03
GGTAGATGGCTTGTCGGAGA	41	56.39
AATGCTCGCTCGTGAGGAAC	1717	59.03
CGGATGGAACCAACTGACAA	169	57.99
GCAACCGCCTACGAGTGTCA	256	60.8
AATGAATTATGTTACAGGATGGCA	740	56.37
AGGTCGCAACTCCTCGCAAT	37	60.73
AATTCATTCGAGACACCATAACAA	40	58.42
ATGAGGAAGAGAGGTGACCTGATG	66	59.6
TACGAAGACCACGTGTCTTCAGTA	49	57.62
CCAGCGAATAGATTGATTACAACACT	76	58.72
TTCAGTCTATCAAGGTCGTCAATC	965	56.21
GCTCGTCCATTCACTTATCG	191	58.33
GCTCGTCCATTCACTTATCG	191	58.33

GCTCGTCCATTCACTTATCG	191	58.33
ATCGCCGTCATCAAGCAGTC	1338	59.81
ATCCAACATTGACAAGTACTCAGCT	411	61.05
ATCGCCGTCATCAAGCAGTC	620	59.81
ATCGCCGTCATCAAGCAGTC	343	59.81
GCTCGTCCATTCACTTATCG	191	58.33
GCTCGTCCATTCACTTATCG	191	58.33
TTCAGTCTATCAAGGTCGTCAATC	169	56.21
CTCACAATGACAACTCTGATCACTACA	402	58.44
CTCGGACGGAGTAACTCACAA	24	56.55
ATCGCCGTCATCAAGCAGTC	668	59.81
CGATTCTGGTCTGTTGATGATTCC	664	60.64
GTTCCGCTGGTTCGTGTGAG	307	60.26
CGTGAATAAGGATGGAAGTGTCA	235	57.73
CGTGAATAAGGATGGAAGTGTCA	356	57.73
TATCTACGCTACGACGGTTCTCTTC	139	59.03
TCGGACTCTGATGGATGTTGA	186	57.66
GTGTTCAATACCGATTCAGATCC	56	56.24
AGCATCCTTCTCCAATAACGA	41	56.76
TTCTTGGCACCGTTCTACCG	648	59.69
ATTCTGACTATTGGATACTATGCAGGAT	502	57.85
GACAGGCTAGTTGGCTAACCAGTAC	41	58.52
CGATAGTTATTGTCAATCTGCTGGAG	632	59.24
CGATAGTTATTGTCAATCTGCTGGAG	85	59.24
TTCTGGCTGTTCTCACCGTCA	173	60.39
TTCTGGCTGTTCTCACCGTCA	173	60.39
ATCCAACCTCGTAACATATTCTTACACCT	1463	57.82
TGAGAATACCACGGAATGTCTTG	174	57.73
GGTGAAGCCAAGCAGGAGAC	195	58.47
GGTGAAGCCAAGCAGGAGAC	111	58.47
ATTGTGAGCGGTGTGACGAC	1777	58.16
TCGTTCAATTATTCAGCTATTAGCTCTCG	697	61.17
CGGCATCAGATGTTCTTG TG	235	56.28
TTGACCACACTGCTCGTAGGT	45	56.93
CAACTGTTAAGCCAATCAGCAA	711	56.78
CGACCAGAGTCACACCGAGA	656	58.39
AAGAGGCTTGTGAATCAGCTTGC	231	60.82
CCACAAGTGCGAGTGTCCAG	245	58.89
TACTGCCAATATTCACATCAATCCTC	1090	59.29
CAGGACTTCCAGGACCACAA	778	57.13
CAGGACTTCCAGGACCACAA	463	57.13
CCAGCAGCTTATGGAGATGC	692	57.14
TCGGACAGCCAAGAGAACAAG	543	59.05
CTACAATGGCCGGAATTCCTT	118	58.93

AAGAGATGTGACGGTGAACGA	333	56.83
GGTTGATGATACGATACTGATGAGA	2406	56.02
GGTTGATGATACGATACTGATGAGA	2438	56.02
TCAAGCGGTTACGGAAGGTT	880	58.31
TCAAGCGGTTACGGAAGGTT	912	58.31
GAGGAGGAGGTGGCGGATAC	920	59.49
ATTGTGATGTTGATATCGTTGTCG	165	57.57
CATATTACTCGCGGACTATGGTC	62	56.55
GGAGACAGTGGTGGTGGAGTT	807	57.53
CTACGACTGACTATGCGAAGAGAC	11395	56.21
CGATTGTTGCTCTACAGTCTG	101	56.43
CAGTGATGATGACAGTGGTTGGA	14248	59.46
GGTCCATAGCCTTCCAGACA	782	56.23
GGTCCATAGCCTTCCAGACA	709	56.23
GGTCCATAGCCTTCCAGACA	702	56.23
GGTCCATAGCCTTCCAGACA	717	56.23
TCCATTGCCTTCCAGACACT	737	56.75
ATCATCATTGCTCACAGGCTTA	1750	56.11
GGTGTCACGAGATGATCGGAAT	194	59.79
AACGAGCACACCACTCTTATCC	230	56.97
AATGCGTAATATGACGGTCAAGT	94	56.47
GTCTCACACAGTTGCTTGGTCAG	94	58.51
GATCGACAATCGTGCAATCTC	798	56.81
GATCGACAATCGTGCAATCTC	489	56.81
GATCGACAATCGTGCAATCTC	579	56.81
GAATCTTCTACGCACACGAAGTTGA	608	60.6
GAATCTTCTACGCACACGAAGTTGA	608	60.6
AAGAGCCTATGGTTGATGTTCC	271	56
CAATGGCTGATACTGGCTT	1994	56.47
ACACGCTTCCACGGATCTTCT	170	59.71
ACACGCTTCCACGGATCTTCT	170	59.71
GCACCACTACCAGACGCAGA	459	58.48
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ATTGATGACTGTTGAAGATGGCT	393	56.48
ATTGATGACTGTTGAAGATGGCT	248	56.48
TTCTCTGTCGCTCTATCTCTTCT	468	56.19
ATTCTGCTCCAACGGACAAGT	827	57.4
ATTCTGCTCCAACGGACAAGT	825	57.4
ATTCTGCTCCAACGGACAAGT	322	57.4
AAGCAGTGGAGAGGCGTAGC	1754	58.3
CGACGGAGATGGACAAGTCAA	450	59.68
AATACTCACTGCATCACACCAGAG	598	57.06
TACGGAACGAGAATGATGGC	153	57.23
GTGTGTGTGTGTGTGATCCAGTC	63	57.4

GTCATCGGCTGGTGCTGGTA	1338	60.63
GTCATCGGCTGGTGCTGGTA	1409	60.63
GTCATCGGCTGGTGCTGGTA	1338	60.63
GTCATCGGCTGGTGCTGGTA	1409	60.63
TTAGCCACTGATGATTGCGATT	289	58.33
GCACAACTTATTCTTGATGCACTGG	589	60.81
TTCAATAGTTCACCTGGTCTTATATCG	617	57.9
TCAGCACAGATTGGAAGCACAG	337	60.01
TGTCCATATAACCATCTCATCGAATCC	37	61
TAGATAGTCTAGCGAAGATATGTGATGA	53	56.01
TATTGATGTGAAGGTGAACGGA	165	56.7
TATTGATGTGAAGGTGAACGGA	162	56.7
CGCCTACTCGAAGTCGCAAC	417	59.6
CGCCTACTCGAAGTCGCAAC	52	59.6
ACATGTCGCACCAATTGTTCC	546	59.3
ACATGTCGCACCAATTGTTCC	532	59.3
CGCCTACTCGAAGTCGCAAC	51	59.6
ACATGTCGCACCAATTGTTCC	542	59.3
AACAGGAGGATCCATTGGTTCA	146	59.27
AACAGGAGGATCCATTGGTTCA	146	59.27
GCAGCGAATGATGAGAACAGT	1301	56.62
CGAAGATCCACGATTCATGTGTT	277	59.83
GGATACTACAGACCTTCTGGATTATCAC	1267	57.82
ACCGAGATATTGGCAGAATGAC	516	56.81
GGCAATGACAACCTCAATATATCACA	391	59.96
AGAGGCGACATTCGAACGAT	998	58.35
TCTTCGCCGTGTTCTGTTCT	1546	57.13
GTGTTGCTTCGGTCCTCGTC	601	59.29
GCAATGAAGACGATGAGATTGATC	2455	58.71
GCAATGAAGACGATGAGATTGATC	2311	58.71
GCAATGAAGACGATGAGATTGATC	2120	58.71
GGACATATTCGTCAGAGACTGTGA	795	56.97
TTATGCTGCTCAACTGGCTGT	349	57.27
AACACGGAAGAGACGACACG	189	57.38
TTGATGGAAGGAAGGCTAATGTC	369	58.26
TTGATGGAAGGAAGGCTAATGTC	321	58.26
GTTACTCTGCCAATGTCTTGAATG	517	56.66
CAGGAGTAGAAGAAGAAGGAGGTAGC	46	58.42
CGACTTCGGATGTTGGATCA	415	58.09
AGATTCGTGCCACTCATCGC	1212	59.81
AGATTCGTGCCACTCATCGC	1286	59.81
CACCGACAATGAGATCTTCCG	176	59.13
TGAGGTGTCATCACAAGTTATCG	67	56.38
CTCTCCGACAACACACCACCA	177	60.56

CGAGCACCATCTCCGATCATAC	225	60.43
ACACGGCTGTTCTGTACTAATAGACG	80	58.9
CGAGCACCATCTCCGATCATAC	80	60.43
CGAGCACCATCTCCGATCATAC	299	60.43
CGAGCACCATCTCCGATCATAC	80	60.43
TTCGGCTACCATACTCACTTGG	457	57.88
CCGAACCGACGTAAGAGCACT	470	60.25
AATACGACGAAGTCGCTGCT	550	56.36
ATTCTTCATGTCTGCGTATGTCATAG	571	57.55
AGCAGAGGGCGACTGTCAATG	626	57.64
TGAACCGGACAATGATCAAGA	74	57.59
CAGAACAAGGAAGTATGGAAGAACG	3483	59.22
CAGAACAAGGAAGTATGGAAGAACG	3481	59.22
AATGGAGAGTGGTGTTCCGA	25	56.59
ATGGACGGAGCGCAACACTT	919	61.53
ATGGACGGAGCGCAACACTT	960	61.53
CGATCTTCTGTATATTATACCAATGGAG	271	56.77
CTAGCGACGGATTCTCTGTGA	92	60.34
CTCTCTGTGCTCGAGGCAAG	166	57.51
GCAACACAGAGAAGCTACAGTCA	68	56.08
ACTCCTGCTCCTCCTCCGAA	42	59.91
GGTCGACGATGGCCTCAATC	238	61.34
GGCTATCGAACTACATGGAGCA	129	57.97
CAAGGTTGTGAAGGTCAAGGAC	387	57.29
CCACATCTGATGGTGATAATATGG	2012	56.91
ATGGTAACAAGGACAGTTGCGAT	1806	58.57
TTGACTCTCGGTAATAATGTCACAA	89	56.64
ATTACATACTTCTCCAACACAAAC	246	56.61
TACCATCAACTACTGCTAGTACTTCTGA	194	56.08
AACTGACGGAGAACACGGAGT	486	57.37
TCATGGTCACTTACAGAATCGG	169	56.3
TCAGGCATAAGAGGACGCATAC	395	57.97
GGTGGAGGTGCTTCAACATC	656	56.59
TTGTTGTTCAATTCGTGTGTTGTTAG	614	57.84
CATGTCACAAGCCATCGAGGAA	287	61.87
TTGTCAATTCGATGTGATGAAGAAG	1131	59.14
TTGTTGTAGAAGATCAGAATGTTGC	539	56.39
CGTGGATTCATTACAGTTGGC	1114	56.71
AGCAGCCACCAACGTGTATG	1081	58.25
AGCAGCCACCAACGTGTATG	1099	58.25
GGCTCTTGTTATCACTGTGGCA	159	58.84
GTCGTTGAACATGAACAAGATGA	63	56.35
GAAGATGGACGAGTTGGTAGCA	470	57.93
GCTGATGGTCTTCGTATTGGA	990	56.37

GCTGATGGTCTTCGTATTGGA	994	56.37
GAAGATGGACGAGTTGGTAGCA	466	57.93
GCTGATGGTCTTCGTATTGGA	478	56.37
GCTGATGGTCTTCGTATTGGA	775	56.37
GCTGATGGTCTTCGTATTGGA	476	56.37
GCTGATGGTCTTCGTATTGGA	1020	56.37
GAAGATGGACGAGTTGGTAGCA	441	57.93
GAAGATGGACGAGTTGGTAGCA	340	57.93
GAAGATGGACGAGTTGGTAGCA	423	57.93
GCTGATGGTCTTCGTATTGGA	988	56.37
TCATGTGTTCAATGATATTGTTGTAGA	1046	56.5
GATGAAGTCTGTTATTGATGTGAAGTTC	73	57.54
TGTTATTGAATCCGTTAGTAACGACGT	137	60.03
TTGGATATGGTGAACCTACAATAACAGA	557	58.14
GTCAACGATATTCCACAGGTTTCATC	808	59.61
GTCAACGATATTCCACAGGTTTCATC	1051	59.61
GCAGGAAGAGGCTCAGGATAGG	2145	60.29
AATGTCACATTCAATTGTAGGTAGTGT	54	56.12
CACACTTCTTCTGATTGCTTGC	116	56.4
CACACTTCTTCTGATTGCTTGC	38	56.4
GCTACACTTGCCAGTATCGGA	1194	56.62
TCACTCCGTAGATATTGTTGATTCTG	1546	57.53
CAACTTCACTGTCGCCTCCA	563	58.45
CAACTTCACTGTCGCCTCCA	695	58.45
AACGAGAACATCTTCTGCCTTC	226	56.35
ATAAGAAGACAGACGGATGATGG	53	56.02
GTGTTGGAAGCCATTGGCTT	156	58.63
CCTGCTTGTCATCGGTCCAT	41	59.51
CCTGCTTGTCATCGGTCCAT	41	59.51
TTATGAGCCAGCATCAAGTGAA	288	57.14
ATGTTGTCACTCTCCTTCTTCATCT	1259	56.33
ACTTCATCGTAATCAACTTCACCTT	140	56.3
ACTTCATCGTAATCAACTTCACCTT	140	56.3
CCTTCAGGATCATCAATGCC	368	56.58
CCTTCAGGATCATCAATGCC	368	56.58
CGTAACTTGTCGAGAACATCAC	1053	57.42
CGTAACTTGTCGAGAACATCAC	878	57.42
CGTAACTTGTCGAGAACATCAC	954	57.42
CGTAACTTGTCGAGAACATCAC	1059	57.42
GACTCAAGGTCAAGGAATACGAGCT	308	60.11
GAGTGAGGAATGAGCATCAGTTG	303	57.54
GAGTGCGGAATGAGCATCAG	307	57.99
TTGCCACTGCTCTCATACCA	572	56.45
CTGATAGTTGGTGGTGGTATGGTG	1365	59.17

TGGAAGAAGGTGGACAAGATG	224	56.29
GCCAGCAGAAGTGTAGAGGAAT	1798	56.38
AAGAACTTCGGAGCCAATGC	401	58
GTCGCCAAGGAAGTCATCAGG	702	60.58
TTCTATCACGTTAGCGATATCAGCA	838	58.99
CCGATTGGATGGAGAGACAT	160	56
TGCCTGCAATATTCTAACTCTTCTCA	526	59.45
CATCGGCTGGAGGATATATGG	1073	57.97
CATCGGCTGGAGGATATATGG	1110	57.97
CATCGGCTGGAGGATATATGG	1090	57.97
AACTAGATGGTGACACTTGGCAT	245	56.42
CAGCTTCACCACTGGTACTCAA	144	56.62
GGAGTTGGAGCATTTCGCATA	608	57.38
TATTATGTTGTTTCATTGTGATTGGTG	805	56.72
TTGCGGATGTCAGGATAAGGA	659	59.11
TTGCGGATGTCAGGATAAGGA	659	59.11
TTGCGGATGTCAGGATAAGGA	659	59.11
GCACTGCTGTCCGAATGGAT	664	59.66
GCACTGCTGTCCGAATGGAT	664	59.66
AATGTAACAGTAAGAAGCTGGACACG	343	58.88
CCAATCACAGCAGTAGGAGCA	162	57.58
CCAATCACAGCAGTAGGAGCA	147	57.58
TAATGGATGGCTACGGCATAGAC	782	59
TAATGATGACGCTCGGTGCT	753	57.93
TGTAACACGAAGAACCGACTGG	108	58.75
TCTGCTCCAACATCACTGCTG	1785	58.61
TTCAGTCAGCCAAGGAGCGA	323	60.62
GCTGGAAGAACGCAGAAGGC	592	60.97
ATATGTTTCATCTAGCAGTCTGTTATCCA	94	57.61
TTATGGAGGACACGAGCAGGA	908	59.27
GGCTCATCCACAAGGTCCT	206	56.16
GGCTCATCCACAAGGTCCT	206	56.16
GATGTGCTCTACGCCGCTGA	2797	61.05
TCCGACGAGAGCAAGACAAG	723	57.77
CGAACGACTGGCACATAGGTA	51	57.39
CGTTGGCGTTGATAAACTG	173	56.35
TGCTTCATCGTCCTCTGCTC	386	57.71
AGAGTTGAAGAACGACTTCTCACACA	788	59.51
TTGATGTTGAGAAGGCAGCA	456	56.58
TCCAGATGAGACGAGTTGTAGCA	87	58.6
TATGCTGGACGACTGGAAGAG	1660	56.63
CTTCTTGGTCTTGTAGTAACGCTTC	478	56.75
TTCTTATTCAACGACTGATTCCAA	1580	56.68
GAAGCCGAACGTAGATTCATTG	244	57.52

CGTGCAATCTGGAGCTGTGA	92	59.56
AAGTTGGAAGTGGTAAGCGACA	621	57.55
AAGTTGGAAGTGGTAAGCGACA	618	57.55
GCTGATGCTGAAGAAGGAAGAGTT	179	59.18
TTGACACAATGTTGGCTCCTT	246	56.79
GGAAGCTCTAGCAACGATGATGG	537	57.44
AACGACACTATCAAGAGCAGAATCAC	503	58.92
AGGATTCACTTGCCAACTCG	541	56.46
ATTCCAGCTCAGTGTGTGCTTAATACTG	85	61.83
CTTGTCGTCGTTGAGCAGTG	1222	56.63
CTTGTCGTCGTTGAGCAGTG	1222	56.63
TCTGGCTGGTACTTCTGGAGA	569	56.2
TCTGGCTGGTACTTCTGGAGA	902	56.2
CTTGTCGTCGTTGAGCAGTG	1399	56.63
CCAGAAATGCGGTTCAACTGA	180	58.3
CCAGAAATGCGGTTCAACTGA	217	58.3
AAGCGAATTGTGCACGGTGA	104	61.17
GATGGTAGTGAGGAGAGTACCTACACC	110	58.63
GATGGTAGTGAGGAGAGTACCTACACC	133	58.63
TTGACGTATGATAAGTTGTTGAGCA	533	57.59
GCAACTTCAGGAGTACAACAACG	760	57.61
GAACTCCACAGCTGCACTCA	98	56.07
CCATTCTCTACGCATTCCTT	945	56.94
AAGGAGACCACAATGATACTGAACA	718	57.77
CTGCTCAGAGTCGACGTCTTCA	689	59.37
CCGCTTCATTGTTATCGCTT	671	56.65
GACGATTGCAGCAGGAATACAG	237	58.47
CATTAGAGTACATGCGTCAAGTATTGG	505	59.09
CAGTATTACTTCCTTGCCACGTT	544	56.29
GGATGTAGTGCTCTTGCTGTTGT	997	57.19
CCATCTGATTACACAGGTGATTCG	90	59.37
AGGACTGTCTCTGATTATTGTTGGA	185	57.07
ACTCATGGATCGTGAATACAACAC	646	56.67
ACTCATGGATCGTGAATACAACAC	646	56.67
CCAGCGAGGATGAGGTAGAG	71	56.15
CTTCAGCCAATCACTCAACAATG	36	58.37
AATCTCGTCAATGTTGCCTCTG	1617	57.93
ATCAGAAGAACCATCAGAATCTGG	473	57.41
CCAACAGCAACAGATGACTCC	248	56.83
CCAACAGCAACAGATGACTCC	248	56.83
GCATTCCATTGAAGCAGACAT	234	56.37
CATCCACCGATTCCATCAGTA	357	56.94
CGACGGACTGTTGAGAAGACA	90	57.53
CCATCTGGTAATGATCTAAGCCGTA	52	59.41

GAGGAGGAGATTATTGAGGAGGA	426	56.63
CCAGAGGAGGCAGTGATTGAG	73	58.48
GAGGAGGAGATTATTGAGGAGGA	426	56.63
ATTCGGCGCTCCATAGCTTA	247	58.56
GAGGAGGAGATTATTGAGGAGGA	426	56.63
GAGGAGGAGATTATTGAGGAGGA	426	56.63
CCTTCGTTCTTCTCGTCTCG	47	56.34
CCTTCGTTCTTCTCGTCTCG	47	56.34
CCTTCGTTCTTCTCGTCTCG	47	56.34
ATTGGAGAGAGTGTATAATGAGCAGAG	53	57.43
GGTGTTAATAACGAGGATGGAGA	945	56
TTGCTGTATTGTTCTATTGTGCTGT	184	56.85
GGTGTTAATAACGAGGATGGAGA	996	56
GGTTGACGTGGAAGAATTGG	517	56.55
TCCTATCCGTTGAAGCCGTT	987	58.26
TCCTATCCGTTGAAGCCGTT	1117	58.26
TCCTATCCGTTGAAGCCGTT	1017	58.26
TCCTATCCGTTGAAGCCGTT	1147	58.26
GACGACGACACGCAATCACT	696	58.32
AAGGATGCAGAGTAGTGTGACAGTT	951	57.25
GCATCTATGAATATGGATCACACAG	484	56.41
GGTTCTTCTTCGTTGCGTCTG	64	60.24
CAGGTGAATAGCGGTGCGAT	497	59.68
CCTGATGAATACTCGGATGATTGTGT	485	61.19
GACTCCGCCAAGAAGCCTGA	1767	61.37
ATTGAGCGATGCGTTGTGTGA	37	61.19
GATGGAAGAGGAAAGTGGTGGA	1845	57.62
GATGGAAGAGGAAAGTGGTGGA	1905	57.62
GATGGAAGAGGAAAGTGGTGGA	1686	57.62
ATGGCTTACAACATGATTGATGAGTAC	129	57.13
TTCTCTCGTTATCTGGTTCGTTCTG	225	61.22
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ATGGAAGGCGAGAAGAAGAGA	391	56.84
CATGGCTCTTACCTGCACCGA	52	62
AGTTCCTCTTCGCTCTTCTCTC	83	56.41
AAGTTCCTCTGCGCTCTGCT	63	58.04
TTGCCGCAGATACCTATGGA	280	57.8
TTGAGGAGTTGGAGAGGATCG	495	57.92
TTGCTGCGGATACCTATGGAA	302	59.16
CCACTACTTATCACTTCGCTTCACG	234	60.16
GTTCCAGTCACCACTACAACCTG	365	57.25
AACCTCAGACTGTACCAGATGTGC	258	58.33
TACTTCACGACGCAAGTTCAGC	47	57.79
TGCAGATACATTGGCTCAACG	1284	58.39

TGCAGATACATTGGCTCAACG	1350	58.39
GTCAGTAGTCAACCGCAACAAC	64	56.03
CCAAGAGTTGATGGAGTTATCGAA	93	58.31
TTCCGACGAGGTCTGCCTAT	79	58.35
AAGCGTCTACTCGTACTGCATTG	207	57.44
GTTGAAGATGTGGTTGTTGACG	462	56.71
CGAACAGGTCAAGAAGTTGCTCA	922	60.39
CGAACAGGTCAAGAAGTTGCTCA	942	60.39
CGAACAGGTCAAGAAGTTGCTCA	922	60.39
AGAAGACGACGACGTTGCTG	90	57.7
GAAGAAGAACAAGAATGGACGGA	1256	58.36
GAAGAAGAACAAGAATGGACGGA	641	58.36
GAAGAAGAACAAGAATGGACGGA	865	58.36
TGACTATTCATGCGTGTAATCTTCA	500	57.54
TGACTATTCATGCGTGTAATCTTCA	500	57.54
TACTGTAATTGTCATTGTTGCTGTCG	144	59.17
TACTGTAATTGTCATTGTTGCTGTCG	69	59.17
TGCTAACGAGAATGCAAGCC	75	57.74
AAGAGACAGAAGATGCGGACGA	508	59.97
CAATGTATGCTGGAATGATGCC	659	58.9
GTTGTCGTGAATTGCGGTGA	78	59.13
TTGTTATCGCTCTTCAGTCGGA	148	58.58
GCCAACCACGACAAGCATTG	620	60.08
AGACTCAGCCAGATTATGCGTT	1598	56.78
AAGATTGCTGCTCTCGCTGA	236	57.54
GAGTCACTCCAACCGATCAATG	1756	58.11
ATGGTTAGAGGCGGTGCTTGT	59	59.61
TGTGAGATCAAGTACAGTCTTCAAGC	810	57.85
TGTGAGATCAAGTACAGTCTTCAAGC	810	57.85
TTAGAGATGCGGACCAAGAGG	566	58.01
CTTATGCGAATCTTACGTGAAGC	260	56.98
TTCTATTCATTGCTGGAGTGAAGTCTACC	903	60.94
CGGTAGATGCTATCTTCTGTTG	807	56.76
TGCCACAAGGACATCAACCG	1454	61.45
TATGGTAGATGCTCCTGTTGCG	786	58.85
TATGGTAGATGCTCCTGTTGCG	836	58.85
TATGGTAGATGCTCCTGTTGCG	1058	58.85
AAGAATGCAGCTGCGGAGAA	371	59.68
ATACTTATAGAGCAGGACTCGTCGGA	2531	59.68
ACGAGGTGAACGAACGAGAA	406	56.98
ACGAGGTGAACGAACGAGAA	406	56.98
ACGAGGTGAACGAACGAGAA	457	56.98
CGAAGCCTGGAAGTGTGGAA	288	61.08
CGCTCTTCTCGCAGTTCGTAA	175	59.37

TTCCGATCGATTGATGCAAC	1039	58.1
ACCAGTCCAACCACAATCCA	1111	57.26
CGCACAAGATCATGGTATTAGC	448	56.12
CGCACAAGATCATGGTATTAGC	448	56.12
CCTCACGGATGATGTCACATG	58	58.38
ATCTGCTTCTGCTGGTGGTT	1300	56.04
CTCCACCACCTCCACCAAGA	30	59.51
ATCTGCTTCTGCTGGTGGTT	1222	56.04
GTTATTACTTCCATCACTTCAGGCT	950	56.01
AAGAATGTTGTGATGTTGGAGAGC	453	58.31
GTCTCTCACACTCTCCGTTCCG	36	59.87
GTCTCTCACACTCTCCGTTCCG	67	59.87
TTCGTCAGTTCCAATCTCTTCA	602	56.15
GTGATGTTCACTGTTATTGGAGGATT	1021	58.42
TATATCAGATCCGATGTAGAGATAATCG	84	57.18
GCACATACTTCACACATAATCAACAC	615	56.46
GCAAGATGTGGCGAGGAGAA	400	59.92
CACAGAACCAATCGGCTCAA	621	58.3
CCAGGTTACGATAAGTCAACTGC	290	56.68
CGATTCTGGTGGTGTGCTC	329	61.08
GATGATGTGATGTGCAACACG	312	56.97
GCTTCGTAGTTGTGTGCTCTGA	383	56.92
ACTCGTGACAGGAAGAAGATTATGAC	619	57.99
TGGAGTGTTGCACATCACATCG	49	61.51
GCTCAATAGATTCACTGTAGTGTGCT	331	57.03
CACCTGTGGCGAGTGGAGTT	827	59.73
TATCTGGAATAACTATGTGGCGATT	609	57.01
GTTGACTGTCGCCATGTATCC	890	56.59
AGACTTGTAGAAGCATCGCCAA	432	57.77
TTGGACCTATGAAGCGGATC	870	56.29
CAAGTGTTGAATGTGAGATTGGA	1399	56.35
CTAAGGTCCTCTTCTCCACTGCTTG	35	60.69
CCAAGGTCAAGGTCGTCAAG	44	56.82
CCAAGGTCAAGGTCGTCAAG	45	56.82
CCAAGGTCAAGGTCGTCAAG	67	56.82
CCAAGGTCAAGGTCGTCAAG	45	56.82
GATACAAGAAGGTTCTCGTCCAA	162	56.19
CCAAGGTCAAGGTCGTCAAG	70	56.82
GCCTGCTTGTGTTGTGTGTA	80	59.36
GCCGACTTAGAGCAGGAGTTG	1090	57.83
CCAACCAAGGAGGCCAGAATC	128	61.62
CCAACCAAGGAGGCCAGAATC	128	61.62
ACGTCGTGCCAACCAAGGAG	95	61.96
ACGTCGTGCCAACCAAGGAG	95	61.96

CCAACCAAGGAGGCCAGAATC	129	61.62
CCAACCAAGGAGGCCAGAATC	129	61.62
ACGTCGTGCCAACCAAGGAG	96	61.96
ACGTCGTGCCAACCAAGGAG	97	61.96
ACGTCGTGCCAACCAAGGAG	31	61.96
CCAACCAAGGAGGCCAGAATC	129	61.62
CCAACCAAGGAGGCCAGAATC	129	61.62
AAGAAGAGAATTGTTGGTTCTAATGC	1640	57.34
AAGAAGAGAATTGTTGGTTCTAATGC	116	57.34
AACAGTCAACCAATCCGTATCG	212	57.61
TGCTTCAGAGTCGTGTGTCG	75	57.11
GAAGGCTGTTGCTGCTGCTC	3777	59.87
GAAGGCTGTTGCTGCTGCTC	3768	59.87
GAAGGCTGTTGCTGCTGCTC	3766	59.87
GAAGGCTGTTGCTGCTGCTC	3883	59.87
GAAGGCTGTTGCTGCTGCTC	3757	59.87
GAAGGCTGTTGCTGCTGCTC	3874	59.87
ACTTGCTTCGGAGACGGATT	3533	57.47
ACTTGCTTCGGAGACGGATT	3650	57.47
AACTTGCTTCGGAGACGGAT	3529	57.47
AACTTGCTTCGGAGACGGAT	3646	57.47
ACTTGCTTCGGAGACGGATT	3544	57.47
AACTTGCTTCGGAGACGGAT	3540	57.47
GAGGATATACCATGTCTACAGGTGTCAA	42	59.59
GCTCTCCGATTGGCAGTGTG	36	60.37
TAAGGAATGTGGTTGGAACATCATAG	911	57.39
CGGCTCATACAACGGACAAG	1145	57.84
AGACTTCAACAGCACAAATCCTTC	311	56.28
ACAATAATGCCAATAGTGAATAGAGC	421	56.08
TGCACCACACAGATGTTCTGA	299	58.21
CATGTTCTAGATCTTGTGAAGTTCC	457	59.12
CACTAACACTATCCGACTTGCCA	90	57.95
GTCAACGGACCAGAACTAATACAGTA	267	56.73
GGCATATCATCACCAATCAGG	699	56.43
CATTGTGCCAGATACGGAGTT	336	56.32
TTATTCCGTCAATGCTACCGTT	179	57.35
TTCTAATGGCTGCTAATGCTTCG	412	59.51
GCGAGGATGCTGAACAACAATC	536	60.58
ACTGGCTAACTTGACAACAACCGA	2392	60.86
ACTGGCTAACTTGACAACAACCGA	2392	60.86
ATCATCAGCGAGAAGAATAATCAGA	2397	57.41
AGGATGGTTCACGGCTGCTA	215	59.29
CAGTTGAGAGGCAGCAGTGTC	2308	57.27
CAGTTGAGAGGCAGCAGTGTC	2421	57.27

CAGTTGAGAGGCAGCAGTGTC	1164	57.27
CAGTTGAGAGGCAGCAGTGTC	2121	57.27
CAGTTGAGAGGCAGCAGTGTC	2430	57.27
CAGTTGAGAGGCAGCAGTGTC	954	57.27
TCTGATTCTTGTGGCTATTATGACTG	257	57.65
TGGTCTTCTAGCTCTTGGATCTACC	625	58.19
CGAGAAGACACGGAAGAGAGTATG	401	58.23
GTCTTCTGGTAATGGTCGTTTCG	66	57.35
GACGGCGTTCATCGTTGTTG	119	61.04
ACCACTATGTTCCAGAGCCGTA	142	57.38
GCGGTAGCATCACATACTGGT	722	56.34
GCGGTAGCATCACATACTGGT	720	56.34
TTCTCTTCTCCATCCATCTATCGTC	52	58.77
AATTGTTACTGCATCACATATGACGT	47	57.7
AATTGTTACTGCATCACATATGACGT	92	57.7
AATTGTTACTGCATCACATATGACGT	105	57.7
TCAAGCCTCCAACGAACCAC	310	59.67
GTAACCAATCGCTCGCAGCA	617	60.87
CGTCAACCAACGTGATGTCTT	212	57.18
TTACGTGGCACCTGAAGTAATTGC	80	61.13
AGCCGAATCCTCGACACCAA	509	61.48
GGTGGATAGATCGAAGACAATCG	81	58.58
CGTGTGAGAGTTGTGATGGC	88	56.21
AACGATGTTACGGCGAACGG	1252	61.7
ATCTCTTGAAGTTGATGTGGACAC	50	56
TTACGTCATGCACATTAACCTG	1142	59.51
GCGTTGGACATTCTTCTGGT	84	56.3
TCTTGGAGTCTCAGCTCATGC	82	56.8
GCAGTTCCGCTTCAGGTCTATC	154	58.98
TTATGCTCATCTGCGTCGCT	66	58.23
CTCAATCTCAATCTGGTTCAAGGA	90	58.37
CGGAGCAACAACAATCGGAAG	325	61.45
TCTATGAGGATGACGACGAGGA	181	58.35
GCAGCTTAATGTAATCTACGATTATGAG	142	57.16
TCCGTCTACTTCCTCTGCCGAT	53	61.03
CTAGAGCAGGAGTTGGCTAGAGTC	327	56.89
TTGTAGCGGTGAGCCATCTG	157	58.47
TTCGGCTTGTTGGATTATTGC	407	58.68
TTGGATGAGCGTTACAACCTCC	1499	56.44
AATGCGGAGCACTATTCGGA	437	59.26
ATCCATCTCCAACCTCCAGGTAGC	96	59.46
TGAATCTAATGATGGCTGTCAAGT	583	56.6
CCAACAATCGAAGTTGAGCAT	137	56.44
GCAGTCAGAGAAGCCGAGCA	274	60.39

CAACCTACCAATCATACGCCTTC	118	58.56
GCAGGAGGATGATGGAGAGC	221	58.37
GCAGGAGGATGATGGAGAGC	246	58.37
AACTATTACTCGCCGCCGTT	197	57.54
ATCTTGGCTCTCCTCGTGT	115	57.69
CACTTATTATAGCGGATCGTGCGT	3035	60.32
CACTTATTATAGCGGATCGTGCGT	3219	60.32
AAGAATGCCACTTCAAGTACAATAGACG	237	60.95
GCGTTCGTGCCTACCTACCT	79	57.96
TTCCTCAAGAGCTTCTTCTTCGTT	55	58.85
CGACGAATTAACCTCCATCGGATA	144	58.98
GGAGACATGCCACAAGGAAC	506	56.59
GTAAGGCTGAGAAGGAGGCAA	602	57.31
AGGTGTCGTGGTGTGCTCGT	20	60.2
GAACTATTGGCGATTATGGAAGAGG	952	60.13
AAGGAGTCGTTGGAATTATTGTTG	67	57.37
AAGGAGTCGTTGGAATTATTGTTG	185	57.37
CGTCAACAACCGCCTCCACT	657	61.96
CGTCAACAACCGCCTCCACT	584	61.96
GCATCAAGGAGCTGGAAGAAC	220	57.61
GCATCAAGGAGCTGGAAGAAC	398	57.61
GCATCAAGGAGCTGGAAGAAC	373	57.61
TCAATGCTTCACAACCTTACTCA	468	57.63
TACGAGTTAGAAGAGCCGAAGC	1666	56.77
GACGACGACTCCACCAACAAC	61	59.05
GACGACGACTCCACCAACAAC	68	59.05
CGGAGTTGATGACATATCGTCA	280	57.17
CGGAGTTGATGACATATCGTCA	86	57.17
CTGAAGAGAAGTATAAGCAGAAGTTGG	1615	57.33
CTGAAGAGAAGTATAAGCAGAAGTTGG	1615	57.33
CGAGTTCTACACCAACACCGA	553	57.34
CGAGTTCTACACCAACACCGA	594	57.34
GAAGAATCGACGTCTACAGAAGC	182	56.1
CAACAACAACCTGCCGCTCCA	105	61.74
TTCACGCATCGCTTACCTTC	1356	57.59
CACAACGCTATCGCCAACTG	1322	58.94
CACAACGCTATCGCCAACTG	1322	58.94
CCACGACAACAACAGTAACCG	197	57.67
AACAACAACCTGAGTGGTGGAGAT	91	56.34
CAGCAGACAAGACCGCAGTT	527	57.7
CATCGTCATAGCAACAGCCA	58	56.9
GAGATGTCACCTCCGAGCAAC	187	58.33
GGAGCGTCGATTGACTCTGC	178	59.54
TACCGACCGTCTATACTCGTCAA	59	57.47

CAATGCTGCGAGTTCCAAGA	1848	58.6
ATGGCTCCGTTCTTCTCTC	501	56.99
ATGGCTCCGTTCTTCTCTC	160	56.99
ATGGCTCCGTTCTTCTCTC	151	56.99
CCGTCCTTACTTGTTCTCCAAT	888	56.07
GACTGACAGCTTATGAGTCAATTCG	155	58.16
GACTGACAGCTTATGAGTCAATTCG	146	58.16
ACTATCAGAATGGCTGTCTTGGC	83	58.41
TTCAGGAGAACACAGTTGGATCA	212	58.29
CTGACAACGCATTGAGAATGACAA	288	60.98
AATGAGGATGGATGGTGCTG	383	56.98
TCTTCCACATTCTACCATTATTCCT	150	56.17
ATTCCAGTTCTTGCAGTTCCTC	1184	56.2
ATTCCAGTTCTTGCAGTTCCTC	1242	56.2
AAGAGTTGGCTCGAATGCAA	1157	57.17
TCGGAGACATTGAACACGCT	1148	57.89
CAGCGTGGATAGTAATGGACAG	597	56.07
CAGCGTGGATAGTAATGGACAG	706	56.07
CGAGCTCCATATCGTTGAAGA	163	56.68
AGCGTGATTCTGCGTGTAGC	5712	57.74
GACGAAGAGTTCCATATTGCTGA	152	57.14
GCAGTCGTACGCTGCCATTG	199	61.33
ATGCTAGATCAGGAGGTGATAGACA	39	57.17
CAACATCGTGCCGATTGAGG	97	61
ATGTGGAAGCAACGACAGAATG	277	58.7
GTCACTCACACCGTTCCAATC	495	56.51
GTCACTCACACCGTTCCAATC	496	56.51
ATGAGAATAGTGTGTGAGAATGAGAGG	93	58
TTCTCAGAGGACACATCTTCAAGTC	634	57.7
TTGGTACTACATTGTCCGATTCC	467	56.7
TTGCTGGTCACGCTTCTACG	642	58.67
GCTTCCAACGCTTCCACACA	878	60.78
TGCCACGACAACAGACGAAT	535	58.73
TCTCGAGAATGCTGGCAGTT	593	57.23
CGGTCACTGAAGAGCGGATC	51	59.39
CGGTCCTACTCGGCTCCAA	1588	61.06
TCATTCACTTGCCACATTG	1019	56.71
TTATGACTGCACCTTCTGTGCA	308	58.04
CGGCTCTGAAGAACGTAGTGTT	461	57.32
ACGGAGATTGTGTTGGCAGA	1275	57.74
AAGAGCACTGGAGGAGCATTG	1359	58.15
GGAGTGAGCAGTGTAGTCAGTTGATG	735	60.21
TGCACAACTTGAATCGGTCA	135	57.25
GGACACTTCTGCCATCAAG	191	56.75

GCTGCTGTGAGAGGATGTGC	173	58.14
CCATCGGCTATTCCATTGTGC	1218	61.12
AAGAGGAATGGATGGAGTGGAGA	503	59.9
AAGCAACGGAAGAAGGAGAAG	294	56.49
CCATCGGCTATTCCATTGTGC	489	61.12
CCATCGGCTATTCCATTGTGC	1218	61.12
CCATCGGCTATTCCATTGTGC	1218	61.12
TCACGCATCAGGAACGACTA	103	56.45
GGAAGGAGGAGGAGGTGATG	573	57.15
ACAACAACATTACAACAACCAATCAGA	286	58.18
TCGTGTGTGAACTTCCTCCA	705	56.18
TTCAGACTCACTATCTTCACATACGA	267	56.05
GGAGATGATGAGGAGACTGAAGATG	682	59.22
ATTGATGCGGATATTGAGCAGTCA	192	61.57
GGAGTCTGCCACATCCTTCC	143	58.12
GCTTATTGTGTTCAGTGACCTGTC	830	56.61
GCTTATTGTGTTCAGTGACCTGTC	750	56.61
AGCACTTCCACCATTACCATCA	1125	58.05
AGCACTTCCACCATTACCATCA	1167	58.05
GAATCTGATCCAACCTCCACCA	913	56.05
CACATCAGATTGCTGGAAGTGC	678	59.33
GGACAGGACAGAAGGAGGCT	1420	56.96
GGACAGGACAGAAGGAGGCT	1420	56.96
GGACAGGACAGAAGGAGGCT	1105	56.96
GGACAGGACAGAAGGAGGCT	1105	56.96
GTATTCGTGCATGCTTGCCATC	221	61.31
CAACAAGAACAAGCCAACCTACT	316	56.35
CACCTGCTGCATCATCAGAA	108	56.92
CTCTCTCACTCTCTCGCCGTA	122	56.1
TCAACCAGAGACCGTTCCAA	126	57.71
GTAATCATCATGTTGGTCGGCAA	372	60.54
TCGCTAGATTGATGACCTACAAGAGTG	985	60.89
CATTGTGGTTGATTGATAGAGAAGA	968	56.2
TCAACCAGAACGAGCCGATT	309	59.26
GAACCAGCTAAGCTCGAGGACA	150	59.62
GGAGCAATACGTTGAAGAATTAGAG	117	56.61
TTCTCTTCTTGCTCTTGCCATC	3607	57.44
TTCTCTTCTTGCTCTTGCCATC	3604	57.44
CACTTGTTATCACCTGGAGACTTG	1127	56.62
GCTCCGAGTGCTCTGCCAAC	184	61.98
CGAAGCCGAGAGCGAGATAG	74	58.91
AATGGATTGAGCAGATCGAAGAG	287	58.48
TTACTGGTTGATTGGACTTAACACTTC	1397	57.91
ATCGCATCAGCAAGAGAATGTTC	2179	59.35

ATCGCATCAGCAAGAGAATGTTC	1645	59.35
CGATGAACTGGAGGATATGCTT	876	56.95
GCATCAGAGCCAGCACATTC	640	57.99
ATTGATACACCATACACTCCGACTAC	3137	56.44
TATGCCAGCCAGCGTCTCTC	1683	60.08
TGGCATCTCGTGTTACAGACAA	254	57.89
CGACTCATCAATCATTCCGTGT	584	58.52
CGACTCATCAATCATTCCGTGT	337	58.52
TGACGACATTATTGACGATACTCC	398	56.85
GTTGACCGCAAGGCTGTGAT	38	59.7
GTTGACCGCAAGGCTGTGAT	38	59.7
GTTGACCGCAAGGCTGTGAT	60	59.7
GACGATTCACACATCTTATCACAGC	59	58.7
GACGATTCACACATCTTATCACAGC	59	58.7
GACGATTCACACATCTTATCACAGC	141	58.7
TTCAGGCTGTTGTTCACTATC	448	56.67
AAGACGGAAGCGGATTCAAGT	241	58.83
AAGCCGAAGATTCACTGAGACG	593	59.48
CCACAACCTACCGACAATTCCAT	233	60.78
ACGGTGGTCAGTTCAATCAATG	413	58.42
GAGAAGCAGCGGAAGTCAAC	754	56.33
GAGAAGCAGCGGAAGTCAAC	754	56.33
CCAACCTCTTGCGATCCTGA	44	59.77
TCTGCCAGCCTACGCGAGTT	56	61.91
GGAAGATGTTGCGAGGATCACTG	998	61.79
ACGTCGTACCGATTGGATTC	287	56.08
ACACAATACGGATACCATCAGGCA	619	61.25
CCTGCGGATATTCGTTGATG	1619	57.65
TGAGAGGCTTCCAATTGAATCG	600	60.14
ATCCACAGAATCCGATGACTTG	163	57.59
TGTGGTAGATCGGCAATCGT	445	57.63
AAGATTGGAGGCGAGTGGAT	910	57.27
TGGTGCCATTATAAGAATCCAGTTACAC	175	61.29
CCAGTGCTCTCTGTTGATGGA	218	57.47
CCTTCGTGTCGTGTCTCAATC	315	56.83
TCGTCTGGTGGTGATGTATGTG	1750	57.95
TCGTCTGGTGGTGATGTATGTG	1489	57.95
TCGTCTGGTGGTGATGTATGTG	1656	57.95
TCGTCTGGTGGTGATGTATGTG	1588	57.95
ATTGTGGATTCAGGAAGTGTGG	73	58.85
CCACACCAATACAGTTATCAGGCA	183	59.76
CCACACCAATACAGTTATCAGGCA	221	59.76
TTCTCCTTCTCGGTCTCGTAGTAG	78	57.11
CGGAATCGTGTTCTCCATGA	67	58.09

ATTCCGCTGGTATTCCTTATCG	40	58.17
GTACCTGCTGGAAGAGGAACAG	780	56.71
ACTGATATGATGGTCGCCAATGC	791	61.85
ACTGATATGATGGTCGCCAATGC	721	61.85
ACTGATATGATGGTCGCCAATGC	707	61.85
GCTGTAACGGATCACATGAACA	186	57.23
AAGAAGATATCAAGCTGCATCCG	234	58.54
CAGCGTGAGGTCCGAGAAGC	658	61.96
GACATTCACTCTATTCTTCGTAATCCTC	45	58.03
AATCACAACCAATGTGAACCTAACC	513	57.18
ACGATCAAGACCTTCACGGA	140	56.75
TGTGGTCGGAACAACCTGGAA	67	58.55
ACCGCCGATCTACGCATACG	937	61.82
ACCGCCGATCTACGCATACG	821	61.82
AATGTCTGCAGGAGCTCCAA	121	57.07
CTTGATGGAAGGATCACGGA	68	57.11
TTAGTTGCACCATAACGCGT	88	56.95
AAGCAGCGGCAGTGATTCCT	645	60.86
TTCCAGACTGACGGAGTTCATC	826	57.84
GATACAGACTTCAATTGTCCACATAAGG	247	59.28
AATGTGCTCTAAGACCGTGCTC	50	57.26
TCTATTCTTCGTGTTCCCTCGCA	150	58.58
AACTGCCAACCAGGAACCTTC	260	59.21
AACTGCCAACCAGGAACCTTC	364	59.21
CGAAGCCTATCAGAAGATTGAAG	1199	56.17
TATCCGTGAGAAGATCGCCAA	71	59.25
AGTTCGTCGCCAGAGGAGGA	978	60.86
CGAGATCCAGAGTACGAAGGAAGAG	232	60.66
AGTCTTGCGGAGCGAATGTC	1281	59.03
AGTCTTGCGGAGCGAATGTC	1227	59.03
TGACGGTGTCAATTATTCAGCA	59	57.76
CTTCTATCTTCTCCGTCTTCCATC	119	56.45
ACTACTGCCTTCCGAATTCTCGAT	30	60.4
CCGTTGCATGGATGTGATTC	99	58.37
TCTAGACGTGCCAGAAGCTTG	269	57
TTATGTTGTGTATCCGTTGGATATGTTT	325	60.09
TTATGTTGTGTATCCGTTGGATATGTTT	540	60.09
AATCTGCGTCTCAGGCGTTG	351	59.98
GAATGACAACCGTCGGCTCA	391	60.61
TTACGGATTCTGATGAGATTCTGA	522	57.45
TTACGGATTCTGATGAGATTCTGA	522	57.45
GCAGAAGCAGCCTCTATTGACC	34	59.11
GGTCTAAGATTATGATCCTCTATTGACC	92	57.12
GGTCTAAGATTATGATCCTCTATTGACC	218	57.12

TATTATTGTGCCTCTGTACTACTTGCCA	441	60.25
TGCTCATTCGTGTGCTCCGT	186	61.36
CGAAGATCCGAGAGTGGATG	715	56.85
CGAAGATCCGAGAGTGGATG	638	56.85
CGAAGATCCGAGAGTGGATG	724	56.85
CGAAGATCCGAGAGTGGATG	623	56.85
AAGTCATCAGAATCAATCAACAACG	118	58.24
GCGAAGATTCTGTCTGAGATGTATG	42	58.11
CAAGAAGTTGGATGGTTAAGGAA	778	56.18
CTCGGACTAATGACTCTCGGAA	292	57.18
TAGCGATTGAACAGATGAGAGACT	376	56.12
TAGCGATTGAACAGATGAGAGACT	376	56.12
AACACTACGCTCATATTGTGGTCTGG	72	61.36
TTAGTGAAGGTGCTCTGGAATCTCT	850	58.64
TTAGTGAAGGTGCTCTGGAATCTCT	957	58.64
TTCTCGCTTCTTCGCTGGCT	145	61.22
CGAAGCAGGTCAATCACGAA	70	58.45
GAATCAAGAACAAGGAATCAACTGG	264	59.05
AACTACCGCACCTTGCAATC	126	56.45
GGTTAGAGATCACGCTGATAATTCTGC	242	61.43
GCATCTATTGTACCAGGCAGTTG	280	57.47
GCATCTATTGTACCAGGCAGTTG	288	57.47
GCATCTATTGTACCAGGCAGTTG	288	57.47
TACAGGAAGGTCGCCGGATG	968	61.84
AATTATGGCTATTGCAGGAGTCG	295	58.35
AAGGAGTGTTGACGAGAGCAGA	1700	57.8
AAGGAGTGTTGACGAGAGCAGA	1674	57.8
AAGGAGTGTTGACGAGAGCAGA	1605	57.8
AAGGAGTGTTGACGAGAGCAGA	1579	57.8
GTCACAACTCCTTCGGTCTCTGG	1199	60.99
CAGAATACTCGCAGCAGGTGA	369	57.73
CGCTCACTGCTGATCCACCA	59	61.94
AAGCCGTAGCGTTGGAAGAC	191	58.08
GAGTGCCTGAACTTCCGATG	750	56.91
AACTGACTGATGAAGTGATAGATGTGA	622	57.14
ACAATGACAGGATGCGGAAG	433	57.2
TTCCAGTATTCCATCATTTCATCG	61	57.56
TAATCTTCATGGCGGCACGAC	708	61.8
TATTCTGGATGTTGAGGAGGAGTT	457	57
TGGATTGATCGGCTTGAAGA	425	57.82
AGGAGCCAGTTGTTGATAATGAAG	70	57.56
TCTAAGTGACAAGAGATATACCACCATT	1200	56.79
TGGATCATAATGGAGCGCAA	26	58.66
GCAACCATCCGCTGTCACTT	438	59.7

GGTGGATTGAGCATTCAACTTC	1038	57.26
AGCAGAAGACAGCAGAAGGC	89	56.08
AGTGGCTTGCTGTATGAGTGC	398	56.72
AAGTGCAAGGATATTGGAATGG	361	56.77
AGGCGAGGTGCTTCTGTAGG	282	58.16
GAGTGATTACTTGTCGAGCTTGTG	181	56.9
CACCACTATTATATCACCGATCAGAG	1037	56.99
CACCACTATTATATCACCGATCAGAG	1112	56.99
TGGAGTTGTAACCTGTAGAGCATGTG	235	58.49
CGACTGTTCTTGATGAGCGA	809	59.96
CGACTGTTCTTGATGAGCGA	575	59.96
AGTGGACACACTGAATTGGTCTG	28	57.7
CTTATTCAGTTATCCTCTCCGTCAC	430	56.38
TTATTCAATTATCATCACCTACACTCG	376	56.7
GAAGTTCACGAGTTCATTGGTAGA	684	56.27
TGCAGTATAGACTTGGCACATTG	783	56.67
TCAAGAGGAGAGAGACCACGA	1974	56.19
ACAACAATAACAACAATCAAGGAGGT	199	58.07
CTTATGACTACTCAACTATCGTTGCTGA	187	58.3
CTGATCGCTGGAGCCGTTAC	310	59.43
CTGATCGCTGGAGCCGTTAC	310	59.43
GCCAGATGCTAATGACACGAA	1367	57.45
TGATGATAGTCGTGTCGGAATATCG	914	60.97
GATTCAGCAGCAGCAACAGC	2232	58.35
GATTCAGCAGCAGCAACAGC	2232	58.35
CGACGTGACATTCCACAACA	211	57.52
GATTCAGCAGCAGCAACAGC	2232	58.35
AACGACGCATTGAACGAGGA	308	60.21
GTCGAGAATGGCGTCCGTTA	145	59.66
CAACAACCACGACAATGACG	132	57.02
GTCGATGAGAATCTGATTGGAAG	68	56.53
TTCAACTATCTCCAGCCATCACT	553	56.63
TTCAACTATCTCCAGCCATCACT	584	56.63
TTCAACTATCTCCAGCCATCACT	673	56.63
ACACTCTTCTTCCACAATCTCCA	2236	56.55
GTAGAAGAAGTCGCACGGCAT	2093	58.09
GTATATCGTCGTCAACTAGAACCAATC	993	57.48
GTATATCGTCGTCAACTAGAACCAATC	891	57.48
GTATATCGTCGTCAACTAGAACCAATC	858	57.48
TGTCTGACACAGTGGTAATGGAG	114	56.33
TTGTGTGTTATTCGCCGATTC	803	57.24
CGCTTCGCCGATATGATGTAC	108	59.18
GTAGGCAAGATCGGATCGGAT	30	59
ATGGCTCAGATGGAACGTCA	121	57.68

GATACGGTGGATATGGTTATGGTG	174	58.09
GAGTTCCGCTTCCAATGTGC	291	59.27
GGTTGTCGGTCAGAATGTTGT	1016	56.06
ATGGCTCAGATGGAACGTCA	83	57.68
TATGAAGGACAGTGCCAACCA	179	57.68
TCAGGCAATGATTATGACAGGA	978	56.78
CGGTTGGAGCTAATGCTACAC	646	56.2
TGAGATCAGAAGGCAGAGAAGC	395	57.5
TTCGTGAGCATGAATACTGAAGA	611	56.32
CCACCGAGGTCCTTCAATCTTG	64	61.64
CCACCGAGGTCCTTCAATCTTG	45	61.64
CCACCGAGGTCCTTCAATCTTG	51	61.64
CCACCGAGGTCCTTCAATCTTG	45	61.64
CGTCTTGCTGCTGATATTGGA	506	57.6
CGTCTTGCTGCTGATATTGGA	499	57.6
CCACCGAGGTCCTTCAATCTTG	43	61.64
CGTCTCCAAGACCGCTGTTG	102	60.39
ATCTCGCCTGTACCGCTGCT	113	60.88
CCACCGAGGTCCTTCAATCTTG	43	61.64
ACCACCGAGGTCCTTCAATC	40	57.48
CGTCTCCAAGACCGCTGTTG	128	60.39
CCACCGAGGTCCTTCAATCTTG	46	61.64
CGTCTCCAAGACCGCTGTTG	102	60.39
TCTCGCCTCATACCGCTGCT	114	61.89
CCACCGAGGTCCTTCAATCTTG	36	61.64
CGATCTCGCCTCAGGAAGGT	80	60.3
CCACCGAGGTCCTTCAATCTTG	51	61.64
CCACCGAGGTCCTTCAATCTTG	35	61.64
CCACCGAGGTCCTTCAATCTTG	44	61.64
AGTTCTTGATCGATCTCGCCTCA	75	61.15
CGTCTCCAAGACCGCTGTTG	102	60.39
CGATCTCGCCTCAGTTAGGTAC	94	56.78
CCACCGAGGTCCTTCAATCTTG	43	61.64
CCACCGAGGTCCTTCAATCTTG	29	61.64
CGTCTCCAAGACCGCTGTTG	137	60.39
CCACCGAGGTCCTTCAATCTTG	43	61.64
CGTCTCCAAGACCGCTGTTG	96	60.39
CGTCTCCAAGACCGCTGTTG	92	60.39
GCTTCTCCTCCAGGTGTGTGA	171	58.88
CGTCTCCAAGACCGCTGTTG	95	60.39
CCACCGAGGTCCTTCAATCTTG	46	61.64
CGTCTCCAAGACCGCTGTTG	64	60.39
CGTCTCCAAGACCGCTGTTG	102	60.39
GATCTCGCCTCAGGAGGTTGT	110	59.28

TCGATCTCGCCTCAGAGGTA	60	57.17
TCTTGATCGATCTCGCCTCA	75	58.06
CCACCGAGGTCCTTCAATCTTG	43	61.64
CCACCGAGGTCCTTCAATCTTG	43	61.64
CCACCGAGGTCCTTCAATCTTG	40	61.64
AGGTCTGCTGCCGTCTCCAA	123	61.83
GAGGTACGCTGCTGCCGTCT	94	61.44
CCACCGAGGTCCTTCAATCTTG	43	61.64
CCACCGAGGTCCTTCAATCTTG	43	61.64
TCGATCTCGCCTCATTAGGTAC	115	57.1
CGTCTCCAAGACCGCTGTTG	101	60.39
CCACCGAGGTCCTTCAATCTTG	37	61.64
CGTCTCCAAGACCGCTGTTG	138	60.39
CCACCGAGGTCCTTCAATCTTG	43	61.64
TCAGGAGGTTGCTGCCGTCT	118	61.83
CTCAGGAGGTAACCGCTGCTG	118	60.88
CGTCTCCAAGACCGCTGTTG	102	60.39
CCACCGAGGTCCTTCAATCTTG	43	61.64
CAATACCGTGAGCGATGTGC	242	58.75
AAGAGTAAGGTTGGACGATGATG	216	56.08
TCTGAAGAACAAGTGTATGTCGCT	752	56.9
TCTGAAGAACAAGTGTATGTCGCT	655	56.9
TCTGAAGAACAAGTGTATGTCGCT	661	56.9
TGTGTCAAGTGTGGCGGAAT	1433	58.58
CGAGCCTGCGTAGACTGGAA	321	60.11
TACTGATGTGATGCCAACTGACG	1379	59.63
TACTGATGTGATGCCAACTGACG	1379	59.63
ACAAGTCCAATAGAACAGAGCAAGT	254	56.52
GCACGTAATGTTAGTGTCCGCAT	163	61.04
AACGAACTGGCGAACCACAG	1250	59.73
GTGCTTGCTGTCGTCATTGC	224	59.04
CGACTCCAACTCATTCAATTATAGG	2070	57.08
GTGCTTGCTGTCGTCATTGC	224	59.04
GTGCTTGCTGTCGTCATTGC	224	59.04
GTGCTTGCTGTCGTCATTGC	224	59.04
GTGCTTGCTGTCGTCATTGC	224	59.04
GGAACATCTACCACATCCAGCT	234	56.77
CACGCGCATCGAGGAGTACT	35	60
GAGAAGGAAGAGGATGAGAAGCAC	57	58.66
CTGGCTGCTGTCATCGCAAT	104	60.91
GTTGATTGGATGACTCGGACA	1003	57.02
TCTTGTGAGCCATACGTTGC	149	59.71
CAACACTTGAGATCAAGGCAA	217	58.82
TCACGACCGACAGCAGAATC	331	58.4

TCACGACCGACAGCAGAATC	331	58.4
TCACGACCGACAGCAGAATC	397	58.4
GTTATTGCGAACGAGACGGA	140	57.44
GTGATAAGGCTCTCCGACTGC	233	57.63
GTGATAAGGCTCTCCGACTGC	233	57.63
TCACGACCGACAGCAGAATC	314	58.4
CTGGCAGTGGTGTCTGTGTGT	359	58.23
GGAAGTACTACGAAGCCAAGGATA	611	56.86
GCGTGCCTTGTGATTGATGA	833	59.24
CATACACATGCAACTGGAGAGTAGG	93	58.76
GCAACAATAAGAATGGCTGGA	303	56.49
GCAACAATAAGAATGGCTGGA	382	56.49
GCAACAATAAGAATGGCTGGA	388	56.49
AATGAGCAAGGATTCCGATTG	1804	57.74
AATGAGCAAGGATTCCGATTG	1596	57.74
AATGAGCAAGGATTCCGATTG	1526	57.74
AATGAGCAAGGATTCCGATTG	789	57.74
GCCACATCCGCATTCAACAG	128	61.01
TTCTGTCTACCTTGTTGCTTCGTG	74	59.46
GCCGACGACGAAGTTAGGAA	488	58.91
TAACCGTATCAGCCGAGAAGA	110	56.26
CCGTAGCAATTCATGGTACTGG	206	58.13
CACGGTGATTGGTATTATATTCCTT	232	56.4
GCAGGCAACTATTCTCACAGC	692	56.34
AACGGCTTGATGGCTTGAAC	233	58.78
CTCTGGATACTGCCAATCAGGT	89	56.92
GGTGCATTGCCAGACTAATTACC	367	58.56
CTCAGCGACTGCGATCTCAA	584	58.86
AACCGATTCAATCTTGCTGCT	24	57.57
CTTGTGGAGAGGAGGACTCG	519	56.05
AATCCTGTTCGTAGCATCGC	303	56.54
AATCACTTGGACAGAATGCAGGAG	640	60.46
GCAGAATACCACGCAGATACCA	532	58.72
CATTGTATAGGAGCTAAGCATCTGAG	314	56.77
CATTGTATAGGAGCTAAGCATCTGAG	380	56.77
CGCAGAGAGCAGGATCAGAA	104	57.86
CGGCGACGACATCAACTTCA	721	61.72
AGTTCTTCATTCTCGCATTGGA	1740	57.55
AGTTCTTCATTCTCGCATTGGA	1755	57.55
CCTTCTCTGGATGGATTCTTCG	1281	58.78
TTCTCGGATTGGACTGTTCTG	580	56.45
CGAATGCTACGAGACAATACGAC	852	57.6
GGAGAAGACGATGATGTGGATT	1482	56.67
AGTATCGTGGAGCGTGTTTCG	244	57.44

AGTATCGTGGAGCGTGTTCTG	216	57.44
TTATTCTGTCAGTAGCCACTACGAA	187	56.18
GCTGGCGAATAGATAGGTGAGT	71	56.31
TTGCAATTCTCCGAATCTCTCTT	45	58.15
GCTGATAGGAAGGAATGAGGAAGG	280	60.35
CGCTGTGTGCTATAGTGCTGA	185	56.43
CGTCAACATCGTCGTATTCTG	45	56.28
AATGAAGAGAAGGAGGCGGTGA	42	61.02
TGAGGATTCAGAAGACTCGTGA	29	56.18
CCACGAATAATAGCCGCCAA	1663	59.52
CCACGAATAATAGCCGCCAA	1746	59.52
CCACGAATAATAGCCGCCAA	1746	59.52
CCACGAATAATAGCCGCCAA	1540	59.52
TCACCGATTGTTGCGAGATG	20	59.23
GCCTATGATTCATCGAATCGGTT	182	60.11
TCGTTCAATTCATCTATTCTATTCTATCC	71	56.49
ATAGCAGCATCATTGTTGTGTGTT	53	57.4
AGGTGCCAGGTGGTGACAAG	24	59.58
TTCTCTTCTAACTGGCTTCTGATTC	95	56.38
GTGTTATAATTGCGGCTTGCC	162	58.26
CACATCTGGCTCATTCTCTTGA	64	56.62
AAGACGTACCACTCTGTGATCTCTC	196	56.81
GTTGTTGTGGTCGGCACTCTT	65	58.7
ATATGGTAGAGATGGTCGGTTAGGA	37	58.07
TTCCACCACCACGAGTGTCT	353	57.55
GTTAAGAATTGTGGAATTGGCTACAGA	400	59.78
GTTAAGAATTGTGGAATTGGCTACAGA	443	59.78
GTTAAGAATTGTGGAATTGGCTACAGA	474	59.78
AGGATGTGTCTGTAACCTCTTGGATT	244	56.95
CAGTCTTCTGCTGTTCTGTGGA	94	57.68
GGCTGCAATGTGTCTGTGGTT	205	60.53
GGCTGCAATGTGTCTGTGGTT	363	60.53
TTGTCTGAACATGATGCCAATGC	52	61.71
AAGGCTAAGACCGCATTGAGG	329	59.34
AAGGCTAAGACCGCATTGAGG	553	59.34
ACATTCACAATGGCATGGTCA	213	58.28
ATTGCGTCTTCATCTCTTGGA	2628	56.09
TATTCCATCGAGATTCATTCCAG	316	56.84
TTGGACGAGATTGTGGAGACA	5123	57.72
GGTGTAACGTATCCACTGCTCAA	1122	57.01
GGATGGATACAATGGCTTGC	138	56.56
GGAGTGACCTTCAACTGTCAAGTG	96	58.81
GAATATAATCGTGTGTGGCTGATGG	58	60.41
ATGATTGTCAACATGACTGCGA	797	57.69

GGTGCCAATGGACACGGTAA	78	60.19
TGCATACAGATGCCGGTGCT	67	61.17
CCACACCGAAGGATAGAATGAG	493	57.3
ATTCATCAAGCAGCAACGGA	84	57.91
GACCGCCGATTACTTCACAA	1736	57.29
GACCGCCGATTACTTCACAA	1779	57.29
GACCGCCGATTACTTCACAA	1649	57.29
TTAGTGGAATGACCGCCGAT	1371	58.99
CCTCCATCTTACGACACACCAA	168	58.56
GGAAGCCTGGAGACGCAGAG	77	61
TACAGTCATTAGGATCATAATACGAAGG	61	57.16
GTCGAAGAGGCTCGCCACTC	123	61.01
AGGCTCACATTGCTGCTTCTTG	38	60.51
AGGCTCACATTGCTGCTTCTTG	38	60.51
AGGCTCACATTGCTGCTTCTTG	38	60.51
GGCTCACATTGCTGCTTCTTG	25	59.6
AGGCTCACATTGCTGCTTCT	23	56.36
GGCTCACATTGCTGCTTCTTG	25	59.6
AGTTGGAATATGAGTTCTCTCGCA	773	59.45
AAGAGTGAACGGAGAGCAAGAAG	332	57.97
AAGAGTGAACGGAGAGCAAGAAG	332	57.97
TGGAACACGATTTCGATGTGG	102	58.93
AAGAGACGTAGGTGGAGAGAGAGA	66	56.63
CTGCCACTCTGAAGGTCACTG	59	57.11
GCGTGGCAGAGATTGGACTA	1163	57.51
TCGTGGTGCAGTGTGAGGA	271	59.85
TCGGTGTCTTGTGGATAGTTGTG	2679	61.06
CCTACTCGTCACCGCATTCTG	295	60.22
CCTACTCGTCACCGCATTCTG	295	60.22
CCTACTCGTCACCGCATTCTG	295	60.22
CCTACTCGTCACCGCATTCTG	295	60.22
CCTACTCGTCACCGCATTCTG	454	60.22
CCTACTCGTCACCGCATTCTG	295	60.22
CCTACTCGTCACCGCATTCTG	454	60.22
CCTACTCGTCACCGCATTCTG	428	60.22
CCTACTCGTCACCGCATTCTG	428	60.22
CGATGAGGACGTTGTTTCAGGTC	1116	60.49
CGATGAGGACGTTGTTTCAGGTC	882	60.49
AACAAGAGACGATTGGTACAATTAATCC	440	59.89
AATACGTGATCGCCAGCATTG	255	59.57
ATCTTCGTGCCGTCTCAATG	143	57.35
CCTGATGAAGTTGTCTCACGAG	39	56.12
GGCAAGAGAACGAGAGGACGA	80	60.46
ACTGTTGCGATGTTCTCCA	66	57.74

CGCTGTTGAGGAGTGTGAGTAGGA	95	61.62
CACCGAGGAGAAGAATGAGACT	184	56.23
GATCTCGTTCACCACTGCCA	488	58.24
TCTCGTGATGCTGAAGACGCA	164	61.62
GATCTCGTTCACCACTGCCA	570	58.24
GATCTCGTTCACCACTGCCA	568	58.24
GATACTTGCCTCACTGGAGATTC	512	56.62
GATACTTGCCTCACTGGAGATTC	635	56.62
GATACTTGCCTCACTGGAGATTC	669	56.62
GATACTTGCCTCACTGGAGATTC	635	56.62
GATACTTGCCTCACTGGAGATTC	669	56.62
GATACTTGCCTCACTGGAGATTC	597	56.62
GATACTTGCCTCACTGGAGATTC	635	56.62
GATACTTGCCTCACTGGAGATTC	669	56.62
GTCCATTCACTCTCTCGTACCAAG	817	57.84
GTCCATTCACTCTCTCGTACCAAG	52	57.84
GCAAGCCAGACATCAAGAAGA	1496	56.75
AAGTGACTGCTCCATCTCTTCC	620	56.23
GGAGAATGCTGGCGTAATGG	809	59.13
GGAGAATGCTGGCGTAATGG	1160	59.13
GGAGAATGCTGGCGTAATGG	1160	59.13
TCTACATGCAGAGGACGATGCC	332	61.1
TCTACATGCAGAGGACGATGCC	241	61.1
GGAGAATGCTGGCGTAATGG	1014	59.13
GGAGAATGCTGGCGTAATGG	1160	59.13
GGAGAATGCTGGCGTAATGG	809	59.13
GGAGAATGCTGGCGTAATGG	682	59.13
GGAGAATGCTGGCGTAATGG	1014	59.13
TCTTGATGTGGCGATGAACG	601	59.23
CAACACGCTGGAAGTCTTC	677	58.1
GATGAGTGGAAGCATGATGAACC	544	59.42
GGCTCTTCCGATTAGTTCTCATC	796	57.2
CATTGCCACCGAGGTTGACT	1880	59.55
CAGCAGTTAAGCATAACGACAGATGG	79	61.97
TATGATGGAAGTGTGGACGATG	324	57.02
GATGGTGTGATCATTGGTGA	98	57.79
TGTCTCATCTCATCCTAACTTCACTGC	749	60.92
AACCGATGCTGCCTATTGCC	895	60.91
AATCGGAGCACAATGGAGAA	469	56.8
AATCGGAGCACAATGGAGAA	469	56.8
GAGCACAGTGAAGAGAAGAAGCAAC	676	59.71
TTCCATTCTTCCATCCGTTT	170	56.1
TTCCATTCTTCCATCCGTTT	170	56.1
ATTGTATGGCGGCGAGAGTAAC	1223	59.14

ATTGTATGGCGGCGAGAGTAAC	1223	59.14
TTAGGCGGAACGAGAAGACTG	330	58.2
GATACGGCTGCTGGTCAAGA	278	57.51
CGGATGTGGAGGTAGAGCAA	222	57.35
CGGATGTGGAGGTAGAGCAA	669	57.35
CGGATGTGGAGGTAGAGCAA	132	57.35
TTCGTATCCTGCCACTGTCA	199	56.28
TTATTACGATTGGCACGATCAAGTTG	679	61.97
CCATCATCAGTTGCATCCAG	789	56.04
GAAGGATCTGACGAAGTGGTACG	180	58.77
GAAGGATCTGACGAAGTGGTACG	470	58.77
GGCTAATTGTTGTTGCATGGA	423	57.24
AAGTGATGTGGAGCAGCAGAG	119	56.74
TTCTGGCTTATGTCGCACCT	250	57.05
GGAGACACGAAGAGCAATCAAG	1157	57.67
CAGTCGGCAATTGAATATGAAG	76	56.1
GGAGCACCACCAGCTGCTTC	288	61.85
CAACAACAATTGAATATGGTACTTATGG	754	57.99
CTGGTGTCCGGCTATCAATC	877	56.67
AACTTCCAGCTCTTGCTCCGT	176	59.12
AACTTCCAGCTCTTGCTCCGT	79	59.12
TGTTGGAGGAGCACCAGTCG	258	60.8
AATATGCGAACAACGAGACTGAA	494	57.58
AATGAGAGTGATGATACGACAAGTG	161	56.17
AATGAGAGTGATGATACGACAAGTG	179	56.17
TTACTGACTTGGCTGGTACTCTCTG	73	57.86
GCATGTTATTCGGTGTAGGAAGG	232	58.56
ATGAATAAGACGCCTGTCGGTA	38	57.4
CTGCTTGTGGACTGGTTGGA	805	58.29
GTGAATGAACTGCTGCTACTCG	182	56.43
GTCAAGACCGATACATTCTTGCA	96	57.87
GGAGCATTGGCACATCAGAA	1322	58.24
AGTTGACAGACAGGAAGGAGACG	1887	58.52
CGAGATTGAGGATGAACAGAAGA	1534	57.17
CGAGATTGAGGATGAACAGAAGA	3487	57.17
ATGATGGCTTCACAAGAAGAAGA	146	56.74
ATGATGGCTTCACAAGAAGAAGA	375	56.74
CTGTCCAACCGCCAAGAGAA	274	59.81
CGCCATCAACTGAACCACAT	57	58.02
CGAATGAAGGAATAAGGATGTATGGAC	83	60.95
ATGTCACATTAGTGAATTAACGAGTGT	77	56.25
AACGCCATAGAATCAGAACAGC	2698	57.15
CGAAGAGAGCCATGGACGAA	1259	59.91
GTTGCGAGCGATGAAGAAGG	585	59.54

GTCGTTCACTGCCTGTCGCA	48	61.97
ATGATGGTCGCCTCTTCCGT	72	60.43
TTATTGCTCATGATCCAGTTCG	97	56.51
AGAGAATAGCGTTACAAGGAGGACT	98	57.08
TTCGGAACAACGTCTGCTCA	56	59
CCTGATGATGGCGAGCGATA	800	60.67
CACACTGCTTCATACCTCCGTCT	2328	59.29
CACACTGCTTCATACCTCCGTCT	2340	59.29
CCACAATATTCAAGGTGTATATGCAATC	230	58.7
CTGGAAGGATCTCGGCATTG	272	59.21
TGCTCGTCCTGAACCTCAACAC	125	61.18
AGTCTATTGCCTCTGCCATCA	977	56.13
AGTCTATTGCCTCTGCCATCA	1019	56.13
CCGATACGACCTGAGGCGTT	805	60.96
ATGTTTCGCTCGTCCAGTGTT	50	56.85
CACAAGTTAAGGAACAAGGAGCCA	545	60.46
CACAAGTTAAGGAACAAGGAGCCA	2198	60.46
CACAAGTTAAGGAACAAGGAGCCA	544	60.46
CACAAGTTAAGGAACAAGGAGCCA	2567	60.46
CACAAGTTAAGGAACAAGGAGCCA	2154	60.46
CACAAGTTAAGGAACAAGGAGCCA	2865	60.46
GACCTCCACAATGCTGTCATAACTC	177	59.89
GGCGCATGCATAGGTAATTGTAC	83	59.4
AATGCACTCGAACTTGCAAGT	96	56.26
GTAGATGCGAGGCACTTGGA	1164	57.51
CGAGTGGACGAATAAGACGAG	31	56.2
CCTGTCTCATGTGCGCAATC	82	57.68
TTGTTCAACCAATACCTTATCGGA	891	58.46
GGACAGAAGAAGCCATTGCG	1530	59.4
GGACAGAAGAAGCCATTGCG	1312	59.4
GGACAGAAGAAGCCATTGCG	674	59.4
TCTATCGGTTCAATCGGTCTTAC	28	56.14
TGAACAAGCATCCTACAAGACCT	91	56.69
TCCGAGAGATGTGACTCCAGA	293	56.95
AGAGAGGAATCAGTGGAATAGATCG	266	58.02
AGAGAGGAATCAGTGGAATAGATCG	387	58.02
AGCAACTCTCAACACAACCTTCAATC	961	57.71
AGCAACTCTCAACACAACCTTCAATC	991	57.71
AGCAACTCTCAACACAACCTTCAATC	961	57.71
AGCAACTCTCAACACAACCTTCAATC	961	57.71
AGCAACTCTCAACACAACCTTCAATC	991	57.71
AGCAACTCTCAACACAACCTTCAATC	970	57.71
AGCAACTCTCAACACAACCTTCAATC	1000	57.71
GCGAAGGAGCAGCCAATGAG	560	61.87

GTGGAATGCAACGGTTACGA	282	58.08
ATGAATACAATCTGAGCGACGA	159	56.11
ACTGTAACCGAAGAACCATCACC	92	58.06
AGCAACTGGAGGAGCAACTG	922	56.72
TCACTCTCCTCTCTCTATCTTCCACA	110	58.08
CACCTGCTCCGTCGAATGAG	120	60.36
CTTATGGTGTCTGTGTTGAGTGTGC	431	59.61
ATCTACCACGCTCAACTTATCACA	1046	56.69
ATCTACCACGCTCAACTTATCACA	1046	56.69
TGTCTCTGTGGTTACGGCTCA	86	57.96
AGAAGCCGCCTCATCAAGAAC	48	59.44
ACCGCATTGGTCTACACGTATCC	188	60.92
ATGTTCAATCATTATTAGATGCTTCTTG	128	57.25
AACTCTGTGAACCAAGATCCTTACC	60	57.85
TGATGGAGAACGAGAAGATAACAC	950	56.21
CAAGTACACAAGAAGATCGGATGA	485	57.07
CAAGAATGTGCTCAGAAGTTATGG	1010	56.8
GGAGTTAGTACAGGAGCTGAAGGA	253	56.97
ACAATACTCGTGTTGCTCGTCA	240	57.04
ACAGACTTGCACTGCACCAAC	621	61.14
CGAATGTGATGAGATAGAGGCTGA	813	59.35
CGACCAATCATCCAACGCTA	126	58.18
TTATTCCGTAATTATAGGCTAGTATGCG	36	58.41
GGACAACGTCAGAAGTGAGAACA	39	57.96
GGCACCTCACCAATCACTACC	47	57.97
AAGTCTAATAGAGTCGTTCAAGGAAGC	346	56.83
GATTCTGCTTGTTTACGATGTTT	573	57.48
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AAGTGTGCCAGCTTATGTTGC	1488	56.68
TCCTGAGAAGCACCGTATTGAC	363	57.93
TGATTATTCCATTGCGCAGGT	127	58
CAGTTGGACGAAGTGAGAGGA	307	56.55
CAGTTGGACGAAGTGAGAGGA	118	56.55
GAGGTCGGTGCATATCGGACT	249	59.93
GATGTAGGATCAGAGTCACAACAACA	170	58.25
AACTGAGGATTCTTGAGCACA	117	57.53
TTCAGTCGGTTCGCTACATTG	370	57.51
CGGTTCTTCGAGATGGAGCTT	79	59.43
CGAAGTGCTCCAAGCTCTCC	75	58.76
CAGTTGTTGTCGTTTCATGGAGA	262	61.01
GAGGAGCAGCAAGGCATCAGA	1107	61.51
GAGGAGCAGCAAGGCATCAGA	1189	61.51
GAGGAGCAGCAAGGCATCAGA	1385	61.51
GAGGAGCAGCAAGGCATCAGA	1116	61.51

GAGGAGCAGCAAGGCATCAGA	1198	61.51
GAGGAGCAGCAAGGCATCAGA	1394	61.51
GAGGAGCAGCAAGGCATCAGA	807	61.51
GAGGAGCAGCAAGGCATCAGA	816	61.51
TTCGTTGCTACTGGACCGT	552	59.33
TTCGTTGCTACTGGACCGT	462	59.33
TTCGTTGCTACTGGACCGT	457	59.33
TTGAACGACCATTACTTGGTTCCT	124	59.75
CATTAGATACTCGGATATGGCATCACT	755	59.65
CATTAGATACTCGGATATGGCATCACT	662	59.65
CATTAGATACTCGGATATGGCATCACT	555	59.65
CATTAGATACTCGGATATGGCATCACT	622	59.65
CTTCCACATACTCACTACCGTCTG	28	56.65
TAAGGAATGGCTCAGAGAAGTGG	377	58.52
TTGTGGAGTGATGCCGAAGA	638	58.8
AAGGAACTACCGTCGTCTATCG	670	56.24
TCAAGCAGCATAAGGAACAAGAGC	3516	60.79
TCAAGCAGCATAAGGAACAAGAGC	6378	60.79
AAGGAGGAGTGTGAGGATGCT	243	56.52
TCAAGCAGCATAAGGAACAAGAGC	6351	60.79
TCAAGCAGCATAAGGAACAAGAGC	4800	60.79
TCAAGCAGCATAAGGAACAAGAGC	4114	60.79
TCAAGCAGCATAAGGAACAAGAGC	4087	60.79
TCAAGCAGCATAAGGAACAAGAGC	4549	60.79
AGTGATTACGCCGATTCTTG	1736	56.39
AATCATGAAGGAGGATCACACG	125	57.59
AATCATGAAGGAGGATCACACG	372	57.59
AGCTTCCACAGACGGCTTCA	683	59.57
CGTTCGCTGTACGAGAAGAAG	116	56.57
GACGCCGATGCTCTTCTCTT	459	58.23
GACGCCGATGCTCTTCTCTT	241	58.23
GACGCCGATGCTCTTCTCTT	323	58.23
CAAGTAAGTGCCTCAGTTAGAAGC	72	56.39
AATATGGAGCACTACGTCACGA	182	56.06
TTATTCGTTGGATATTGCTGAAGC	232	58.39
TTATTCGTTGGATATTGCTGAAGC	325	58.39
CGTCCGCAGAACAATCCGTA	1062	60.59
ATAAGCCAGTTCAACAGACAACCTAC	501	57.99
CGCAGCAGAAGTGTCCGATG	1101	61.49
GATGTATCAGATGTCGTGATTAACG	352	56.47
TTGGCTCTGGAGCACACCTG	52	60.95
CCTGTTGGATTGTGAGAAGAGAA	67	57.08
ACTACTGAGGATCGTGTCAAGTGTG	638	58.39
GCCACCATCACCGATGAGTT	487	59.37

AATCGGTCTGCCAAGTCGGA	1146	61.48
GCTGCGACTGCTTCTAATCC	863	56.41
TCTATGGATGTGTTGAGCCTTACC	562	58.21
TTGACGATGAGAACCGAAGAAG	1372	58.05
AATTCAGTGCAGATCACGAT	150	56.67
ACCTCGTCTACTCCTCTTCCAACA	577	59.3
AATCCGCTTCGACACTGCAA	79	60.35
AATTCATCTGTGCTCTTCTTCTCC	52	56.89
ATCATCACTCCAACACTGCTCTCC	531	60.49
GCCGCCTCCACACTAATCTATG	121	59.59
GCCGCCTCCACACTAATCTATG	317	59.59
TGAGAATGCTTCGTAAGATTGACA	702	57.7
TTCGTGCGCATCACAACCATC	202	59.09
TTCGTGCGCATCACAACCATC	202	59.09
CCACCAGATTCAAGGCATAATGG	433	61.31
CCACCAGATTCAAGGCATAATGG	433	61.31
AAGTCTCTGGTCGCTGTGTCG	42	59.1
AAGTCTCTGGTCGCTGTGTCG	162	59.1
ATGAGTTGTGCTGCCGAATG	188	58.32
TATAACAGTGCTAGAGAGCCGAGA	182	56.41
ATCAAGGACCACATCCGCAA	411	59.9
CATACAGCACTCGTCATCGC	391	56.47
GGTCGTCCATACAGCACTCG	384	57.76
GAAGTCCAAGTCTCGCAGCA	1278	57.76
GTCAATTCGACATCGTTGGATT	892	57.52
GCGATGAGTGAGCTGGTTCC	1125	59.39
GCGATGAGTGAGCTGGTTCC	1067	59.39
AATTCCAAGCATCCTTCATTGAAGT	857	60.16
CTATGCCGATGATGACCTTCTC	108	57.38
CTCAACCTCTGCCAACACAAC	157	56.9
GGTGGCTGTTCCAGGCTTAC	213	58.25
CTATGCCGATGATGACCTTCTC	110	57.38
CTATGCCGATGATGACCTTCTC	78	57.38
CGGATTCTCGTGTGGATTACAAG	863	59.48
CTCCGAGAGTCCGTGTCCTC	251	58.41
GTGTCCGACACACTTGCG	95	59.77
GGTCCAATCGTTCCATTATG	138	58.69
GTACAAGGAGTTGAATGAAGATGGA	965	57.42
ATCAGGCTGCGGTTATGTCA	376	57.78
ATCAGGCTGCGGTTATGTCA	272	57.78
ACGCTGATGAGTACTATATCTGAAGTTG	1996	57.46
TAAGGATGTGGCAGATAAGAAGTTG	1665	57.64
GTGGAAGACGCTGAGCACA	1331	58.6
CACAGTCCGTGTCGTACCA	280	56.59

GAAGCCAAGAGAGTCAGAGCA	839	56.06
TATCTCTCCGAACATCATCATC	40	56.08
CTTCACTCTTCCAATGATCAGCTTC	79	59.4
TCAGATTACACTTGGCACACAGG	3320	58.76
TCAGATTACACTTGGCACACAGG	8116	58.76
TCAGATTACACTTGGCACACAGG	2767	58.76
TCAGATTACACTTGGCACACAGG	2767	58.76
TCAGATTACACTTGGCACACAGG	2444	58.76
TCAGATTACACTTGGCACACAGG	2444	58.76
TCAGATTACACTTGGCACACAGG	2050	58.76
TCAGATTACACTTGGCACACAGG	2050	58.76
TAGGATGTTGCTCTGTTGCTGTT	117	57.7
TAGGATGTTGCTCTGTTGCTGTT	36	57.7
AACGCCTTCTCCGACCTCAT	1371	59.66
AACGCCTTCTCCGACCTCAT	1368	59.66
AACGCCTTCTCCGACCTCAT	1354	59.66
AACGCCTTCTCCGACCTCAT	1429	59.66
AACGCCTTCTCCGACCTCAT	1208	59.66
AACGCCTTCTCCGACCTCAT	1133	59.66
AACGCCTTCTCCGACCTCAT	1294	59.66
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AACGCCTTCTCCGACCTCAT	1433	59.66
AACGCCTTCTCCGACCTCAT	926	59.66
AACGCCTTCTCCGACCTCAT	1368	59.66
AACGCCTTCTCCGACCTCAT	1290	59.66
CCAATTATCAATACGAGACCACAG	1728	56.46
CCAATTATCAATACGAGACCACAG	1728	56.46
GATCCATACGCCGAGAATC	1048	59.09
TTACCAATGAAGAAGACTACAACAATGC	178	59.82
GCTTCGTCAGATTCTTCGTCCA	31	60.33
GGAAGATGCTGATCAATCGTG	83	56.81
ATTATCGGCTGTGGAGGAGTG	1279	57.75
TTCCAGCCTGATTGCACCTA	780	57.91
GAAGGCATTGAACACGACAGA	625	57.4
GAAGGCATTGAACACGACAGA	617	57.4
ATTCCAACCAATACTCCACATTCAAG	187	60.29
TGTGAAGAATGAAGGAATTACTGC	963	56.32
ATGTCAATCAACTTAGCACCTTCA	189	56.66
CGGACACTTGGATGAGCAGA	928	58.39
CAAGACAACAACAGCAGCCA	692	57.06
CAAGACAACAACAGCAGCCA	704	57.06
TTCTTGGCTGTATTGACTGAGTCC	74	58.44
TTATTCCAATTCAAGGAGAACATCT	57	56.27
CATCCTTCTTGTTGCTGGTCTT	50	57.09

CAAGGAGTTGGCAAGTGAAGG	631	58.43
CACCACCAAGTTATTCATCGAGATC	260	59.73
CGTAGCTCCTCAGTTCAC TCG	454	56.45
CCTGAAGTTCTTGGATGCTCA	108	56.6
CGTCATCGGATGGAATATGC	283	57.45
GAAGTTAGAGAGCGTGTTACAGA	498	56.64
ATCAATGTCAGGTGTT CATAATCAAC	226	57.14
TTGTTGTCTGCACTATGGAGAATG	422	57.93
CGTCATTCCGAGAAGCAGGTT	1250	60.2
CGTCATTCCGAGAAGCAGGTT	1297	60.2
CGTCATTCCGAGAAGCAGGTT	1257	60.2
CGTCATTCCGAGAAGCAGGTT	1262	60.2
CGTCATTCCGAGAAGCAGGTT	945	60.2
CGGCTTCTCATCACTTCCAT	636	56.39
CGGCTTCTCATCACTTCCAT	619	56.39
CGGCTTCTCATCACTTCCAT	615	56.39
GGACACCTACCGTAGGCAGCT	862	59.25
CTGACTGCCGATCCACCAAC	107	60.08
CGGAAGACAACGAGGTCTATCAG	271	58.9
GGCAGTCTATGATAGCGACGA	190	56.71
GCTGTGATTGTTGTGTTCTGTG	83	59.15
TTGTGCCTGCTCCGTCTGTG	79	61.95
AGTGTTCTTGTCGTCTACATTCC	333	57.4
CGATATGTCCATTGTGCGGTA	343	57.99
TCCTGGCAAGTGAGAACGGT	26	59.28
CAGAACGGAAGAGAGGACCA	115	56.47
TCCTGGCAAGTGAGAACGGT	26	59.28
TGACAGTTATTGGATGGCGAGA	783	59.17
TACATCTTCAGCCAAC TCCACA	174	58.37
ACAAGAAGGACTACGCAGCTATCG	142	59.92
ATTCATGAGACTATGATGGAGTATCACT	538	56.65
ATTCATACCGTCATGCCGTGT	71	58.79
CATCATCCGTAGATCAGCAGCA	317	59.82
CCATTCGTGAGCTGAAGGAG	429	57.07
ATGGAGAGCGATGCCTGATTG	136	61.06
TCCGACTGCGAGAGTTAGCC	910	59.17
CTTCAACACAGAGGACGGATACG	601	59.64
TGGCAGGACGATGACACAGC	63	61.81
CATTCTTGTCTTCTCGCTGGA	296	56.76
TTGACCGAATGGAACAGCCT	267	59.12
TTAGCCGAATTACAAGTCAATCC	61	56.25
AACTATTGTGCAGATTCTCATCAAG	102	57.63
CCAATAATTGTTCCGCACAGAA	427	59.98
AACTATTGTGCAGATTCTCATCAAG	102	57.63

TGTTCCGGCACAAGATGATTG	154	56.71
GGACGATGATACGCTTCTGC	1789	56.98
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GCTAGGTCTCACAGCGATGG	199	57.1
GATCAAGACCTGGCGTTACAG	569	56.04
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ATGGACGAGGCTTCCTGTAGA	21	57.49
AAGAGAGGACGACGAAGATGC	988	57.22
AACCTCTTATCAGTTAGCCGTCAA	355	57.29
AATGTGTGGATGTGGATGCG	199	58.81
TCAGAGGAGACGAGGAAGAAGC	869	58.81
TCAGAGGAGACGAGGAAGAAGC	1087	58.81
GCTCCTCATCCACCTGTATCAAC	707	58.59
TTACGACGAGAACAAGAACACCA	502	58.41
TTCAACCTACCATAAGCTGCTCCT	87	59.32
TTCGGACCAAGAGGTAGCACT	62	57.54
TAACGAAGGAGTACGAGAACGAGTC	1805	59.03
GGAGTACGCACGGTTGAGGA	676	59.69
GGAGTACGCACGGTTGAGGA	692	59.69
GGAGATCACTGCTTCATCCAAC	494	58.34
AACCTGGAGATCACTGCTTCA	145	56.03
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TTCCACAGCCTTCAATAGCG	635	57.59
GAATCTTATCGCACCGTCCTG	638	58.27
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GAAGAAGATTTCGCTATTCGATGTCC	559	60.36
GTCAGGAATGCGATCATAATGAAG	1158	58.64
GACGACAGAACCGTCACTCTTCA	211	60.29
GACGACAGAACCGTCACTCTTCA	211	60.29
CTATCACACCTTCAGCAGCACA	822	57.65
CTATCACACCTTCAGCAGCACA	583	57.65
CTATCACACCTTCAGCAGCACA	558	57.65
ACGGTAACCAATCATTACAACGA	104	57.14
TGGCTGTAGCTCAGGCTCCT	30	58.78
TGGCTGTAGCTCAGGCTCCT	250	58.78
TCGCAGAGCCACCAACAAGA	283	61.47
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TCGCAGAGCCACCAACAAGA	283	61.47
GAGCGTAATCAGACTGGAGTTGT	507	56.31
GAGCGTAATCAGACTGGAGTTGT	507	56.31
GAGCGTAATCAGACTGGAGTTGT	507	56.31
CATCTCGTCGATGATGGCAA	42	59.19

TTATGGACTCGTGGAGGTTCTTAC	176	57.43
CCAACGAACCAGGAAGGATT	1598	57.57
AACAACCAACAAGGCGGATT	402	58.03
AACAACCAACAAGGCGGATT	352	58.03
AACAACCAACAAGGCGGATT	415	58.03
AACAACCAACAAGGCGGATT	295	58.03
CTTCAGGCTATGGACTCGTCTCAC	145	60.25
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GACCTGATTGGCAATATTGAGCA	354	59.92
GCTTATGTGTTGTGAATATGACCTTC	28	57.01
TTGGCAACACTCAGTGTTCATAC	63	56.44
CCAGTCGGATGTAATGATGATG	128	56.51
CCAATAAGATGTCCGAAGGACTATG	280	58.95
TACAGTGTTGCTTCTGGTGCA	639	56.6
TCTTGAAGCTGACGGACGCT	115	59.72
ATTGAGCATGGACAGAATTATGG	164	56.78
TGACATTGCTCTGGTGATTCTG	780	58.31
TGACATTGCTCTGGTGATTCTG	851	58.31
CAAGTTGAACAGTTCATACCGATT	172	56.13
AAGCTCACGATCACCAATACTCA	574	57.5
GAATGCTGCCGAACTCTTGC	1950	59.55
GAATGCTGCCGAACTCTTGC	1950	59.55
GAAGGACACAACGACCGAGT	148	56.24
GGATTCGTTGTATTATGTCTTGCC	546	57.68
AATTGGATTTCGTTACGAAGACG	260	56.97
AATTGGATTTCGTTACGAAGACG	221	56.97
GCGGTGGATTGTTGTAACCTGT	164	57.66
CCACAGAAGATTTCGAGAACATCA	873	57.92
GTGCTAACATCGGCGGAAGT	110	58.8
AAGTTGTTGAGCAGCCAGAACC	2807	59.39
GGAGGAGGACGGAGAGAGTG	649	57.43
GATTGTGAGAAGTGTGTCTGCAGA	2865	58.99
GCGGTCTCGTCGGATATTCG	861	61.42
GATTGTGAGAAGTGTGTCTGCAGA	2865	58.99
GATTGTGAGAAGTGTGTCTGCAGA	2865	58.99
GATTGTGAGAAGTGTGTCTGCAGA	1618	58.99
GTGATAACCAATAACCATGAGTGACG	26	59.56
CTGTGCATTGTATGGATGAGAGA	896	56.47
AACAAGTTGATGCCATGCTGGA	62	61.35
CGCAACAGTTGAAGGAAGGA	129	57.54
CTGGACAGTGCAAGTGTAGAGAAGG	1677	60.31
GCTCTATCAGGCTCAGAGACACA	85	57.45
AACGGAAGAAGACTGCCAACA	137	58.43
AACGGAAGAAGACTGCCAACA	120	58.43

AACGGAAGAAGACTGCCAACA	138	58.43
TGTCATACTCACAGACTTGTGGCTT	498	58.88
TGTCATACTCACAGACTTGTGGCTT	498	58.88
TTGACGGATATGGTGGCTGA	1694	58.52
GTTGAGTAATGCGGTGATTGCTG	198	60.48
GATTGCTGACGGCTACGAAG	1152	57.2
CCAAGACCATGACGATTATCTAGTC	109	56.99
CCAAGACCATGACGATTATCTAGTC	82	56.99
ACCAGCACACCACCAAGA	217	58.58
ATGGAGATGGATATATGTTATGGTGTG	2001	58.12
TTGTCACTCCAATCGACGCT	909	57.89
TTGTCACTCCAATCGACGCT	912	57.89
TTGTCACTCCAATCGACGCT	909	57.89
CCGATACAGACTTGGTTAGCG	342	56.21
TTCACCGACGAGGTCGCTAT	32	59.29
GTCACTGTTACGCGTCGGTCT	89	58.87
AATGTTGGTAGAACTGGTGTCAAG	79	56.08
CATTCCGAACATTTCGAGATGG	186	58.97
CGCATAAGTCCGTCTGGCAA	266	60.73
CTAAGAGATGAGACGAAGAGCTTGG	56	58.88
TTGAAGTTAGAGGAAGGCGACT	1393	56.1
GATGGTAGATTAGCATTACTCAACCACT	64	58.3
ATCGAGGAGAGCGGATCGGT	82	61.94
GCGATGTGACATCCAATGTATCAG	127	60.21
GAGAGGATGCTGATGGAGATGA	374	57.88
TGGTGGAGCTGCTAGTATTATGTTC	575	57.66
GTTTCGCTTCTCGCCTCTGAG	46	58.9
TTATGCTTGGATTCTTGACACCT	1292	56.59
TGATAATGAGCACAACAAGCG	1237	56.14
TGATAATGAGCACAACAAGCG	1404	56.14
TGATAATGAGCACAACAAGCG	1237	56.14
GCGTTCCTCCTAGCCTGACA	73	59.02
TCACTTCGGTCACAATAGCCA	79	57.83
AACAGATAGGAGCACACATACACAA	47	56.62
TAAGAAGGAACCAGAGCAAGATG	680	56.48
CTCACGGACATCATCATCACC	141	57.37
CACAGGAAGAGGAATGGAATGG	994	59.4
CACAGGAAGAGGAATGGAATGG	994	59.4
CACAGGAAGAGGAATGGAATGG	994	59.4
CACAGGAAGAGGAATGGAATGG	994	59.4
CACAGGAAGAGGAATGGAATGG	281	59.4
CACAGGAAGAGGAATGGAATGG	281	59.4
CACAGGAAGAGGAATGGAATGG	281	59.4
CACAGGAAGAGGAATGGAATGG	281	59.4

GGAACTCCGCAATGTTGTCG	500	60.07
GGAACTCCGCAATGTTGTCG	350	60.07
TGCATTATCCTTATCGATGGCT	196	57.38
ATTACAATGAGCAGTTATATGAAGAGGA	945	56.95
CAATCTTCACACCTACTATGGCAAT	282	57.41
GAAGCATTATTGGCGAAGAGAA	927	57.29
GAAGCATTATTGGCGAAGAGAA	1167	57.29
GGAGAAGGTGGATGTGGAGTC	93	57.06
TCGCCAAGCAGTTCGGAGTT	1075	61.76
ACAGAAGGCATTGAGAGAAGAGAG	1238	57.13
TTCCTCACAGCTGAGCAGGT	235	57.19
TCCGATAACAGATGGCAAGAG	736	56.53
TGAGTAATGACGACCACGAGTTC	243	57.86
AAGAACAGATAGATACCGAGAAGCA	206	56.64
TTGAGCCTGTCGTCAAGAGCTATCTC	581	57.76
GAGCCTGTCGTCAAGAGCTATCTC	610	59.65
GCCGCCGAAGATTGTACAGG	1794	61.44
GCCGCCGAAGATTGTACAGG	815	61.44
GCCGCCGAAGATTGTACAGG	360	61.44
AACCGAGTACAACAATCACACCA	268	58.02
GTCCGAAGAACTTGAAGATGGTC	222	57.87
GCCACCGCCTAATCTTACTTG	514	57.53
GAGAAGATTATTCAGGCTGACGAAGTTC	731	61.8
GGAAGAAGCTGCCGACGATT	198	60.3
TCTCGGAGAGGCTTGATGCT	802	58.71
TCTCGGAGAGGCTTGATGCT	740	58.71
GTGATGGCGTTGACTCTACTGC	356	58.47
CTGAGATATGCTATCATGGACACAA	395	57
GAAGTAATTGATTATCTGCCGACTT	134	56.07
AGAAGAATATGATGACGGATACGAT	515	56.13
AGAAGAATATGATGACGGATACGAT	487	56.13
GAATGGAAGAGGTTGTGGATGG	1003	59.27
TATCGGCGTCATTGATGCTAT	359	56.87
AACAAGAGGAAGTGAACGGAGA	325	56.68
AACAAGAGGAAGTGAACGGAGA	311	56.68
TTCGTATCCTGCCGTTCAAC	1269	57.29
TTCGTATCCTGCCGTTCAAC	1340	57.29
TTCGTATCCTGCCGTTCAAC	1622	57.29
TTGACTACGATAAGAATGGAGCATCTC	130	59.98
TCCAAGTTCAACGTCGCAGA	421	59
GACTGTTGAGAAGGCTGATAAGATTG	2177	58.57
GACTGTTGAGAAGGCTGATAAGATTG	1960	58.57
CCAACAGTCGAAGATGTGCAG	209	57.96
AAGTATTACATTCTCCTTCAACACACG	249	57.94

AAGTGAACGAGAAGAAGATTATCCG	241	58.11
GGCTATCACCTCCGTCACCA	81	59.51
TTGGCGAGAAGGAATTGGAG	636	58.84
ACAGTAGATGAGAAGAGTACGAGCAGTG	424	59.58
CATGCAGTCAGGCAACAGAA	133	56.99
AAGTTGTCGGAGATGAGGATGA	60	57.33
ATGTCTTCCAACCTGCCACACC	88	59.86
TTGTTGTCGATCACAGAAGCAATG	71	60.98
GCCGAGTTGAAGAGACAGCA	1976	57.76
GCCGAGTTGAAGAGACAGCA	1898	57.76
GCCGAGTTGAAGAGACAGCA	1852	57.76
GCCGAGTTGAAGAGACAGCA	1774	57.76
AACGCTAACGCATCTCAACTTC	697	57.34
AACGCTAACGCATCTCAACTTC	440	57.34
GACATTGTTCAAGGTGAACCATG	742	57.95
GACATTGTTCAAGGTGAACCATG	782	57.95
GGTCACCAATTGAATGTGCGA	166	60.32
GTATTGAGCACGACGTTCTTCC	294	57.49
TGCGTATCACGAGCTGCCAT	295	61.3
AACCAGATTCGTCGCCAGTT	185	58.25
ATTCCTTGGCGAAGAAGACA	1333	56.08
AACCAGATTCGTCGCCAGTT	185	58.25
CGATGAGCTTACTGTGGCATTG	480	59.37
ATTATGAGAAGATGGCGGAGGTT	174	58.99
AACTGATGATGATACCGACTTGGAAC	466	60.42
AACTGATGATGATACCGACTTGGAAC	331	60.42
AATCCACTCGCTGACAGAGAACA	708	59.88
TTCTGTTTCATCTTCTCCGACATCA	67	59.7
CTCACTTGACCTCAGTTCACTCG	696	57.72
TTCGGCGATTCTAGTCGGTAT	350	57.48
TTCGGCGATTCTAGTCGGTAT	567	57.48
TTGCCGAGATTGATGGTGTG	227	58.09
TTGATCGACGTGAATCAGATGC	239	59.67
AATGCTGGAGTTGTGGAGAGG	111	57.85
TGCTTCTGATGCTAACCGACT	641	56.35
TGCTTCTGATGCTAACCGACT	431	56.35
TGCTTCTGATGCTAACCGACT	586	56.35
CAGTATCTGAAGTCTCGCACTCA	865	56.02
GCACCAACATTCGATAGCCT	141	56.38
AAGATAATCACTGACGATCCGCAT	689	59.83
GAGTCCAAGCAGAAGCCACCA	717	61.27
GAGTCCAAGCAGAAGCCACCA	720	61.27
CTGCAGTTCACGTGTTGACAGC	259	60.5
GAACAAGTAGGCATGTGGCACT	247	57.87

AACAAGTAGGCATGTGGCACTA	212	56.13
CTGCAGTTCACGTGTTGACAGC	259	60.5
GAACAAGTAGGCATGTGGCACT	247	57.87
AACAAGTAGGCATGTGGCACTA	212	56.13
AACAAGTAGGCATGTGGCACTA	248	56.13
CTCAGCATTGGTTCTCACATTAGTTC	1119	59.24
AATGTTCTGGATATTACGATCACGCTAA	105	61.06
AGCACAACACCACCGTCCAA	184	60.97
CGAACTCGAGCAATTCAGACTT	125	57.38
GACAATCGGAGTAGAATTCGCAA	139	59.23
TATTGTGATTACGCTGGTTGGTA	941	56.04
GACAATCGGAGTAGAATTCGCAA	130	59.23
AGAATAAGACGTGATAGCAACGAAGC	902	60.13
TTAGTCCTGATGACAGTTATGCAATGG	1045	61.29
ATCGTTCTCGGCCTGCACTA	1066	59.43
AAGTGGAGAGGTATTATTGAAGCAG	514	56.15
ATGATCGCTGACAATCTGTAGCA	768	59.76
ACCTGTTATCACCGCTACGAGA	357	57.52
TGTTGGTGCAATTCGACGAA	27	59.67
TCACGGATGTCAGGAATGATGA	1451	59.9
TCACGGATGTCAGGAATGATGA	1262	59.9
TCACGGATGTCAGGAATGATGA	1416	59.9
AATGTCTGCTGAAGATGTTGAACG	29	59.3
CTACCATTCCAGCGTCTTGTC	220	56.04
TCTGTCCGATAAGCCAAGTGA	478	57.03
TCTGTCCGATAAGCCAAGTGA	396	57.03
GGCATCGAGAACGTCTTCGT	85	58.88
ACAGTGGAGTCAACGGCAAG	47	57.38
ACAGTGGAGTCAACGGCAAG	47	57.38
GAGTTGTGAGGAGTAGAGGAGAGG	41	56.49
TGACGCAGTGGCAATGTGAA	732	60.83
TCATAGAGCCGCCAAGCATT	1990	59.4
TTGTCAGGAGAAGGCGGTCA	934	60.34
GCTTCAGTTGCCATCTCGTC	23	57.07
ATACGAGAAGGAGGACGATGC	104	56.99
AGGCTCCGCACAGAATACAC	324	56.49
AGGCTCCGCACAGAATACAC	145	56.49
AGGCTCCGCACAGAATACAC	284	56.49
GCTTCAGTTGCCATCTCGTC	128	57.07
GCTTCAGTTGCCATCTCGTC	23	57.07
GCTTCAGTTGCCATCTCGTC	23	57.07
TCTCTTCTCAATGTCTAATCTACCTGTT	850	56.36
ATTCTGTGTCAAGTGTGTTTCGGA	374	58.22
ATTCTGTGTCAAGTGTGTTTCGGA	73	58.22

GGACCAAGACAACAAGGAACTATG	1304	57.76
GCGCCTCGAGACAGAGAAGG	436	61.14
TTGGATAACAGGAGGATAAGTGGT	76	56.85
GTGTCACGATGAGCACCTGA	59	56.7
GCGGCTCTCTGTCATTGATG	59	57.99
GAAGAACGAGTTCGTGTGTTTCG	64	58.49
AAGTCAGCGTTAGAGATGGATGG	78	58.41
AATGGACAAGAAGAAGCATCCG	172	59.2
TCCTCCACTCCATCACTGTTC	168	56.15
TACACCTGACGATTGGCAAGAGA	430	60.6
GGCAACTTCCGAGTGTTCTATG	1621	57.49
GGCAACTTCCGAGTGTTCTATG	354	57.49
TTCAATCCACATCAACTTCTATCAC	128	56.05
TAATGACCAATATTATGATGTTGAATCC	219	57.48
GTTCCAGTCCAACAGTTACACCTT	359	57.32
TTCTGGCAGACCATTACGGT	742	56.74
CTTATCAACCACCAGGAACCG	150	58.04
AAGGATTGCGTTGAGCAGGTG	119	60.07
CACAACAACAACAACCTCCGAA	36	59.5
GCAGCAGAAGGATTTCGTATGAG	1765	57.72
ATCAGTTGGTTGCCGAGTTGG	1247	60.85
GCAGCAGAAGGATTTCGTATGAG	1964	57.72
CACAACAACAACAACCTCCGAA	36	59.5
AATTATCAAGACGCCTTGTTCCG	45	60.28
AATTATCAAGACGCCTTGTTCCG	45	60.28
TGACGCAGAGAAGCACAAGA	1139	56.86
ATGACGACACCTACGCCAGTT	1548	58.2
ACTGGTTGGAATTACGTCTATGATG	201	57.28
GAGAAGACGGAGAGGCTGGA	776	58.14
GAGAAGACGGAGAGGCTGGA	775	58.14
GCAGATTGTGATTACCGAGCA	1256	57.45
TGGTTCTGGATTAGCACACGAG	72	58.84
CTTCGCTCTCCGTATTGCCT	812	58.17
CTTCGCTCTCCGTATTGCCT	813	58.17
CTTCGCTCTCCGTATTGCCT	731	58.17
CTTCGCTCTCCGTATTGCCT	533	58.17
CTTCGCTCTCCGTATTGCCT	812	58.17
GGAATACGACGATATTGTTGATAAGC	233	58.18
CTTCGCTCTCCGTATTGCCT	812	58.17
CTTCGCTCTCCGTATTGCCT	813	58.17
TTCCAGAATCAAGGCAGTCAA	979	57
TCACCGACTGCTACTGCGTT	42	58.13
CCTGCTACCTGGAATCTACGC	656	57.59
AATCGGAGAAGTTGGCAGAA	744	56.08

TGGAATCGCTGCTCTCAACT	826	57.23
CGTCCTACTATTGCCATCTCATCG	982	60.76
ACCTCGTCTCTTCCGCCTAT	849	56.59
ATGGTGATGGCAATGGTAGC	443	56.95
CGACTACGGTAGCCAGAATGAAG	85	58.95
AATGCTCGTAGAACGTGAGGTG	316	58.01
AAGGCACTCGGCATCTCAATC	136	60.18
AACGACACGCCACAGATGATG	139	60.54
AACGACACGCCACAGATGATG	380	60.54
CGAAGACGACTCCAGTGAAGC	197	58.68
GCTCAACTCCGCACCAACAC	59	60.27
AAGCAGAAGCAGCAGAAGCC	83	58.57
AACGACACGCCACAGATGATG	313	60.54
GAAGAATGTTGGTGATCAGGCA	772	58.63
GAAGAATGTTGGTGATCAGGCA	786	58.63
AACATATGAGCAGAAGAAGGATGAAC	800	58
AACATATGAGCAGAAGAAGGATGAAC	814	58
CATTGTTGCTTGTTATTCAGAGAGTT	1227	56.96
GGCAAGGATTCGTGATGTCT	86	56.23
ATTATGAGTGGCTCTGCGGAT	669	57.39
GTAGAAGCACGAGGACAAGGAAT	264	57.61
ACTCAGTGACAACTCCAGAGCATT	647	58.09
CAAGATGCTATGAACAACGCTAA	434	56.07
CTTGAAGCAATCTATCATCATTGTATC	198	56.42
TTCTTCTTCGGAGTCATTATTCTTC	172	56.17
TTCTTCTTCGGAGTCATTATTCTTC	172	56.17
CTTGTTGTTGGAGTCGCTGTCA	146	59.91
AATACTCCAAGCAACCGACCT	357	56.48
AAGGATATTAGTGATGAAGATGTGAAGC	9193	58.35
AAGGATATTAGTGATGAAGATGTGAAGC	1069	58.35
TATTCGCTTCTTCTTGCTCTCG	224	57.68
AAGGATATTAGTGATGAAGATGTGAAGC	9193	58.35
AAGGATATTAGTGATGAAGATGTGAAGC	1150	58.35
AAGGATATTAGTGATGAAGATGTGAAGC	778	58.35
TCTGTATGATGGCACCTGGA	801	56.04
TCTGTATGATGGCACCTGGA	271	56.04
CGGAATATATCGCGACGAGAA	46	58.79
CAGGTTAGCTGGTGCGGCTT	51	61.24
GCATCCAGCCGTAACACCTC	648	59.15
TTATTATTGACGCATTCACGAAGA	1493	57.55
GCAGACGCAGGACAAGCAAT	274	59.98
ATCCGATTACTATTCTACCATAGCCTA	482	56.2
ATCCGATTACTATTCTACCATAGCCTA	712	56.2
TTGCCGCCAATTAGAATGTG	93	58.24

GGAAGGAAGCTGTTGAGACTGG	74	58.97
GCACGAACAATCGATTCCAA	54	58.15
CAGTCAGTGATGGTTATGCGAA	158	57.38
CAGAATATCGGTTCCAGGAGCA	276	56.53
CAGAATATCGGTTCCAGGAGCA	276	56.53
CAGAATATCGGTTCCAGGAGCA	433	56.53
CAGAATATCGGTTCCAGGAGCA	129	56.53
CGCCTGAGAAGAGAATCTGTGA	494	58.28
ATATTGAAGCCAATGGAGTAGCTG	250	57.6
TTATGCGGAGAGGATTCAAGA	944	56.16
CACTCTCTTGTTGCGTTGCG	92	59.22
ACCGACAGTAACAACAACAACG	382	56.38
ATCACCATCGCTCAAGGAAC	48	56.23
ATACCGAGTCAGAGAGGACCGTT	412	59.15
GGCGAAGATGAGGAATAGTGG	1200	57.37
CGGTGCTGATGTTCCAGAGG	1774	60.22
TCTATGGCTTCTTCTTGGCTGT	323	56.9
CAACTGTTCTCGTGAATGACCA	120	57.32
TGTAGTTGAGACGATTCTGGTG	100	57.86
CGTCTGCTCGTTAATCCACAAG	652	58.51
TCCATCAGCGTCTTCATTACC	721	56.37
TTGGAGGATGGATCAATTATATGG	328	57.8
ATGTGTATATTGTTCTGTGGAGAGC	562	58.57
ATCAATCCTATCACTCATGGTGTTGG	125	61.08
TGGAATCAACAGTGGCATCG	2172	59.08
ATTGCCAGATATAAGAAGAATGTTCCG	245	57.97
AAGCACCAGGACTCGGACTC	35	57.92
TCAGGCGGCTTCAGATCAATC	336	61.18
CCGTCGTGATTTCGTGGAGTT	147	59.55
CCGTCGTGATTTCGTGGAGTT	149	59.55
GTTCTCTCGCTGCTAGACATTCTG	918	58.49
GTTCTCTCGCTGCTAGACATTCTG	449	58.49
GTTCTCTCGCTGCTAGACATTCTG	617	58.49
GTTCTCTCGCTGCTAGACATTCTG	943	58.49
GTTCTCTCGCTGCTAGACATTCTG	764	58.49
GTTCTCTCGCTGCTAGACATTCTG	561	58.49
GGTGGTGCGGTGATGTGAGA	478	61.53
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GGTGGTGCGGTGATGTGAGA	524	61.53
GGTGGTGCGGTGATGTGAGA	478	61.53
GGTGGTGCGGTGATGTGAGA	524	61.53
ACGACGGCGAGAGTAGGAAT	419	57.5
CCTGGATGATGTTGGAGAAGC	80	58.19
TATCTGGCAGTGGACACGCAAT	1237	61.37

GAATGAGCGAAGCAGTGGAC	60	57.07
TTCATCGAAGGCTAACAGCAA	683	57.27
CAGTCCAACCTCCGTACCAAC	76	58.03
GATCACGACTCAACCACCGT	63	57
GATCACGACTCAACCACCGT	146	57
CCGCCAACAGACAAGTACCT	86	56.4
TTACGATGCTCAGCCAAGAAGA	234	58.72
GTGAGGTTCTTGAAGGAGAAGACTGC	632	61.79
GGAATATCATCTTGAAGATAGCACATG	497	58.24
GCCATGTTGATTCCAATGAGAC	328	57.97
AACATGCGTCGACAGCTAATAGC	720	59.44
GCTGTACAACCTCCGTGGACA	231	57.33
CGGAAGAGAATGAGGAGGATAAGG	839	60.34
GCTCTGGCTCATCTCTACTCGT	1730	56.56
AAGAGCGGCGAGAACTGATAG	333	57.48
TTCATCACGACTTCACGGCTA	238	57.97
GGTGGAACATATGCGTCTTGG	1423	56.74
GTGGAGACGACGGAGGTGTT	147	58.59
CGATTCATTGATTCTGTTCCG	192	60.38
AGTCGGTCGGTCGGTCTGTT	287	60.51
TTAGAACATCAATTAGAGACCGTCAA	98	57.24
TGTAGCGTCATTGGAAGGTGT	308	56.82
TGTAGCGTCATTGGAAGGTGT	342	56.82
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AAGGATGGACAGTTGGATGC	1598	56.07
AAGGATGGACAGTTGGATGC	1710	56.07
AAGGATGGACAGTTGGATGC	1552	56.07
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ACAAGAGATTATCAATGTGTACGACAA	234	57.08
ATTGCTATTATGCAGGCGGCAT	435	61.51
GAGCGTAATGTAATAAGGCAAGTG	358	56.11
TGGTCTTGGTCGTCTGGAGATTC	733	61.31
CCTTCCACCAACTCAACAACG	143	59.07
CCTTCCACCAACTCAACAACG	143	59.07
CCTTCCACCAACTCAACAACG	143	59.07
CCTTCCACCAACTCAACAACG	143	59.07
TCTACAACAATGCTCAGTTCAGTGA	225	57.75
G TTCACAAGGACCATCTGGAGAG	279	58.71
GTTGCTGCCACTCCTCTGAT	117	56.49
CCTTATCGGTCTTCTTCTCGGA	1038	58.46
CTGCAGCTTCGAATTCACGT	364	57.72
ATATTCTTATCTCCATTACGATCCAAG	375	56.38
AGTGCCTTATCTTGTTGATGGAG	1486	56.22
AGTGCCTTATCTTGTTGATGGAG	1480	56.22

AGTGCCTTATCTTGTTGATGGAG	1510	56.22
GCAGAACTTGGTGTTCATTG	286	61.53
TTGACGAAGAACCTCCAGCA	47	58.02
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ACGAATGCCAACGCTCAACA	44	61.17
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AGGCTGTCCGGTTGCACATC	789	61.96
AGGCTGTCCGGTTGCACATC	960	61.96
AGGCTGTCCGGTTGCACATC	858	61.96
AGGCTGTCCGGTTGCACATC	1040	61.96
AGGCTGTCCGGTTGCACATC	858	61.96
AGGCTGTCCGGTTGCACATC	1040	61.96
AGGCTGTCCGGTTGCACATC	873	61.96
AGGCTGTCCGGTTGCACATC	1055	61.96
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TACGACACCTTCAACATCAACG	474	57.29
AGGCTGTCCGGTTGCACATC	846	61.96
AGGCTGTCCGGTTGCACATC	1017	61.96
GCATGTCAATTCACAGATCAAC	311	58.04
ATAGTCACAGCGGAAGTTACGG	671	57.1
TTCTGCTGAGGACATACTCACG	430	56.71
CCAGAAGACACCGAGCCAAC	668	59.28
GCTGCGATGAGTGGAGGAAT	4367	58.84
GCTGCGATGAGTGGAGGAAT	4397	58.84
CCAATCACCTCATCCTGCTC	76	56.69
TTCGAAGCTTCAGCAATGGC	284	60.05
CTCGTCCTTCTCGCCGTCAT	124	61.25
GCTGAGTACATCGACGTTGACG	187	59.4
CTAACGACAATCCGAGACCAG	696	56.05
CACACTGCTTCGGTCACCTGTC	735	61.64
GAGAACCTGCTTCACGCCTA	122	56.77
GAGAACCTGCTTCACGCCTA	41	56.77
AACGAGTTCCAGATGATTATCACC	71	57.24
AACGAGTTCCAGATGATTATCACC	222	57.24
AACGAGTTCCAGATGATTATCACC	136	57.24
GCCTACGAGTTCTCAGCGGAT	372	59.46
GCTGAAGCTAACGCACCAAT	159	56.75
GAACAACGCTGACATGCCAA	193	59.28
GTCTATCGGAATGCGGATGTGT	124	59.81
TTAGCTGCTCCGTGCAATGG	228	60.86
TCCAGTTGATACGAATGGTGTG	629	57.08
TCCAGTTGATACGAATGGTGTG	490	57.08
GGAGGAGGAGGAAGAGGATG	1244	56.35
CGACTGCGTTGGAGGCTAAG	1078	59.6

GAGTGTTGGCTTGGATTGGT	245	56.14
AATCAAGCAAGTCGATTGATCG	367	57.95
CGCATCTAATTGCACATCCA	158	56.79
TGAATATTCTTATCATCCTGTTGGC	26	57.36
AAGAAGCTATTCCCTGGATTGATAGATC	361	57.69
CAACACGAAGTCTAATGATGCTG	1888	56.27
CAACACGAAGTCTAATGATGCTG	1888	56.27
CAACACGAAGTCTAATGATGCTG	1888	56.27
ACTATGATGATGTCCGTCGTTACC	309	57.97
GAGAGAGAGGACATCAATACCGA	896	56.15
AAGCTGCAATAATGATTATTCCAAT	672	56.34
TATTGTCGTTGTGTTAGTGTTCTCG	232	57.17
GAGGAGGACATTGAGAAGCATT	66	56.13
CGTGTAGCCGATCAGTGTCAC	346	57.84
TGCTCGTTCCTTCAATCGTC	52	57.48
CTAACCACCAGCACACTACAACCTCG	111	60.9
GCTCGTTCCTTCAATCGTCGT	50	60.21
CGTGTAGCCGATCAGTGTCAC	253	57.84
TCGTGTGATTATGATTGTGTCGT	290	56.65
CGAACCTACGAGCACAATCAAC	51	58.38
CCTGTGGACAATGGAAGCAC	197	57.58
TATTCTCCTCCATCTGCCACAT	81	57.24
CGGACACACTACTGACCTGATTACTG	43	59.97
CATACCGACAACGTCTTCTTCTC	34	56.69
TTCTCCGATTATATGGCTCCGT	1075	58.59
TTCTCCGATTATATGGCTCCGT	1092	58.59
TTCTCCGATTATATGGCTCCGT	1044	58.59
TTGTGCAAGTATAAGGCCAGCT	758	57.73
TGACTCCATCTCCATTCAATTGATTG	388	60.98
TGACTCCATCTCCATTCAATTGATTG	73	60.98
TTGTGCAAGTATAAGGCCAGCT	684	57.73
TTGTGCAAGTATAAGGCCAGCT	745	57.73
AATGCGTATGGTTCCGTGTAC	252	56.16
CGATGAATACGGTAGAACCAAGA	1189	56.98
CGATGAATACGGTAGAACCAAGA	2131	56.98
AAGGAGAGCAAGGAGCGGAT	912	59.02
CAATGTCTGCTGATGATGCG	1606	57.38
TGAAGACGGAGATCCAAGTGAGT	1216	58.84
CCGAATGCAGAGAATAATCACTG	324	57.53
GAGGATGTGCTCCAAGATGC	237	56.84
CAGCCACCGATTGTGATTGC	116	61.01
GCCACCGTTCTTGTTATGCC	1023	59.03
GCCACCGTTCTTGTTATGCC	1019	59.03
CGACACGGTGTTGAGAAGAGT	104	56.49

CGACACGGTGTTGAGAAGAGT	83	56.49
CTTGGTTCAGTTGGTGTCTGGTAC	106	59.82
CCTGTGTGTAATACGGTGACTTGC	150	59.47
AATCACAACCAACGCCTCAA	33	57.66
ATAATGGAGGAGGTGGTGGTG	1623	57.31
CGATGATGACGATGTTACTCACG	415	59.11
CGATGATGACGATGTTACTCACG	291	59.11
GCGTCTTCAGTGATTGGTTCTG	537	59.32
TTCCTCTTCTGCTTCTACCACAAGA	63	59.55
AATCGACATGACCACCGTCT	36	56.46
TTCAGGCACGGACAGTTCGA	480	61.33
AATAATTACGAGGAGACTGCACAGG	223	58.8
GCCGTGACCAATAAGCAAGG	344	59.17
ATCTTCGTCGTATAATGTGATGAATGCT	210	61.11
AGGCACATGATATCGAGGCGTT	966	61.62
GGACAGCGAGTGCGAAGAAG	85	59.72
AGAGAACCTGGAGATTGTCGTG	249	57
CCGATTGATCCGATTGGTGA	896	60.23
CGAGAGATAGAGATAGTAGACGCAGA	85	56.58
CGAGAGATAGAGATAGTAGACGCAGA	75	56.58
CCAGAAGAGGATGAACCGACT	635	56.92
TTGCGTGTGTTGTAATGATGC	619	56.77
TTAATAAGGATGCAAGAGAATAGTACGG	74	58.44
TGGCACAGCGACACTTGATG	524	60.43
TGGCACAGCGACACTTGATG	588	60.43
AATGAAGACTGATTGAGATGCCA	83	57.42
TGGAGCAGTTCATTCACTCTCA	141	57.13
TGGAGCAGTTCATTCACTCTCA	141	57.13
TGGAGCAGTTCATTCACTCTCA	141	57.13
TGGAGCAGTTCATTCACTCTCA	446	57.13
TGGAGCAGTTCATTCACTCTCA	446	57.13
ATACACTGGAGACTGACGCTGGA	799	59.77
TGCTCGCCTGTTATTGCTA	484	58.29
CTACACCGCACCTTGAGCAC	380	57.98
GTTCCGCACCTTGAGCACCT	287	61.15
CTACACCGCACCTTGAGCAC	381	57.98
GGCGGAGATGACGAGACACA	109	60.79
AGGAACATCAACCGCTCAAG	195	56.46
TTCATACAATACATCAGCAACCAA	349	56.02
TTCATACAATACATCAGCAACCAA	137	56.02
TTCATACAATACATCAGCAACCAA	341	56.02
TTCATACAATACATCAGCAACCAA	349	56.02
CATCCAGTGTGCAATGCTTG	34	57.28
ACCACACCTCTCCTGATACTAACG	170	57.43

CGGAGCTGAGGCGATAGTTC	170	58.63
CGGAGCTGAGGCGATAGTTC	232	58.63
ACCACACCTCTCCTGATACTAACG	170	57.43
TTGCTGTTGAGTTGGTGGA	75	58.85
TACCAAGACCAAGACCAAGAACG	134	59.15
AGAGCACGACGAAGAAGCAG	816	57.04
GGAGAATACATTAGTATGCCAGTAGTTC	568	56.18
AGAAGCCAGCTATATTCGTCCTC	619	56.97
GCAACCGTCGTTACAAGTCG	524	57.89
GTGGTCATTGAGTAAGCCGTCT	315	56.97
CACTACTCTGCGTCGTCGTCTCT	1696	59.72
TCCGTCGTGTCTTCGTCCTC	36	59.81
GTATCTGGCAACATACAAGACTTACC	155	56.31
GGAACCATCCTTGAAGTTAATGTATC	710	57.27
CATTCACTCATCTTGAGGAGGAG	1008	56.64
GCCAGAAGCATTGTGGAACA	245	58.3
GGTCCTGGATCATCTTCTTCG	785	57.25
GCAGCACCATCAACGAGGTC	67	60.24
TTCGAGAATCGGACGGAGAT	134	58.27
GCAGCACCATCAACGAGGTC	58	60.24
GCAGCACCATCAACGAGGTC	59	60.24
GCAGCACCATCAACGAGGTC	36	60.24
TCTGGAGCATTGTGTGAAGGC	1202	59.83
ATGGAGAGCGGAAGCTGATG	324	58.98
TGGAAGAACTTGTCTGCTGAGG	267	58.18
ATGCTCAAGGAAGAGGAGAACAAG	104	59.05
ATGCTCAAGGAAGAGGAGAACAAG	98	59.05
GGCGAAGAAGAGTGGAAGTG	2107	56.18
TCCAGAACACTCCGACCGAT	32	59.09
AAGCCTGAATCTCTCCTGGACTATG	579	60.08
ATCTCCGTTGTGTTATCATTCTCC	272	57.24
ACTGGTTCTCTGGTCGCTTG	710	56.57
CCACGGTACAGTTGACACAGTT	773	56.25
TAGTAGTGTACAGATTCACATCAGTGCA	335	58.11
AGAGTCATTGAGAAGACATAATCACTT	626	58.14
CTGAGGCACACAGAGACATTCTC	164	57.67
TAATCGGAGAAGCAATCTACGG	878	57.19
TAATCGGAGAAGCAATCTACGG	878	57.19
TAATCGGAGAAGCAATCTACGG	878	57.19
GAATTATTCTGTGCGCCGATC	463	58.28
TTCGGTCCAATAAGTATTCGG	469	56.97
CACCGGATGTCGTTGTCAAC	183	58.42
GCACAATCTGATGAGAAGGAGTG	527	57.54
GACATCGTGATTGCCGTCAT	1085	57.96

GTAGGTTCTCAGTGGTGCATGGT	85	59.03
ACATCGGACCACAAGGAACA	439	57.42
GAAGAGACAAGCTGGCGAATG	245	58.67
GGAGCCTGGTGACATCAGAGAG	128	59.84
GGACAATGAGAGGAACACTGACC	3364	58.57
GGACAATGAGAGGAACACTGACC	2651	58.57
GATGGCTCGACTGTCGGAGT	459	58.85
CGGTGGTCAGCCTGATAATGC	1877	61.33
GGATGGTGGTCAAGGTGAAAGTG	374	60.22
TGAGAAAGTGTGGCTTCAGACAATG	335	60.28
ATGTGAGGAGTGTGGCTTCGG	319	61.02
CCTGGCACTTGTTGAAGAGAG	59	56.27
AGAGGAGTTGGACGATGCTGAG	145	59.47
CGCTTCAGTACTCGCCGAGA	264	60.25
AAGACGAACAGAGGACGAGCA	560	58.68
AAGACGAACAGAGGACGAGCA	1326	58.68
AACTGATACAATATGGTCTAGCGACA	1131	59.07
TTCGTGGTGTATTATTGGATGG	336	57.44
TGTACAGGTGTTACGACACG	284	56.68
TGACGGTTCCAACTCGGTGA	157	61.05
TGACGGTTCCAACTCGGTGA	171	61.05
CTTGATAGTAAGCAGATTCATTCGC	143	57.46
CTTGATAGTAAGCAGATTCATTCGC	112	57.46
TTGAGGCACACCAATAAGCC	232	57.29
AATGACATGGTGGATTGCGA	23	58.37
CTCGACAAGACAAGTCTATGAAGG	132	57.9
TTGGAACCGTTGAGAAGAAGG	556	57.9
TTACTAATGTCTTCCACTCCTCAA	96	57.22
GCTTCGCTCGCTCGTGTGTA	44	61.21
TTCACAATAACTCAGGCACCGT	910	58.24
GCTGTGTGGTTGAAGTTGATGT	3941	56.3
GCCGCCATCACTAACAAGAC	343	56.89
GAACGACGACAGAGTAGGTGGT	930	56.93
CGTCACACACACACAATGTAATGTC	95	58.85
GGTGTGTGTGTGTTTCGTATTCATTC	99	59.21
TAATGTCACACTTCAGTCCTGGATACTC	257	59.82
GTATCTCTCCGCGCGACGAT	101	61.21
TGAGAGCAAACTGACGAAGAAC	419	58.25
ATCCGCTGTCTACACTCTCACTC	156	56.34
ATCCGCTGTCTACACTCTCACTC	139	56.34
CTGATAATGACCGTCTTATTATGGTC	78	56.18
CAAGACATTACATTGTGTGTGTGTGAC	76	59.3
GCACTCATCGTCTTCAACTCAA	206	56.68
CAGTAACAGCGAGGCACCAA	88	58.52

CAGTAACAGCGAGGCACCAA	330	58.52
TGGCGTCACATCATTACAT	453	56.88
TGGCGTCACATCATTACAT	484	56.88
TGGCGTCACATCATTACAT	826	56.88
TCTTCAGCAGCAACAACAGC	2148	56.38
CGTGTTGATGATTCTGTCGTTT	971	56.8
CGTGTTGATGATTCTGTCGTTT	955	56.8
CGTGTTGATGATTCTGTCGTTT	1328	56.8
TGGCGTCACATCATTACAT	820	56.88
TGGCGTCACATCATTACAT	453	56.88
TGGCGTCACATCATTACAT	484	56.88
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TCTTCAGCAGCAACAACAGC	1913	56.38
TCTTCAGCAGCAACAACAGC	2255	56.38
AACTATCGCATGTTGCATTAG	119	56.59
CCACTGGCTCAGTCACATGA	161	56.7
TACGAAGCGGAAGACTATTACTGC	394	57.9
ATTCAACTGTTGATTGGTCGATT	146	56.3
AGGCACTACTCGGAACTGAAGA	413	56.86
GGATAAAGCTCGGAGTTCTAGGATG	293	58.29
CCTGGAGTGCGTGGATGCTA	530	60.76
GTTCAAGAGATCCAGAGGCGGTT	112	61.71
CAGAATAAGGCAGAGGCTTCGTAT	285	58.98
GGATGTGAGCCTGGTTGGAA	134	59.49
GATTCCATATTGCTCAGACCTACA	520	56.15
ATGTGGAGCAGAGATGTGGAC	497	56.18
GGATTGAGATTGATGCTTCGG	1003	58.2
AGATTGGTTATGTGGTGGACTGT	603	56.13
AATGAACGAGCGGAACGGAT	337	60.41
AATGAACGAGCGGAACGGAT	337	60.41
AATGAACGAGCGGAACGGAT	337	60.41
GCAGAAGGAGATCACGGAGA	469	56.56
GCCAACGCAGCTCTTATGTTC	276	58.6
TACTCTACTCGCTGTCGGAATG	51	57.36
CAGCAGTTGTCGTTGGATGTC	328	57.81
AAGCTGACGCATTGTTTCATTC	334	56.58
ATATAGATGGCTCGGATCAGGTCGT	909	62
GTCAATGGAGTGGAGGAGGAA	69	57.62
ATCCTTGTGATTAGTCAGCATCTTGT	262	58.34
ATCCTTGTGATTAGTCAGCATCTTGT	362	58.34
GCGAGATCGTCTTCACCTTC	1544	56.1

GTGACGAAGATGGACATGTTCC	225	57.96
ACACCTTACAATCAACTATTCTACTCGT	53	56.19
CTTCACGCAGCGGTGTCTGT	79	61.01
CGAGCCTGCTTACATAGTCAGAAG	28	58.43
AATTGTTATACACAAGCTGTTACGGT	381	56.37
ACTGAAGAAGATCCTGATTCCACT	2051	56.25
ACTGAAGAAGATCCTGATTCCACT	1994	56.25
GAAGAAGCCTCACAAGCGAA	1272	56.89
CAGTTATTCTTGACGCGTGGA	194	58.87
GATTATTCCTGCCGTCTGGTTC	733	58.57
TGGATGCTGTGCTAGTGATG	245	58.34
CATTCGACCGCACGTTGAAG	246	61.16
GGACTATGAGAGCCTTCCACCA	1195	59.18
GGACTATGAGAGCCTTCCACCA	1195	59.18
CGAGTATGGAGATGATGATGAGG	991	57.25
TGCCAACTATACCTATCACATCTTCA	240	57.88
TTCGCAACAACATCAACAGG	200	56.78
TTCGCAACAACATCAACAGG	200	56.78
CTGCTCACTTCACGTATGTTCTATC	131	56.06
TGAGCTGTTCTTCGAGCACTT	876	56.57
GGCCGGATATTCGCTTGAT	265	61.89
ACTCACCGTATGGAAGATGCG	276	58.67
AATGTGAAGGATCTGACGACGGA	717	61.67
ATGGATGGAATAATCACATTGAGC	816	57.91
TTGGTAATGTGCGGCTGTGT	110	58.65
CCAGTCACCAGTCACAGAAGC	167	56.95
CATACGGTTGAGACAGCTACAGAA	728	57.29
GTCAAGAATGGCGTCCGTTA	145	57.29
ATGTTCTGTGCTGTGGACTTGT	852	56.77
CACGAATACATGTTTCATCCAGAGTATC	711	58.9
AGACAATGATGGAATCGGAGGA	93	59.36
AGACAATGATGGAATCGGAGGA	148	59.36
ATCACAACGACTACTACAACAACAACT	195	56.39
TGAAGGACACACTGGAGGAGA	1105	56.86
CAACTGGTGGCACCTGGAGT	422	59.58
CAATCCGAGCAATCAAGCAT	1009	57.38
CAATCCGAGCAATCAAGCAT	1040	57.38
CAATCCGAGCAATCAAGCAT	908	57.38
CAATCCGAGCAATCAAGCAT	914	57.38
CAATCCGAGCAATCAAGCAT	1156	57.38
CAATCCGAGCAATCAAGCAT	1001	57.38
ACTGCTGATGGCGGATAGAG	532	56.58
ACTGCTGATGGCGGATAGAG	532	56.58
ACGCCACAGGAGAGCCAATC	219	61.13

CTGTGGAGGTGGATGCGAAT	196	59.51
CTGGAGTTGAAGGTGGAAGTGT	299	56.91
AAGCACCATCACCAGTTGTCC	436	58.51
TATTGCCGTCTGAGGAAGTGC	762	58.93
TATTGCCGTCTGAGGAAGTGC	710	58.93
TATTGCCGTCTGAGGAAGTGC	634	58.93
TATTGCCGTCTGAGGAAGTGC	634	58.93
TATTGCCGTCTGAGGAAGTGC	384	58.93
TATTGCCGTCTGAGGAAGTGC	282	58.93
TATTGCCGTCTGAGGAAGTGC	634	58.93
TATGTTAATTGGTTGTATGCTGATCTTC	493	57.85
TATGTTAATTGGTTGTATGCTGATCTTC	502	57.85
TTAATTCTCAGCAAGCTCAGCA	289	56.74
TTCAGTGCAAGGATATGATGATCG	147	59.93
GCTCGAAGGCTCAATGTTGG	270	59.4
AAGAAGATATATGCAACATTATGATCCA	435	57.41
CTGCCTGGAGTCACGTTCGAT	224	59.84
AAGATGTTGGCTATGGTGTACGAGA	639	59.9
AATGACGCTTGGTGTGGAGA	760	57.74
GCACAACGATATGCCTCCAA	88	58.18
AGGATAAGAAGACGACGAGAAGG	1373	56.91
TCTCTCCTTCCTCACTCTTCACA	67	56.86
CCACCTAGCTCACAAGCAAGG	97	58.6
GCACAACGATATGCCTCCAA	88	58.18
GAGATTATAGAGTTATTCATGGATCACG	1214	56.78
CTGCCACTGTAACTCAACATTCTG	880	58.9
ACGGCTGTGGAAGTACTGACTG	142	58
TCGTCAGCCTTCGTCTATGC	339	57.66
TGCTGGCTACCATATAACCTCA	1087	56.13
GAGTAGCTCGTCAACAGGTCCAC	91	58.91
GGTCAGTGGCGTGGAAGAAG	658	59.28
ACGACGATGAACCTCCAATCTCTT	226	61.12
TCTGCCAAGCGATGAGTGTA	375	56.61
ACAATGATTATCGCAGTGATGAGG	444	59.01
AACTAGACGAGATTCTGGACGATT	754	56.39
TTGCAATTGATCAAGGAAGAGC	379	58.06
CGACGCACTGTGTGAGTCTC	63	56.49
TACTTCCTTATTATCACCGAATTGGTT	54	59.48
AATTCCAAGATATTCATAGAAGTGCTC	158	56.55
GAACATATCTTCATTGGTATGACGAA	300	57.29
GGCGACTATGACGAAGATGG	313	56.83
GGACTTCCTGGATGTTCAAGAGAA	106	58.31
AATGATTCTTCTGCACACTGTGA	237	56.1
CAACATCATCAACACCATCCG	161	58.28

TGCTCCTTCGTGCCATTCTTC	57	61.2
AATGGCACTTGGAATGGCTT	787	58.12
GACATCATCGGACCAAGAGGA	479	58.53
CGCCAGAAGAGGAGTACGAAC	334	57.69
ATAATGCGTCAGGATGCTCAC	1459	56.4
CGCCAGAAGAGGAGTACGAAC	115	57.69
ATAATGCGTCAGGATGCTCAC	1102	56.4
TGACCGATTGCCGTTGTTAG	25	58.23
TTGGAGGAGAGAGGCATGATTG	2977	60.15
GTCTATTCATCAAGCAAGTGCCAAG	1099	60.12
GTGCGAGACCTATGACAACAAG	478	56.12
GTGCGAGACCTATGACAACAAG	460	56.12
GTGCGAGACCTATGACAACAAG	256	56.12
TGAAGCCAGTCGCCATCTAC	164	57.51
ATGTACACCAACTTCTCCACTG	448	57.7
AATTGAGCAAGATTGCCACGT	207	58.32
GCACCTGAGCCTCAGTGGA	91	59.96
CCGAATGGAGTGATTGTGCA	170	59.08
TTGGATTCATATTATGCACATGC	320	56.27
TATGCCACGTCCTACTGAACTTCC	466	60.38
GGATGTGACCTGCTAGTTCCA	291	56.32
CAGCGTGGAGAATGGATGTC	542	57.68
GGCTTATGAAGGATGATGAGACTC	2146	57.08
GGCTTATGAAGGATGATGAGACTC	2124	57.08
GGCTTATGAAGGATGATGAGACTC	2038	57.08
GGCTTATGAAGGATGATGAGACTC	2102	57.08
GGAATTGATGGATGTACTCGTGT	152	56.59
GAGCTGAGTGCCAGTGTGGA	1781	58.55
GAGCTGAGTGCCAGTGTGGA	1781	58.55
GCCGATGTTGCCAGTGAAGA	596	60.75
GCCGATGTTGCCAGTGAAGA	182	60.75
CCAGTATCCGAAGAATCAGAGC	566	56.7
ACCGCATCCGTCTGACCTTG	155	61.95
ACCGCATCCGTCTGACCTTG	406	61.95
GATGCCTACGGATGTGAAGAAGA	178	59.21
GATGCCTACGGATGTGAAGAAGA	178	59.21
TCGTGAAGGTTGAGATTGCTG	1483	57.55
AAGTGTGTGGCTGCGTTGTTT	360	59.79
TTCTCAGATTACTGCCAGATGCT	306	56.91
TTCAAGGTCGAGAAGTCGTCTT	611	56.83
TTCAAGGTCGAGAAGTCGTCTT	614	56.83
TTCAAGGTCGAGAAGTCGTCTT	684	56.83
ATAGACATGCTCGCGGAGCT	1239	58.66
GATTGTGGACGGACTGCTGAA	838	59.69

TGTGACATTGATACGATGACGA	112	56.12
CATCCGCTGAGAAGAGAATAGAGAA	375	59.17
CGATACGCCGAATGATGTGT	2602	58.06
CGATACGCCGAATGATGTGT	2602	58.06
CCGAAGTGGAGGAGGAGACG	946	60.72
CCGAAGTGGAGGAGGAGACG	946	60.72
CCGATAGAGAGCAGCAACCG	124	59.56
CTTCTCTCCGTCTCCTTACACAG	150	56.06
CTTCTCTCCGTCTCCTTACACAG	150	56.06
CTTCTCTCCGTCTCCTTACACAG	53	56.06
CTTCTCTCCGTCTCCTTACACAG	121	56.06
CTTCTCTCCGTCTCCTTACACAG	150	56.06
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GCAGCAGCACAGTCACCATC	821	59.01
TTCATTGGTGCAAGACGAGTT	153	56.94
GCTAATCTCACTGCTTCTCCGT	767	56.52
CATCACTACTTGTGTGTGAATCATT	188	56.46
TGGAAGTGAGAAGGCATTG	181	57.48
TTCACAGAGTATGATTACTTCGATGGT	842	58.28
CGGTGGCGTAGTGAGAGCAG	173	60.55
AGAGTGTGACGTTGAGTTGAGA	1029	57.72
AGAGTGTGACGTTGAGTTGAGA	1029	57.72
TTGATTATGGTGTTCTGGCTGAA	176	58.23
AGAGTGTGACGTTGAGTTGAGA	1029	57.72
GGCTCTTGTTGGCTTCACAGGAT	441	61.45
TATTCAGTTGGAGTTACAGCAGCGA	1764	61.04
TGAAGCAGGAGCAAGAGTAGATG	67	57.53
AGACTGAAGGAGGCTGAGACC	1006	56.24
ATTCATTGCTGTGTGAGATGATG	1045	57.87
ATTCATTGCTGTGTGAGATGATG	1031	57.87
TTGTGCTTGTGGAGGAGGAC	211	57.29
ATTCATTGCTGTGTGAGATGATG	1253	57.87
ATCCGCACCGTCTCATCCAG	609	61.93
ATTCATTGCTGTGTGAGATGATG	961	57.87
AGACTGAAGGAGGCTGAGACC	849	56.24
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ATTCATTGCTGTGTGAGATGATG	1031	57.87
ATTCATTGCTGTGTGAGATGATG	1031	57.87
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GCATCGTCGGCTATTGAGGA	849	59.76
GCATCGTCGGCTATTGAGGA	934	59.76

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ATAGAGGAGGTGTCGCCAGGA	225	59.67
ATGCGGAACGATATAATACTGATG	1047	56.1
CAACTCGTGCTGTCATTCTG	69	57.96
TTAACGAGAAGATTGAATGAGTGC	712	56.46
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GATGTGCCTTGAGAAGCGAGT	587	58.15
GATGTGCCTTGAGAAGCGAGT	703	58.15
GATGTGCCTTGAGAAGCGAGT	811	58.15
GATGTGCCTTGAGAAGCGAGT	709	58.15
GATGTGCCTTGAGAAGCGAGT	23	58.15
GGTATTGCGGTGATTGTGGA	1187	57.88
GTGAACATCCGATTACTGTACCAAG	1247	57.73
CATACAGTGACAGGTGTTCTATTCC	136	58.9
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ACGATTCAGAGCTGCAGAAGG	689	58.29
ACGATTCAGAGCTGCAGAAGG	365	58.29
TTGGAGAAGGAGAGAAGAAGCA	210	57.04
AAGCAGAGTTGAGCACAGGTG	74	56.8
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ACGAGTGGAGGAGATGAAGAGAG	172	57.72
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AATATTGTACAGAGCGGCGAA	197	56.26
AATCAACGAATACATGAGTAACATGC	706	57.37
AATGTCAGACGCTCTGCTTCTCA	1208	60.15
GCATTCTCACGGAACACCAC	290	57.58
GACGCATTCCAAGGTCACGA	35	60.61
AATCAGAATAGTTACAGTAACCGTCAAG	517	56.62
GCTGACTTAACATCTCTGAATAATGTGA	189	58.12
GCTGACTTAACATCTCTGAATAATGTGA	287	58.12
TCACGAGATACTACAGACCACCAG	589	57.06
GAATCAGACAGCCAGAACCG	342	56.91
AACGAGAAGAAGCGAACACG	663	56.83
AACGAGAAGAAGCGAACACG	1177	56.83
AAGGACTGACCGTGGAGAGC	1091	57.92
GGTACTGCGTCTCTCGATAGCC	98	59
TTCTAATCCATCCAGCACAAATCC	790	58.93
GTCTGTTATCACGAATCCATACACA	870	56.78
GCATTCTTGGTCTTGAGCA	410	57.48
AATTGAAGTTCCTCATGGACCA	948	57.12
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GGATGCCGAAGACAATGGAA	2536	59.46
GGATGCCGAAGACAATGGAA	2120	59.46
GGATGCCGAAGACAATGGAA	1629	59.46

GCTGCCGAGTGATGTGACAA	563	59.41
GGATTACCGAAGAGACCGATG	55	57.22
AAGCTGAAGAAGTGGTTCGTCTT	120	57.42
CGACAACAAGTCAATCTACGATACCT	425	58.73
CGACAACAAGTCAATCTACGATACCT	425	58.73
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CGACAACAAGTCAATCTACGATACCT	597	58.73
CGACAACAAGTCAATCTACGATACCT	554	58.73
CGACAACAAGTCAATCTACGATACCT	384	58.73
CGACAACAAGTCAATCTACGATACCT	384	58.73
AACACAGCCAGGACCAGGAT	1330	58.04
AACACAGCCAGGACCAGGAT	1330	58.04
AACACAGCCAGGACCAGGAT	1220	58.04
AACACAGCCAGGACCAGGAT	1299	58.04
AACACAGCCAGGACCAGGAT	1256	58.04
CGTCCTCGGATACAAGCAGACTCT	120	61.86
CGTCCTCGGATACAAGCAGACTCT	88	61.86
CGTCCTCGGATACAAGCAGACTCT	242	61.86
CGTCCTCGGATACAAGCAGACTCT	88	61.86
CGGTCTACACCACATTCTCA	77	57.12
CGGTTAGCGAGGTGGAGATG	50	59.28
ATGTTCTCGTCTGGATTTCGG	639	56.23
ATGTTCTCGTCTGGATTTCGG	639	56.23
GGTGTGAAGTTAGTGAAGAGCAGCAA	336	61.84
GGTGTGAAGTTAGTGAAGAGCAGCAA	336	61.84
TGTGAAGTTAGTGAAGAGCAGCA	335	56.63
TGTGAAGTTAGTGAAGAGCAGCA	335	56.63
GCAATGCGGAAGATGGTTAC	470	56.78
GCAATGCGGAAGATGGTTAC	470	56.78
GCAATGCGGAAGATGGTTAC	185	56.78
GCAATGCGGAAGATGGTTAC	185	56.78
TGTGAAGTTAGTGAAGAGCAGCA	50	56.63
TGTGAAGTTAGTGAAGAGCAGCA	50	56.63
GGTGTGAAGTTAGTGAAGAGCAGCAA	51	61.84
GGTGTGAAGTTAGTGAAGAGCAGCAA	51	61.84
ATGTTCTCGTCTGGATTTCGG	453	56.23
ATGTTCTCGTCTGGATTTCGG	453	56.23
TTCACCTCCAGCCAATGTCAA	2006	57.8
AGGCTGATGTCTCATATCATCTCTGA	26	59.27
ATTATGTCGTTGACCGCCAA	86	57.56
GGCGATTGTTCTGATTATGAAGGC	2230	61.65
GGCGATTGTTCTGATTATGAAGGC	2273	61.65
GGCAGCAGACTCAGCAGGAT	90	59.15
ATTCAGCGAGAGGCGTTGGA	651	61.74

AACCTGGACGACGGAAGACC	4119	59.93
TGGCAACAATCTCACGGACT	350	57.74
GGATGTTGGTGTGAGGAGGA	317	58.43
AATTGTGAGCCTGATGGAGAAG	184	57.03
TTCTTAGGACGACGATATGATACCG	169	59.41
ACCGAATATGGCGTTCATTGG	343	60.5
AGCCGTAATCCATCGTCTTG	214	56.39
TCATAAGCACACGGAGCAAG	865	56.16
TTGTGGCTCAGATCGTTGAAG	267	57.55
TGGTCTGATGATGTCATGGTAGA	912	56.6
CGGCGAGGTTCTAGTATTGG	160	56.13
CGTACTATTCTGCTTGAAGTAGTTGTTG	510	57.97
CGTACTATTCTGCTTGAAGTAGTTGTTG	510	57.97
CCACCTTGACACCTTCCAGA	106	57.13
ACAGCGGCACTGGTAATAGC	255	56.63
TACGCTGAGAAGAGTGGAGGTG	4030	58.21
TACGCTGAGAAGAGTGGAGGTG	4039	58.21
TACGCTGAGAAGAGTGGAGGTG	3976	58.21
GGCTACACATTGATGTACGGCTA	275	57.85
CTGCTGATGCTCAAGCTGGTG	688	60.69
GCTAACACCGAATGGCAGAT	267	56.38
GGAGAACATGCCGATTGTGG	429	59.9
CACGATGATTACACCGAATGG	331	57.43
GCCTAGTGCCACTGCTTCCA	715	59.98
GGCAACTTCAGCAGCGTATG	409	58.14
GATGTCGGCTGCTGGAGATG	628	60.34
TCAACACTCCAATCACCAATCACC	78	61.8
AATTGGATAGCAAGGATGCGACA	338	61.55
CCAGTTGAGCAGCTCGTCCA	338	61.09
CCAGTTGAGCAGCTCGTCCA	494	61.09
CGTTCATATCGGAAGATGGTGGA	464	61.8
GGTGAAGATGGAGTCGATCG	94	56.69
GTCGGTTCAGCATCTTCCAG	3636	56.91
GGTACGATTGCTTCGGCGAA	755	61.91
GGTACGATTGCTTCGGCGAA	755	61.91
GCATTCTCTTCACCAGCATGA	514	57.49
TGACAATACAGCCAGCAATCG	100	58.39
GCTGAAGAGGACGAGGTGGT	4733	57.92
GCTGAAGAGGACGAGGTGGT	4733	57.92
GTCCGAATTCAACGATCAACTG	132	58.17
AAGACCTGAAGGACTACGGAATG	823	57.48
TTAATGAGACTGAACCAGATGAATG	272	56.2
AATGTTGCGGCACACTCCTT	59	59.19
ATGCGAACAGAGATGCGAAT	88	56.98

TGAGAGAAGGAACACGAAGAGATG	150	58.64
TTGATTGAGAAGGAATGGTGTAGC	1276	58.32
TGGATAACAAGGAAGGAGAAGTGG	361	59.48
TGGATAACAAGGAAGGAGAAGTGG	559	59.48
TGGATAACAAGGAAGGAGAAGTGG	372	59.48
TGGATAACAAGGAAGGAGAAGTGG	559	59.48
TTCGGACAGCCTAGAGTTGG	621	56.62
TGACGATGACGACGATGAGG	74	59.21
AAGTCCGATCACTATTATCCGAGT	1544	56.2
AAGTCCGATCACTATTATCCGAGT	1207	56.2
AAGACGCTTATCAAGACCTCCA	341	56.76
AAGACGCTTATCAAGACCTCCA	170	56.76
TGATTCTTCAACAAGCTCCGT	1086	56.16
TTGATGAATGGCGTGGATGA	2373	59.44
ACGATGATGCCGAGATGAAG	83	57.29
CGTATTATGTGTGGATATTCGGATG	40	58.27
TTCTTCCGCATAAGGCGAAG	176	59.03
AAGTGTGGATATGATATGGATGATGA	311	57.4
AAGTGTGGATATGATATGGATGATGA	311	57.4
AAGTGTGGATATGATATGGATGATGA	311	57.4
AAGTGTGGATATGATATGGATGATGA	311	57.4
TACGAAGTGATGATGGATACAATAGAAC	268	57.8
CCGATGAAGAGAGGACCGAA	55	58.81
GCTGGACACACTGATTGGATT	637	56.15
GATGTCAAGTACGCTGTTGCG	535	57.12
CAGTCCATCTCGCTCACCAT	776	57.26
TTCGGAAGACTTGATGACC	1495	56.2
AATTGACAATGTGCCAACGA	277	56.08
AATTGACAATGTGCCAACGA	323	56.08
ATGAATCATCCGCTCTCTGG	77	56.32
GCGTATGTGAATGTTGGAGTCC	349	58.05
TTGGAGTATTGCGAGTTGTTGG	3365	58.74
TTGGAGTATTGCGAGTTGTTGG	3365	58.74
GTGGAAGAGGAGGCTACGGT	1935	56.94
TTGGAGTATTGCGAGTTGTTGG	2905	58.74
AGTGCTACGAAGGATTCTGCGA	733	59.99
ACTGGCTGTCGCTGTCGTCT	75	59.63
AATTGAGGCTTCCTTGGTAGG	1704	56.14
GGCTCTTCCACCACCGTCAA	58	61.93
AAGTTGCGAGCCTATTGGATG	427	57.96
GCCTACCGCTTGTGAGAATG	91	57.05
GGCTAATCGGCTGTTGTTGG	1323	59.17
GGCTAATCGGCTGTTGTTGG	1321	59.17
ATGCGTTGAGAGAGGAATCG	36	56.55

TACGTGCTGCACCACTATGG	902	56.84
GGCTCATCGTCATCGTCAAG	749	57.83
GGCTCATCGTCATCGTCAAG	509	57.83
TGTGGACAATCGTCGAGGT	528	57.58
GTGTACTCCGTGCTCACCGT	94	57.25
TCGTCTCGTGAATCCGTTATGC	253	60.93
CCGCCGCCTGTAGATCGTAG	194	61.57
GCGAGCAACTTGAATCCTACG	430	61.85
GATATTCTGGACTTCGAGATGTATCAAC	461	58.61
CGACACTAACGCCTATTCTGAGC	395	59.08
TATAGCGAGACCAAGTGAATGTC	671	58.34
GATGCTCTCGTCGGATTGATC	518	58.29
GCACACCGAAGGAACAATCAC	1357	59.04
GCACACCGAAGGAACAATCAC	1359	59.04
AAGTTGTGAATGCCGAGATGG	168	58.64
GCTCCATCCGACTCTATTGTTG	43	57.44
GCTCCATCCGACTCTATTGTTG	43	57.44
GTCATCTGGCACCCTTCCTA	980	56.32
AATGCCACCGAATATGCGAA	215	59.88
AATGCCACCGAATATGCGAA	215	59.88
AATGGCTGCAGGATGCCAAG	81	61.98
GTACATCACAATCCTATTGCGTCT	136	56.09
CCAGTGACACTGATGACAGGTC	101	56.64
GGAGTCCAGTTGTTGGTCTGTT	453	60.25
CTGAAGACGTGGATTACGGAAG	1154	57.49
TACACTCATTGGAAGCAGACCGT	885	59.64
TACACTCATTGGAAGCAGACCGT	885	59.64
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GGATGGTGTGGAAGTTGAGACG	1604	58.16
GGATGGTGTGGAAGTTGAGACG	1604	58.16
GGATGGTGTGGAAGTTGAGACG	1613	58.16
GGATGGTGTGGAAGTTGAGACG	1613	58.16
GGATGGTGTGGAAGTTGAGACG	1613	58.16
ACAGATGAGTTGAAGGCTATTGAGA	67	57.33
ACAGATGAGTTGAAGGCTATTGAGA	67	57.33
AGAAGTGGTGCCGCTGTGAA	122	60.4
AGAAGTGGTGCCGCTGTGAA	97	60.4
AGAAGTGGTGCCGCTGTGAA	97	60.4
AGAAGTGGTGCCGCTGTGAA	122	60.4
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TGAGAATCTCAGTTCATCGAGTCG	174	59.48
TGAGAATCTCAGTTCATCGAGTCG	178	59.48
TCGCCGAAGAATATGCTCTAGC	131	59.58
ATTGAACAGTAATGGAACGCGAA	342	59.5

ATAGATGATCACAGACGCGAACA	567	58.34
ATTGAACAGTAATGGAACGCGAA	244	59.5
GTCTCAGAACTGCCGCAGT	704	59.1
ATTGGAGGATGCGTTGAAGG	50	58.58
TTGGCGGATGAGTTGGATTC	67	59.46
ACATGCCAATGGAGACGGTT	123	58.86
ACATGCCAATGGAGACGGTT	123	58.86
GAGATTGTCGGTTGATGATGC	725	56.65
ACGAGTTGAAGGCGATTGAG	75	56.62
TCGAGGTGAAGGAATTGGATT	160	57.2
TTCTTCCAGCATTCTGTGGAC	1058	56.44
GGAGGTAGTTCGCCAGTCAA	2927	56.46
TTATGGATATTCTGACTATGACTTGCTG	636	58.03
ACACGGAGTGATGTTGTGGATT	58	57.89
CGTCGTTGGATTGATCGTCTTG	1207	61.34
CGTCGTTGGATTGATCGTCTTG	1229	61.34
CGTCGTTGGATTGATCGTCTTG	1207	61.34
CGTCGTTGGATTGATCGTCTTG	1240	61.34
CGTCGTTGGATTGATCGTCTTG	1240	61.34
ACTGGATGCTCATTGAATCATTG	614	57.68
ACTGGATGCTCATTGAATCATTG	636	57.68
ACTGGATGCTCATTGAATCATTG	614	57.68
AACGAATAATACTGGTGGCGGAT	1260	59.6
ATACGGAGGTACTGAAGGCGGTT	147	60.98
ATACGGAGGTACTGAAGGCGGTT	157	60.98
ATACGGAGGTACTGAAGGCGGTT	60	60.98
GCAATATTCCTGTGTTGATTGTGG	560	59.26
GGCTTCAATGTGGAGACTGTCA	157	58.78
CCTGAAGTCGGAAGATGAGC	178	56.11
CCTGAAGTCGGAAGATGAGC	179	56.11
CAACAAGCTCCTCCGAGAAC	648	56.18
GGATGGAGGATGTTGCTGGA	1335	59.44
CGATGTTGGCGATAGTACGATT	192	57.79
GGATGGAGGATGTTGCTGGA	1341	59.44
GAACGACTGTCTCCACGGTT	174	56.24
CCAGGTGTCAATTCATTCACAG	488	56.65
CGATTCCAAGCAGAACAGCCT	1088	60.33
GCTCAGGTTACACAGGCAA	363	58.45
CGTCTGCACTTATCGAAGGAAC	887	57.63
GGACGCAACTAATGTAACCAGAC	498	56.53
CCGCAGTGAAGTTGATTGGTT	557	58.69
ATTGAGGAGGAAGACGACGAT	87	56.42
AATTGTCAAGACTTGATGCTCA	551	57.48
GAAGGAGAGCAGATTGGTACAGAA	402	57.73

ACCGATAGAGTTGCTGCTTCA	2336	56.35
ACCGATAGAGTTGCTGCTTCA	1029	56.35
CAATCTTGGCCGTGTTGCTC	35	60.21
CAATCTTGGCCGTGTTGCTC	53	60.21
TTGCTGCTGCTCAAGCCTCT	41	60
CGATCTTCATGCGATGTGGTTC	311	61.33
AGTTGGAGACATGTTCTGTCGTG	194	58.71
CGAGACACCACGGAGAGAAG	338	57.04
AGTTGGAGACATGTTCTGTCGTG	39	58.71
CGATCTTCATGCGATGTGGTTC	156	61.33
CTCCACAACATTGCATTGCA	26	57.7
CGTGCTCCACAAGTACAATCC	327	56.82
CGTGCTCCACAAGTACAATCC	53	56.82
CGTGCTCCACAAGTACAATCC	366	56.82
CTCCACCACCAGCACTTGTTGT	122	60.96
TTCAACACAATCGGCGTCAA	37	59.67
GATTGATAATATGAACGAGAGCGAGCT	230	61.09
GATTGATAATATGAACGAGAGCGAGCT	239	61.09
GAACTGCGGTGCGAACACAA	64	61.76
TTGGTGGAATGAGTGATTGGAT	102	57.83
CCTCAATCTATGGTACTGAGAAGGA	131	56.76
TCGGCGTTCAATATTCATGA	626	56.24
TCGGCGTTCAATATTCATGA	626	56.24
GCATTGTCATTGAACGGACTTAC	1448	57.3
TTCGCAATTCCATTGTGGTA	404	56.15
GGAATGTATCACGCTTGCTCA	262	57.45
GAAGGTCACATGGTCACGCT	63	57.16
CCTGTGCCAGGTATATCTCCA	96	56.26
ATCGTGATGACCAGGAGCAT	35	56.55
GGCAGATGCTGAGTATGGCA	73	58.42
CGGAGAATGCTATGAGAACCTT	338	56.29
ATGTCCATCTCTGAGAACATATGCTAA	1008	58.36
AAGAAGCAGATCGACACAGTCTTC	639	57.85
TGATTAGCACGAATCGCTTGGTT	165	61.69
GATGTGGTTCCGCTGCTGGT	122	61.96
CGAGAATAAGACGGTGACAATGG	1722	59.48
CGAGAATAAGACGGTGACAATGG	1591	59.48
ACTTGGAAGACATTTCGATGTGGAA	431	60.67
ACTTGGAAGACATTTCGATGTGGAA	300	60.67
ACTTGGAAGACATTTCGATGTGGAA	431	60.67
ACTTGGAAGACATTTCGATGTGGAA	431	60.67
ACTTGGAAGACATTTCGATGTGGAA	300	60.67
CAGTCCGTGTTCCAGGTGTG	132	58.58
GCATTCTTCTCGGCTTCTGG	42	58.61

ATCAGGCGTCCGTCTACATC	365	56.26
TTATTGACGGAACTCCGCTT	142	56.09
CAGAAGAACCTACAACAACTACTACAGC	233	57.22
TTATTGACGGAACTCCGCTT	24	56.09
CCTGTTGGAGCATCGGTTCT	1876	58.73
CGAAGATTCATGGATGCCGAT	305	60.74
GCGGAACGGATTATCACGGT	1254	60.65
GCTACAGTCACTAGCCTGGTCTTAG	845	56.81
GTCACCTCGGCATACTATTATCCAA	184	59.29
GGAAGTGTGTCGTCAGAGCCAA	1637	57.45
TATCCACAACATCAGCAGCAA	531	56.42
AAGGATGTGTACGAGATGGCA	477	56.75
AATCAGTCTGGATCAACTTGAACCTC	657	57.97
TTGGCATTGACTATTGTCAGATTG	327	57.81
CGATTGTAACCATTGCGCAA	159	58.09
AACCACAGGCACATCCAGCA	557	61.08
GAGATATGTGGCCTCTTCTCGTTG	2182	60.08
TTGGTGATAATCATCCTTGTTGC	32	57.61
TTCCAGTCGCAACCAACAAC	2381	58.2
GCTCTTCGTCCAGTGATGATG	2005	56.93
GAATCCACGTGTACACCTGATG	109	56.52
GCTGTAAGCAGAATTGATATTGTTG	119	56.1
ACAGTTGCGAATCACGTTCTG	60	57.49
CCAACTCTGCTCGATCTGCCT	36	60.48
CTGATAATTGAATTAGTGGAATTGC	368	57.59
ACTTGGTGACGGAGAACGAC	436	56.24
ACTTGGTGACGGAGAACGAC	446	56.24
TTGCACAATCTTCTCTTGTTAGCTC	1094	57.98
GATCGCAGAGAGACGCGAATC	64	60.96
GATCGCAGAGAGACGCGAATC	64	60.96
TTGCACAATCTTCTCTTGTTAGCTC	681	57.98
CTTCATCATTCGGAGCTATTACTTG	241	57.33
CGTCAACGAAGGATGCTCAA	1763	58.45
GCTCGGCTGTTCCAGTCACT	70	59.04
GTGGAATGAGGCACAAGTCACG	351	61.42
GAGCATACGCAGCACAGACAA	100	58.69
ATGGAGCAATGGAAGCAAGC	566	58.87
ATGAGTGATAACGACGACAACG	70	56.4
TGGCAAGACTTACAACATTACCAA	25	57.45
ACGGTTGTGGAGTTATGTGCCT	60	59.39
TCGATTCCGGTTGAGAGTGC	74	59.77
TCGATTCCGGTTGAGAGTGC	622	59.77
GAGGAGTTCGGTATCGTCATCA	691	57.74
ATCTACCTCTGAATGCCGCAA	94	58.41

TGCTTGATATGCCAGTGGAGAT	50	58.28
GTCGCCTACTACACCATCCAGA	99	57.82
GTCGCCTACTACACCATCCAGA	115	57.82
GTCGCCTACTACACCATCCAGA	28	57.82
GTCGCCTACTACACCATCCAGA	79	57.82
TATGTATGAATCAACGAAGGCTGT	238	56.59
TCGGAGGATGTATTGCCAGA	46	61.4
TCGGAGGATGTATTGCCAGA	46	61.4
GCGAGCGGAATTGATATGTCTAG	263	58.9
AAGCAGTAGTAGCAGTGTTATGAGCA	310	57.69
GATCTCCGTCAACATCACAGG	3774	56.61
GCTCATGCATAGTTCCACCAAT	300	57.69
TCTGTGTGACAATGGCTCGT	1208	56.21
TCTGTGTGACAATGGCTCGT	1179	56.21
AGAAGACGAGGCTCCAGCTT	34	56.96
TTCTGATGGCCAATAATACTTCG	87	57.01
AAGGAAGGAAGCGGAGTTGT	653	56.62
TTCTATCTACTCCAATTCTCATTGCTTC	683	58.55
CTACAAGGAGTGCGGTCTGC	124	57.16
GATTATGTGCGGTTCTGATTC	102	57.18
TAGTGGTTATTGTATCTCAGACTGGTTC	362	57.2
AATGGAATATGGATTATGTGGTAGTAAG	215	56.21
GATAATGAGATGATGGAAGAGGAGA	470	56.62
GATAATGAGATGATGGAAGAGGAGA	337	56.62
GATAATGAGATGATGGAAGAGGAGA	158	56.62
TGTTGCTACAAGCACATCTG	317	56.24
GTGTGTCTACGTTGACGACGAC	190	56.85
GGAGGAGCAGGAGAGAAGGC	629	59.11
GGAGGAGCAGGAGAGAAGGC	630	59.11
GGAGGAGCAGGAGAGAAGGC	629	59.11
GGAGGAGCAGGAGAGAAGGC	269	59.11
GGAGGAGCAGGAGAGAAGGC	630	59.11
GGAGGAGCAGGAGAGAAGGC	610	59.11
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ATCGTAGAACCTCCACCACCA	423	57.97
ATGCTGTGCTCAGTGGAGTTCT	639	57.68
AACCGACACTCTGATAATGGCT	120	56.49
AACCGACACTCTGATAATGGCT	176	56.49
AACATGGACGGAGAACTAAGCG	799	59.26
TTGTGTGGATGGATGGTGGA	1350	59.16
AGCATAGCATACCACGCCTT	75	56.15
GAGAGGAATAACGGAGCGAGT	73	56.3
GCTGCGAGAAGGATCTCATC	408	56.19
ATATCATAGATTGCGTACCGTTATTGG	399	59.47

ATATCATAGATTGCGTACCGTTATTGG	399	59.47
TGTGGAAGGAGCATAGAAGGTT	388	56.61
AATGTGATGTTGGAGCGGAGA	260	59.13
AATTCTGGAATTGTGGCCTACA	463	57.24
ACCTCTTCCAGGCCAGCGAT	168	61.95
CCATTACGCAAGCGAATCCT	170	58.79
ACCTCTTCCAGGCCAGCGAT	52	61.95
CAATGGAGGAGGCTGAATGG	576	59.07
AACAATATCGGTGACATTACAGAATC	190	56.46
GTGGCGTCGGTGGAAGAATC	575	61.36
GATATTCGTCGCAATTCGCA	140	58.33
AATCAACCATAAGCAGACACTCAA	137	56.66
AATCAACCATAAGCAGACACTCAA	381	56.66
GAGCCACCGAACACAGATTG	505	57.74
GATATTCGTCGCAATTCGCA	58	58.33
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GGATAAGAATGCTGTTAGCGAGA	1099	56.55
GGATAAGAATGCTGTTAGCGAGA	1220	56.55
GGATAAGAATGCTGTTAGCGAGA	1241	56.55
GGATAAGAATGCTGTTAGCGAGA	1241	56.55
GGATAAGAATGCTGTTAGCGAGA	1370	56.55
GGATAAGAATGCTGTTAGCGAGA	1369	56.55
GGATAAGAATGCTGTTAGCGAGA	1201	56.55
GGATAAGAATGCTGTTAGCGAGA	1274	56.55
GGATAAGAATGCTGTTAGCGAGA	1372	56.55
GGATAAGAATGCTGTTAGCGAGA	1372	56.55
GGATAAGAATGCTGTTAGCGAGA	1372	56.55
CAATTCGACAGATGAATCAAGC	968	56.08
CTCAAGAATATGGCTAATCATCACG	663	57.95
CTCAAGAATATGGCTAATCATCACG	767	57.95
CGAATGTTGACGTACCTCACTGC	645	60.53
GGAGGATGAATGTTGAAGCG	438	56.8
GCTTCGCACACACCACACTC	552	58.9
AATGGAGTGAATAGGAGTAGTTCGTATG	1561	58.3
ACGTGTCGAGCAGCAGACTG	446	58.79
ACGTGTCGAGCAGCAGACTG	446	58.79
GGTGATGATGGAATGAGGAGAT	851	56.46
GGTGATGATGGAATGAGGAGAT	860	56.46
CGTGGATTGTGAGGATATGGAG	1056	58
TATTCCAGCGGTCCACTTGT	573	56.74
TATTCCAGCGGTCCACTTGT	573	56.74
TATTCCAGCGGTCCACTTGT	372	56.74
TATTCCAGCGGTCCACTTGT	573	56.74
TATTCCAGCGGTCCACTTGT	146	56.74

TATTCAGCGGTCCACTTGT	146	56.74
GTTCGCCACTAGCACCTCTTCA	285	60.38
GTTCGCCACTAGCACCTCTTCA	280	60.38
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AGCGAGGAAGAAGCGTGGAG	670	60.6
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AACCGCTCCAACCACTGTCT	64	58.25
AACCGCTCCAACCACTGTCT	113	58.25
AACCGCTCCAACCACTGTCT	64	58.25
ATGGTGATATGGCAGAGTTCTG	310	56.25
GGTGAACGGATTGGTGATGA	678	57.78
ATCTGTTGCCATCACTGTTCTG	2233	57.27
CCGAATCTGGAATGGACGAC	236	58.93
ATTCCACCACAACAGCAGCA	285	58.73
ATTCCACCACAACAGCAGCA	62	58.73
GCCTGTGTAAGTACGAGATGA	613	56.55
GCCTGTGTAAGTACGAGATGA	568	56.55
CATGCTCTCGAGGCTGGAAT	366	58.98
AATGGACGACACTGTTAGGAGAC	660	56.01
CGGCGGAGAGAGCATCTATG	238	59.52
GGAACATATCGGCACTTGATG	141	56.65
AAGAATGCAGCAGAATCGACGA	34	60.83
CCTCTGTGGATGGCTGAAGT	278	56.33
CGTTACAGAATGTTGTCTCACACC	476	57.34
CGTTACAGAATGTTGTCTCACACC	191	57.34
AAGAATTGGCAATGGATCGA	46	56.69
GCTTCGACGGCTCATATTCTAG	1240	56.96
ACACTGGATTACGGAGTCG	164	57.16
ACACTGGATTACGGAGTCG	164	57.16
CACACAATCAACAAGCTGATCTCA	639	58.89
GCGATGAATATCTTGACTGC	287	56.03
GGTGGAATCGAGGAAGGATG	387	57.97
AATTGTGCAGTGAAGTTCTAGATG	373	57.62
GATTGTGTTGGCGTTGTATCC	636	56.55
GAAGCTGTCGGTCGAGGATA	464	56.55
CGTCCGCCAGTATCAAGAGA	212	57.51
AATGAGCAACTATCCGAAGAGAA	381	56.03
CCACCTCGTCCACAACCACT	179	59.43
CCGATGAGGAGAAGCATAAGC	3928	57.65
CCATCACCTTCACCTTCAACA	1586	57.09
GTGGATTTCGAGGACGAGGAC	862	61.7
GGCTCGTACTGAGGCTGACA	151	57.64
CACAATGGCAGACTATGATGACG	45	59.11
GGCATTCAACGGTTCCTCAG	243	59.12

GCACCATCCAACAGAATAGTCC	1241	57.15
GGTGGTCCTGGACCTGATGG	437	61.12
GTTAGGCTGTTCAATTGCTCATG	646	57.58
TCTCCGATGAATCTGCTGCT	84	57.16
TGGACACCAGGTTGATGGAA	268	58.34
AGCGGCTCAGGCTATTGCTG	487	61.48
CTTGGTATGTGGTTGGCGTGT	316	59.36
GAGCGGCGAGAAGAAGGATG	459	60.93
TCTCGGCGTGTCTTGGTGTT	1071	60.26
TCTCGGCGTGTCTTGGTGTT	963	60.26
CACTGCTCTTCATTCCACAACC	2354	58.3
TTGTGGCTGTACTTGC GTTGC	1350	60.81
CACTGCTCTTCATTCCACAACC	2354	58.3
GAAGGAGAGTTGCCGCTGTA	1109	56.77
TCTACAGCCACACACACAGGA	483	56.31
ATGACCAACGAACGACGATT	104	56.58
TGACGGTGTCTACGATATGTTCC	191	57.62
TGACGGTGTCTACGATATGTTCC	191	57.62
TGACGGTGTCTACGATATGTTCC	175	57.62
TGACGGTGTCTACGATATGTTCC	127	57.62
TGACGGTGTCTACGATATGTTCC	127	57.62
GGAGACGCAGAGAACCGAAG	337	58.61
AAGGAGCAAGAGGTGAAGATGG	616	58.46
AAGGAGCAAGAGGTGAAGATGG	401	58.46
AGAATACTGTCAACGATGCCGAGT	154	60.02
TTCGGAGGTGTCACTGTTGC	755	58.29
GGCGAAGGAATTGAAGAAGGA	1522	59.25
GGAAGAGGAGAGGAAGCGGAA	538	60.74
GCTCTCACAGTTGGTTAGGCTT	3618	56.44
GCTCTCACAGTTGGTTAGGCTT	1692	56.44
GCTCTCACAGTTGGTTAGGCTT	2088	56.44
GCTCTCACAGTTGGTTAGGCTT	2745	56.44
GCTCTCACAGTTGGTTAGGCTT	3762	56.44
GCGAAGGATGTGGAGATGACG	441	61.5
GCGAAGGATGTGGAGATGACG	558	61.5
CGTTCGGTGGAATTCAGCTC	1204	59.26
CGTTCGGTGGAATTCAGCTC	288	59.26
CGTTCGGTGGAATTCAGCTC	819	59.26
GGCGGCAATTCGAATTATCG	200	61.18
GGCCAGTTATCCAGTTCGATC	137	57.22
AATTCGCTGATTAGACCTGAA	380	56.66
TCGTTGAGGCTGAAGATACCA	217	57.03
CCACGATTGCACGGATAATGG	32	61.9
AACTCATTAGCCATCACTTATCCG	514	57.48

CCACGAATCGGTTAATTGCT	1797	56.36
CAGGACAGCTCTCAGACCGA	1041	57.69
TCCAGTTAGCAGAAGCCGTT	859	56.34
ATGCGGCAGATTCCTATGTC	489	56.32
TGTCAGTGCGATCTCCTTCC	1228	57.39
TGCTGTATCCGGA CTGAACA	1138	56.28
GTTCAGTGCCTACGCCTCAC	1036	57
ATAACTTCAGACTGGTCACCGACA	1008	58.69
GCAGCCAATCTTCACCACT	2246	58.8
CGAATACAATGTCCTATTACCAAGC	626	57.06
CGCAGTTCGCCAGTATCCAT	1288	59.68
GGATGGTACGATGGTTCAGG	274	56.36
TTGATAGGAAGTCTTACTGTGATGGA	269	57.17
TGTGCATGCTCTCCGACACT	48	59
TGAATCGTCTCTGGCATCCG	264	60.71
GCCAATGACCTCCTCCTTCT	38	56.84
TGAAGTGAGCAGATCCGTTGA	92	58.03
TGAAGATGCTCGTATGCCAA	114	56.5
CAGAAGTTGGCAATGAAGATCAGAA	1031	60.54
TGTGTTCAGGCGAGTTAAGGCA	1015	61.61
GGCGGAGGCAATAATGGAAT	909	59.71
AACAACAGCCGCCGACACTT	1419	61.55
ATGCTGGAACCGAAGGAAGA	1950	58.32
AGTTGACGAGACAGTTGATGGAG	363	57.07
AATGTTCTCACCCTGTCC	26	58.59
AATGTTCTCACCCTGTCC	51	58.59
AATGACACCTCCACAGACTACCTG	681	58.2
TCTACATTGCTGGATACGTCGTG	84	58.78
AAGGTTCTCTGCTGTATCGCTGT	134	58.24
GGAATCATCACGCACAGGCT	942	59.66
TTGGAGTACTGTCCGAGATGTCA	286	58.32
AATGAGCAGCAGCGAGGATA	76	57.29
TTCTTCGTGCTCATCTCTCGTC	183	61.52
GGATGAGCAGACGCAGACAG	455	58.14
CCGAGGATGTTGATGGAGAG	825	56.69
CCGAGGATGTTGATGGAGAG	833	56.69
CGCCGTCTCTGTCACTATGG	148	57.92
CGCCGTCTCTGTCACTATGG	156	57.92
CCGAGGATGTTGATGGAGAG	362	56.69
CAAGGAGTGCTTCGATAAGTTGA	295	57.33
GCGAGGAGAACGAGATAACCT	140	56.3
AATGGCAGATGGAGATAGCG	102	56.48
GTCATCGGACTCGTCGGTTA	940	57.2
TAACAAGTGTATGCTGGAATTGGAG	1033	58.31

TTCCTATCGCTTCTTCTCCTTCT	50	56.7
AAGGAGACTTCATTGCTATCAAGGAATC	2230	61.26
AGGCTAATGGCGGAACTGGT	892	59.56
ATGACCGCTTATCACCACGAG	124	58.67
TTCTGATCTTGTTAAGAGTCACTCAATG	3555	58.21
GTTGGCTGGCTCAATTGCAC	54	60.22
GGTGCTCCGCTTCATCATTG	496	60.18
ATTGCCGACACCATCAGTTG	308	58.02
ATTGCCGACACCATCAGTTG	286	58.02
AAGAAGCACTCATTGGAGCAGA	1438	57.82
TTACCTTCCATTGCTCACATATGTG	753	58.96
AATGTCTTCTCCATGAGTATGCACAGA	84	61.13
GGTCAAGCTGCGTATCTGAAC	834	56.19
CGTTAGCCATATTGCCGACA	86	58.26
CGTTAGCCATATTGCCGACA	43	58.26
TCAGAGCCGAGTGAATTACAGC	487	58.22
TTCCAACCAGAATAGACAACCTCG	571	57.06
TTCCAACCAGAATAGACAACCTCG	622	57.06
AATCACCATCAGATCTGTCTGGATTC	464	60.51
AATCACCATCAGATCTGTCTGGATTC	541	60.51
ACGGACTCAACAATAATGGAATCAC	430	59.17
CCAAGATATGATTAGAAGTGCGAA	558	56.4
TTACGACAGACGCCAAGCAG	89	58.67
CCTTCCAGTGTC AACGGCTT	130	58.78
CTGGACACTGTGAAGCCGAA	355	58.45
CGGTGACCATCGTCGAGACT	197	59.69
TGGACAGCGAAGCAAGCAAT	37	60.49
CTGAACGAGCAATGAGAGCA	254	56.31
CTGAACGAGCAATGAGAGCA	254	56.31
CTGAACGAGCAATGAGAGCA	254	56.31
AATGGAAGAGTTGCTGCTGAA	1661	56.32
AATGGAAGAGTTGCTGCTGAA	1661	56.32
AACTACGAAGCCATCACCCTG	461	57.87
AACTACGAAGCCATCACCCTG	461	57.87
TTACAGTCTCAATGGCACCTTG	720	56.52
TGAGAGCCTGTCGTTCACTGA	44	58.18
CAATTGGCGCAATCTGAGAA	561	58.45
TGTTGAGAGGAACCAGGTGCCT	348	61.86
TTGGATATGGAGCACCTCCA	26	57.55
CTGTATTCAGATTGCAGGAGAGC	215	56.91
GGAACGTATCAATTATTGGATGG	702	56.16
CATCCTGTTGAATCGGTGCT	679	57.2
CCGTGCTCATTGCCACAGAC	1148	61.22
ACAAGTTGATTATTGATAATCACACTGA	218	56.29

ACAAGTTGATTATTGATAATCACACTGA	218	56.29
ACAAGTTGATTATTGATAATCACACTGA	291	56.29
GCCTGCTGATTGAATGCTCT	621	56.7
ATGAGATCCGCCTGTGAAGA	293	56.85
ATCCAATGCGTCGTCTTCTG	76	57.35
GGCTAATCGTTACCACGTGGA	27	58.57
GTGGTGGTGGTGGATTCCGT	397	61.42
GTGGTGGTGGTGGATTCCGT	397	61.42
CAATGCCTGTAGATGCCGAGA	34	59.81
TTCCACCAACCATCAACCAG	316	57.84
CAGTCCGCTAGACAAGCCTTC	358	57.83
TGTTGCTCTCGTCGATGTCA	710	57.49
CAAGAAGTGGACGGAGCTTACGA	479	61.53
GGTGTCTCTGTGTGTGCTTGG	325	57.79
CAGTCAGTCAGTCAGCCACCA	31	58.46
TTGCTCCAGTTGTGCTCTCC	799	57.61
TTGCTCCAGTTGTGCTCTCC	820	57.61
TTGCTCCAGTTGTGCTCTCC	829	57.61
TTGCTCCAGTTGTGCTCTCC	668	57.61
TTGCTCCAGTTGTGCTCTCC	729	57.61
AGCAGGAGGCAACGATGGAT	798	60.56
GGTTGTCATCCTCACTTCGC	686	56.75
GGTTGTCATCCTCACTTCGC	680	56.75
CGAGTTATGCTGTGATATGATCG	760	56.14
AATGTTGAGCGACACCTGACAA	967	59.23
CTCGGAGGATTCAATGATCG	1378	56.74
GTCCACCTACAACGCAGCAT	376	57.29
TCAGGACTGCTATACTGCGTTG	389	56.85
CTCGACTTCAAGTTCACAATCAAC	142	56.73
CATCGTCGTCACCGCAGAAC	62	61.22
GGAGGTTATGCTTGCGGACA	1634	59.66
TCCTTCTTCTCTGCCTTCTTGTG	48	58.76
ATCGGCACTCGTATGTTCTG	469	56.77
GAACATTCACTCGGTCCAAGA	140	56.28
GCCAGCCGTACAGAATGATAACAAC	733	61.75
GCCAGCCGTACAGAATGATAACAAC	751	61.75
GCCAGCCGTACAGAATGATAACAAC	745	61.75
GCCAGCCGTACAGAATGATAACAAC	741	61.75
CTCCAGCAGCACTTCTCATCG	917	59.72
CTCCAGCAGCACTTCTCATCG	935	59.72
CTCCAGCAGCACTTCTCATCG	929	59.72
GGATGATCGGAGAGATCGCAA	908	61.02
GGATGATCGGAGAGATCGCAA	531	61.02
CCTCTCGGAGTAATCTGGAATATCC	523	59.36

TGGATAATCGTCTTGATAATGAAGCAGA	320	61.98
TCAGAAGATGGATGGAAGGTCA	433	58.18
CCAACGACCACACCAAGAAC	251	57.48
AAGGAACGATGCGACAGTGG	924	59.69
AAGGAACGATGCGACAGTGG	967	59.69
CATCAGTAGCTGACTGCTTGGAG	85	57.91
GCTGGATGGTACACTTCGTATCG	107	59.51
AAGTGGTTGATACGCTGGATCG	1049	59.97
CCGTCACTTAGCACCAGAGAA	495	56.7
AAGAAGTTGTGGAGATTGAAGTGAA	895	57.23
GACATTGTTCTCAATATCAACATGATTC	386	58.03
GTTAATCGGTTGGCGGTGGT	467	60.55
ACTGGTCGCCGACTTGGAAG	136	61.14
TTGCTATTGGTTGCCTTCGTC	525	58.82
CCAACGTGACAGTCCTGATG	876	56.05
CCTATAATCGCAGGATATTGCTCTG	433	59.19
CCTATAATCGCAGGATATTGCTCTG	433	59.19
TCTCGCAGGACATTGTGAAGG	239	59.82
GATTGAGGTGTTGCCGAAGT	931	56.3
AAGGAGGTTGCGGACAATACTAAG	702	58.78
ATTGTGAACGCGGTGGTGT	872	59.86
GAGCACTTCCTTCGTCCAAC	2295	56.01
ACCGAAGACAATTCGTTTCGTATG	115	59.04
TCAATGATATCAATGAGTTCTACGATCA	113	58.99
CTCAATACGCAATGTACGAAGCATAAC	1497	59.92
CTCAATACGCAATGTACGAAGCATAAC	1726	59.92
CTCAATACGCAATGTACGAAGCATAAC	1488	59.92
GAGGCATTTCGATCAGCTTCACA	245	61.21
CATTGACGCCGACAAGACAA	430	59.28
AATTCTCTGGTCTATCCGAGTCC	71	56.57
CGGAAGAACTGCTCTATCTGAAC	232	56.11
GCTATGCCTGTCTACCAGAGTGT	38	56.34
TTGGAAGAGACGCTGGATGG	1884	59.77
TTGGAAGAGACGCTGGATGG	300	59.77
TTGGAAGAGACGCTGGATGG	1882	59.77
AGTAGACTGATTATTGACACGGCTTA	164	56.57
GAAGTGCCAGAATCCGACAA	2531	57.32
TTGACACTTAGGCAGTGGATTCC	1148	59.12
TTGACACTTAGGCAGTGGATTCC	797	59.12
CGTCAGGCGGTAAGGAAGACT	141	59.36
CGAACATTCATAGATCATTCTAGCAGT	600	58.09
TGCTCAACGAGTTAGAAGGACA	143	56.4
TTGTGAGGATGATGTGCTACGTTA	265	58.32
TTGTGAGGATGATGTGCTACGTTA	265	58.32

TTGATCATGGAGCACGTGCT	635	58.83
ATTAGACGGCTGCTGCGACA	288	60.51
ATTAGACGGCTGCTGCGACA	345	60.51
AGGATATTCTCTCTCGTCATGCCAT	1858	61.34
CGAACTACAAGCGAGTAATGTGAAG	1499	58.28
CGAACTACAAGCGAGTAATGTGAAG	1489	58.28
TCTTGCTGGTGGAGGTATTGTTG	242	59.98
GCAATGGATTATGTCAACACCTG	608	57.98
GCAATGGATTATGTCAACACCTG	975	57.98
GCAATGGATTATGTCAACACCTG	608	57.98
GCAATGGATTATGTCAACACCTG	975	57.98
AGAAGTCAGCAGATCATATTGTAGAACT	1817	56.38
GACTTCCGATTCCTTGGCTCA	1720	60.15
TCATATTGACAATAAGAACTATGCTGTC	338	56.14
CACTACGATTGCATTATCCTTGG	109	57.36
ATGCTTCTCTTGCGCAGATG	75	57.81
GATTAAGGAAGTCTGGATTACAATATCG	171	57.89
TTGAGGACTACCGAATGACTCAT	108	56.48
TGTTGGTATGTCAGGCACTGTTCA	106	61.28
AAGGAACTTGCGACGTCCGTT	333	61.81
GAAGAGGTTCAATGACTTGCTGA	758	57.22
GGTCGTGTCTTCATCTCATCTCTT	27	57.52
CGTAGATGATGATGCCGAAGA	1577	57.4
CGCTATTCTCCACCGACATTG	201	59.18
CCGAACTAGCAAGACCACCA	760	57.41
CCGAACTAGCAAGACCACCA	843	57.41
TGATTGTCTCATCTCAGTCACACTT	318	56.64
AATTGAGGCTTCCGATGGAA	1586	58.18
AATTGAGGCTTCCGATGGAA	1615	58.18
AATTGAGGCTTCCGATGGAA	1667	58.18
AATTGAGGCTTCCGATGGAA	1592	58.18
AATTGAGGCTTCCGATGGAA	1621	58.18
AATTGAGGCTTCCGATGGAA	1673	58.18
GGACAGAATGTCGGCGGATAC	559	60.29
AACTGACAAGGATTATGGAAGCA	222	56.59
AACTGACAAGGATTATGGAAGCA	259	56.59
AGACGAATCAATGTATGTGACAAGGC	401	61.34
TTGTCTATCTGCTCTATCGCAAGTG	181	58.77
GGCATAATAACTCTACCGATTACATTG	244	57.47
GGCATAATAACTCTACCGATTACATTG	252	57.47
TCCGTAAGAAGTCGCTGGTC	6969	56.62
AATTGCTATCGACGACGACAAGT	1142	58.83
AATTGCTATCGACGACGACAAGT	1194	58.83
AGAGAGAAGAATAAGAAGCACACCACA	62	60.87

TACTGCACTCGTCGAATGCC	48	58.47
GCAACATCAAGTTCCAGGCA	53	58.3
TGTTTCATGCAACCTCTTGTCG	23	58.36
CGGAGGATGTGGCTGTGGAT	133	61.79
AACCTACCGTGCAAGTGCCA	334	60.13
TAACTGCCTAAGACCGCCAA	1321	57.14
TAACTGCCTAAGACCGCCAA	1321	57.14
ATGTATTGATTGCGGTGTTGG	127	56.98
CAATGAGACAGTGCGACAATG	615	56.37
GGCAGAAGTGTTAGTTGATGAGC	227	56.82
GGCAGAAGTGTTAGTTGATGAGC	202	56.82
CGTTCAATGGTGGCTCGTTA	1491	58.23
CGTTCAATGGTGGCTCGTTA	1491	58.23
GCCACTCCATTCAACGCTTA	329	57.44
CGACGAGGATGAGGACAAGA	322	57.39
AGCACATGAAGTCGTTGAAGG	234	56.54
AGCACATGAAGTCGTTGAAGG	276	56.54
GTACAAGAGCAGATTCCTCGTGT	854	56.31
TCTACTGGAACCGGTGAACG	785	57.26
TCTACTGGAACCGGTGAACG	761	57.26
TCTACTGGAACCGGTGAACG	785	57.26
TCTACTGGAACCGGTGAACG	761	57.26
TTCACGCACATAACGCTTCTC	160	57.66
CGACGGACTTCTCCAATCTTC	47	57.46
GTATGGAGCACTGAGAGATCGTGA	722	59.38
GTATGGAGCACTGAGAGATCGTGA	377	59.38
GTAGCGGCGGTGAAGGAGAC	155	60.73
GTAGCGGCGGTGAAGGAGAC	305	60.73
GTAGCGGCGGTGAAGGAGAC	71	60.73
AAGGTGGATCATGAGATGTGC	156	56.08
AAGGTGGATCATGAGATGTGC	156	56.08
ATATAGCAGATATTATGATCAGACGGAT	140	56.03
CATTGGAAGCATACAGTTGATTACAC	378	57.8
TTCATATACTACTTCAAGCCTGTATGG	139	56.16
TTCATATACTACTTCAAGCCTGTATGG	114	56.16
TTGGAACAAGGAGTTGTGCTG	279	57.46
ATGATCTGTGCTTACTGGTGGAT	265	56.36
ATGGTCGCCTTGATGTATGGATT	319	60.38
CCGATGTGTGCTCCAGAACC	56	60.08
ACGTGGTCGGAATCCTATCG	78	58.47
TTGTAACTCAATTCTACTCACACTGTC	380	56.2
AATTGCGAATTACAGTAGATGATGC	888	57.56
CAGGCAACACAACGACCGACT	1027	62
ATCGGCTTCTTCTGTCTGGA	1319	56.11

CCAATGCATGCGTCAACACT	116	59.16
CCAATGCATGCGTCAACACT	188	59.16
CCAATGCATGCGTCAACACT	68	59.16
TGTCTACACAGTATAGAGAGGTTGCTAA	1070	56.08
TGGAGGAAGGAGAGATTGAGACAC	1366	59.71
TGGAGGAAGGAGAGATTGAGACAC	1504	59.71
GTA CTCTCTAGCAGTATCAACAGA	779	56.24
AATGCTATGAGGCGTGGAAC	985	56.38
AATGCTATGAGGCGTGGAAC	985	56.38
AATGCTATGAGGCGTGGAAC	566	56.38
TACGATGAGTATGAACTATGCGATGC	1486	60.32
GGATGTTGAGATGAGAGATGCTG	2299	57.49
GGATGTTGAGATGAGAGATGCTG	1959	57.49
GGATGTTGAGATGAGAGATGCTG	1959	57.49
ATGTTGGATACCTACGGATTCTG	529	56.66
AACACAGGCGAACTGTCAATCTC	69	59.27
TTGACGATGAATGGACGGATG	558	60.28
TTGACGATGAATGGACGGATG	410	60.28
TTGACGATGAATGGACGGATG	410	60.28
GGAACCACTGCTTGAGAACCTT	193	58.37
ACTGTATCACTGTTCCACATCAACCATT	920	61.76
TTGACGATGAATGGACGGATG	388	60.28
TTGACGATGAATGGACGGATG	38	60.28
AACCGCTCTTCTTGGCATTACG	65	61.36
CCTTGAGACGCAGACACTTGT	75	56.65
CGTGACGAGATAGTGTGGAGGA	198	58.81
GGTGGACTGTTAGAGTTGGAAGAAC	88	58.31
AATAACATATTGGTGATGATTCAGTGTG	713	58.31
ATACTGGATGGAATGCGTGCTC	264	59.94
GCAATTGATGGATATGATACTACAGAGG	241	59.25
GATGAGGCAGTTACATTGAATATACACG	790	60.01
CCACTCAGCCAGCCATTACGA	1240	62
CGAGACAGCGAGAACTGACAA	2807	57.84
GCAGTGACGCTTGTGACGAG	230	59.2
CGCTTCTCTCGTCAATTCAGC	3061	58.81
CGCTTCTCTCGTCAATTCAGC	2120	58.81
CGCTTCTCTCGTCAATTCAGC	1075	58.81
CGCTTCTCTCGTCAATTCAGC	2989	58.81
CGCTTCTCTCGTCAATTCAGC	3136	58.81
CGCTTCTCTCGTCAATTCAGC	2995	58.81
CGATTCTTCAGGTTCACTCAGG	198	57.53
AATGCTGCGTTGATGAGAAGA	1584	57.18
GACTCCACCACCAACACGCT	883	59.59
GGTCCAACAGTGAAGAATGCC	84	58.09

GGCGAGGAGACAGACCGTAT	1142	57.81
GGCGAGGAGACAGACCGTAT	863	57.81
AGTTGGTGGATAGGAGGAATGG	2680	57.95
CCAGAAGAACCGTGATACCGT	355	57.66
GCACAGGCTCCACACAATCC	399	60.09
GAGAGGATACTCCGCTAACGAA	238	56.43
ATCTATCTCATCTTCTACATCACCGA	247	56.33
CGGAGCTGGATCTTCTGGATC	85	59.75
GCATTATGAGACGAGAACACACA	328	56.53
CATCATCTGGAACAATAACAATGCTAA	199	59.34
AGCTATAGAGATGATCGGAACAGG	390	56.85
GATTGGTTGTGAGGCGAGAC	175	56.75
AAGACTATCACAAGCGGTTATGG	1235	56.23
GCAAGCATCTCGGAATGAAGG	591	60.65
GCAAGCATCTCGGAATGAAGG	591	60.65
GCAAGCATCTCGGAATGAAGG	388	60.65
GATGAGAATAAGATTGGCAAGGAT	263	56.59
GAATGGAATGGCTCACAGATG	796	56.66
TTCGGCACTTCTTGACCACA	49	58.85
TACAGGAGGCGGACAAGACG	277	59.83
CGAGCCGTACACCGAGTTCT	228	58.95
CCTACCAGGAATATTGTCCAAGA	57	56
GTGCCACACGAGTATTCAGTTG	478	56.89
GTGCCACACGAGTATTCAGTTG	478	56.89
AATGTTATGTGGCGAGAGAGAGA	985	56.77
TGTGTTAGAGACTTATCAGCCGAGA	322	58.29
TGTGTTAGAGACTTATCAGCCGAGA	63	58.29
GATCCATTCAAGACACCACAGA	754	56.14
GATCCATTCAAGACACCACAGA	773	56.14
CGAAGCGTAAGAGCACAACA	48	56.39
GGACCTGCCATAAGTGCCTCT	2640	59.19
GGACCTGCCATAAGTGCCTCT	2682	59.19
GGACCTGCCATAAGTGCCTCT	2511	59.19
GGCACCTACCACGACGACAA	972	60.52
AAGTGCATTGGATGCCAGAA	51	57.76
GGCACCTACCACGACGACAA	65	60.52
CGGCGGATCGAGATGTCTATG	1672	61.42
AATCAACTAATAAGCAATCAACGAATG	147	57.96
CCGAGCACACAACGAGGAGA	1124	60.95
CCGAGCACACAACGAGGAGA	412	60.95
CGGACGAGGAAGACACTGAG	57	57.04
CGGACGAGGAAGACACTGAG	108	57.04
CGGACGAGGAAGACACTGAG	57	57.04
CGGACGAGGAAGACACTGAG	108	57.04

AAGGACGACGAATTGCTGCA	294	60.35
AAGGACGACGAATTGCTGCA	122	60.35
GTGGTCTTCTTCGCTGTTCTG	740	57.13
AGTCGGATTGCCTAGCGTTC	1223	58.03
CGGAAGAGGCGATTGAGGTT	1023	60.15
AACGGTTCTATCGATTAGTTGCGTGT	45	61.99
GTCCTCCTCCTCTACGCCACA	93	60.21
CTTCGACCTGGCAGCTATTCC	815	59.81
TCAAGTGGATGCCACAGAATG	1075	58.16
TCAAGTGGATGCCACAGAATG	1075	58.16
GAATAAGAAGGATGAATACGAGCAG	720	56.55
GAATAAGAAGGATGAATACGAGCAG	399	56.55
CATGGAGCAAGTGCAGTTACTGC	738	60.78
AACACTGCGATTGGTGGAACTC	255	59.99
AACACTGCGATTGGTGGAACTC	255	59.99
AACACTGCGATTGGTGGAACTC	384	59.99
GCTTCAAGCAGTTCTCATCTCG	143	57.96
AAGGACGCATGAGACGGATA	262	56.83
AAGGACGCATGAGACGGATA	562	56.83
CGGATGTTGGAATGGAGACT	246	56.07
CGGATGTTGGAATGGAGACT	413	56.07
CGGATGTTGGAATGGAGACT	275	56.07
AAGTGAAGAAGTCAATCAGTCG	392	56.28
AAGTGAAGAAGTCAATCAGTCG	145	56.28
ATTCTATGTGCCTGGTGTGGA	213	56.6
CGAACTGGAATGAAGGAAGGA	1038	57.84
AGCCGAACATCTCCATCGAT	157	58.15
GTGCCGACCTACGAACAAGC	203	59.33
GTGCCGACCTACGAACAAGC	135	59.33
GCGTTGACGATGAGGAAGAG	800	57.07
GCGTTGACGATGAGGAAGAG	210	57.07
CGATTATGATGGTATTGATGCTGT	620	56.78
GCCACGACGAGACTATTCCG	1007	59.29
AAGTTGTGTTTCGGTGCTCCA	840	57.79
AAGTTGTGTTTCGGTGCTCCA	861	57.79
CGTAATGTGCTGTACCGCCTT	775	58.78
GCACAGGCTATGGAACGAGA	456	57.51
GCACAGGCTATGGAACGAGA	456	57.51
TTCATGTTCAACGTGTTCTATCATG	1390	57.74
TTCATGTTCAACGTGTTCTATCATG	1410	57.74
ATGCTCTACCTGTTGTTGTCGTT	762	56.63
GATGGAGACTTCGGCGTACA	203	57.35
CGGTGCAACACTAATTGCGTTC	81	61.34
AAGTCATCGGCGACAAGTGG	66	59.69

GAGCCTCTGGACAAGACGGA	188	58.97
GAGCCTCTGGACAAGACGGA	212	58.97
GGATGAGACATTCACCGAGTCG	355	60.46
GGATGAGACATTCACCGAGTCG	355	60.46
CAACGTCGAGTTCGAGCCATAC	188	60.62
CAACGTCGAGTTCGAGCCATAC	200	60.62
ACATCACCACCGTATCAACCG	137	59.18
AGTCATTGACTGCACCAAGCT	145	56.13
ACATCACCACCGTATCAACCG	104	59.18
CGGACTTCTCCTTGATGATATTGC	516	59.93
AATTCATTGGCGTCGACTATTGG	469	60.96
CGAGCAACAGCCAGAAGTTC	154	57.29
CGAAGAGAACACTGCGACGT	363	57.7
CGAAGAGAACACTGCGACGT	362	57.7
GATCAGCATTATCGTGAACACGTC	723	59.51
GATCAGCATTATCGTGAACACGTC	1134	59.51
CAGATGTTTCATGTTAATCCAATTAGTC	336	56.22
TGTCAAGCACACCACCAACA	106	58.1
TGCATACCTACGCAACAGATTG	118	57.49
TACGGTTGGCTTGCTCACAT	48	57.84
GACCACGACTACTACAATACTGAGACC	231	58.84
TTGGAGAATGTGGAGCCAAT	320	56.64
ATTGATAGATTGCCGCTTGG	338	56.44
CGTGCTTCTCGTCGATCAGA	418	58.7
CACACCTGTAGCAAGTACAATGACC	336	58.67
GCTACCGAGAAGTTGTGGAAGTG	472	58.94
TTCGACCGTGTGATGCCAAT	35	60.87
CAGAAGAACAATGCCTGCGTAT	1055	58.02
CAGAAGAACAATGCCTGCGTAT	824	58.02
AAGAAGGAGTCGCATTGGATAG	220	56.29
AAGAAGGAGTCGCATTGGATAG	233	56.29
AAGAAGGAATCGAATTGGATAGTGA	68	58.27
TTCGACTGCGTGAAGCCAAT	299	60.35
CCGTGTGCTCCTAGACATCC	145	56.79
CGGTTGAGATTGTACGGAAGA	397	56.44
TTCGTGTGCTGGTGTGATGT	478	57.08
ATTGAAGAAGAACGGAGATACGAG	1093	56.88
ATTGAAGAAGAACGGAGATACGAG	1045	56.88
CACAATCTGCGGCTTCTAACC	859	58.46
CGGCGATTGCTGACAAGGAT	867	61.98
AAGAGCAACTGACAATTCATGAAG	217	56.41
CATCAGACACGCTCCGCCTA	54	60.9
GCAACTGACTTCGTGGAATGTG	160	59.23
TTCAGGAATCTCAACCAACGA	156	56.85

TTGAAGTCGGCTAATGTGATGA	313	56.99
CTGTTGCTTGGTATTACAGGAATG	507	56.66
CCGCCAACTGTCTGATGTTC	208	57.74
TACACTCCTGATGATGAACTCTACTCTT	940	57.02
TACACTCCTGATGATGAACTCTACTCTT	951	57.02
GAGAGGAATCGATGTGTCTTCTGTG	1329	60.12
AAGGAATCGGTGGCATGATG	501	59.34
CGTATCTATTGGTCCACGTCAGC	62	59.51
AAGTACACACTGCCTTCGTTTCG	583	58.06
CTACACTGGTGGAAACCGTCGTC	76	60.41
TATGCGAGAGTAGAAGACAATCCA	796	56.88
AACTCAAGAGATGAAGCTCGGA	28	56.92
GCGAGGAGTGTCAAGGAGAA	948	56.63
AGTGGAAGTTGTGGATGAAGAGC	311	58.39
GCGAAGCTCACCAAGCAGTT	206	59.21
AAGGTTAGAGCATTGCCACACT	174	56.7
CGATGTGTGTGCGTGTGTCA	80	59.77
TCAGTGATCTCGCCTAACATGACTT	530	60.13
AGTTCTTCTACTCTGGATCACTTGG	115	56.09
TTCATGGCTTCATGAGACTATTCTC	106	58.85
AGTTCTTCTACTCTGGATCACTTGG	115	56.09
ATGGATACAGACGCTGCAAGAC	36	57.96
GGAGTCATTGTGTGCTGCGA	139	59.41
CGAGAGGATTATGGAATCTTGG	198	56.46
GCTCCTAGCAGTATTCTTATCGAGTT	65	56.89
AGTATGTCACGCCACAATATGCTG	128	59.91
AGTATGTCACGCCACAATATGCTG	128	59.91
AGTATGTCACGCCACAATATGCTG	128	59.91
ATATCAATTGGAAGGCGGTCTGA	415	61.4
GTGCCGTCATCGTCTGTGCT	133	60.85
CAAGAGGAAGTGAAGGCTGAAC	221	56.83
ACGAGTGTACCGAATATGGAACA	39	57.19
TGCTTCCTATTGTTCAATTATCCG	405	57.01
GGTGTCTAATACGATAAGTGCTCCA	138	57.54
CCAGGACCACAAGGAGAGAGA	813	57.91
CCAGGACCACAAGGAGAGAGA	813	57.91
TGGCGTTCAATAAGCATACCG	26	59.57
CCGCAAGTTCAGAAGCCGAT	4112	61.2
CGGCGACAGTTGAACGAGAA	1146	60.91
CGGCGACAGTTGAACGAGAA	1323	60.91
GTCCACCTGCTCATCCGATT	157	58.54
AAGAAGCTCTTACAACATTCGTGCTA	209	58.78
AAGTGACCATACCAGCAATAACCG	118	60.11
CTTGTGTGGATGATTATGACGTAGATC	596	58.9

AATGTGGTGTCCGATGGTCT	298	56.29
TAACAATATGGTCAGCGATGGC	147	58.58
TTCATTCTCCTGTCACTTACTTCCATT	39	59.46
GCTGGCGGTCCAACCTTCTCT	181	60.34
CCGTCGTGCAATTGAGGACT	157	59.69
GAAGGATGGAGATGTGGCAGA	415	58.68
CGATTCTTGTGCCGATACTCC	156	58.27
GGATAGTAGAGATCAAGGAAGCGA	308	56.95
CGATATCCGAGTGCAAGAATC	72	56.03
GTTCCACCGTCGCCAAGACT	164	61.02
GTTCCACCGTCGCCAAGACT	120	61.02
GCAGAAGCCTCGGAAGATACC	105	58.93
CCTCAAGGCTCTCGCCAATC	240	60.8
GCAGAAGCCTCGGAAGATACC	105	58.93
GGATACAATAAGGCCGAGATGA	144	56.85
GGATACAATAAGGCCGAGATGA	134	56.85
TGTGAACAACGTGATACAGGACA	136	57.66
ATTCCTTGTCTTCATCGTCTTCG	34	58.39
GCAGCTGTATGTATGAATGTACTATTCC	296	57.57
TACTACCACTACCAGCAACAACCG	105	59.14
GCCGTA CTTGAGACTGTGTCTG	28	57.08
ATGTGAAGAGATGGAGATTGATTG	665	56
GGACAGTGGTCCAGTGGAGA	422	57.02
CTGAGCAGTGACTGCAACGA	451	57.28
AATGCTCGGCGATGATGTTAG	2366	58.8
AATGCTCGGCGATGATGTTAG	2372	58.8
CACTGGCTAGAACTGATCTTGGA	146	57.25
CTGTGAAGAGGCTTGACTTGAT	156	58.52
CGAATGGAGTAATTGTGAATATGG	137	56.37
GCATTCTAATCATTAAACCATGTCAA	67	56.12
TGGTGATGTGCAATTGTCTGA	271	58.05
GAGCACCACCACAGTTCCT	813	58.59
GAGCACCACCACAGTTCCT	133	58.59
GATGTCGTCAATGTCTGAGTCG	94	56.85
TTCCTGTGCTCACCGATTGC	378	60.75
ATGGCTGGAGGAGTTGTGAGG	162	60.08
GATACAATCATTCGGCAGGCAT	631	59.77
AAGATCAAGGATCTCTTGCAA	823	56.67
ATGGAGACACTTGATTGATGGAT	132	56.12
CTGATAAGAATGTGCAGAATACGATC	259	57.22
CTGATAAGAATGTGCAGAATACGATC	424	57.22
CTGATAAGAATGTGCAGAATACGATC	354	57.22
CTGATAAGAATGTGCAGAATACGATC	369	57.22
CTGATAAGAATGTGCAGAATACGATC	395	57.22

CTGATAAGAATGTGCAGAATACGATC	353	57.22
CTGATAAGAATGTGCAGAATACGATC	317	57.22
ATGGATTGAGTGTTGTGACTGG	116	56.08
CCTCCTGTGTCTACTCCATCG	339	59.58
ATGCGAATCCACAACCAACA	102	58.42
CCAGCAGGACGAATGTCACTA	718	57.43
GTTGGTAGCAAGCCTTAATTGG	24	56.71
TCGGTGATAATCGGCTATCG	217	57.29
CTCAATTCTGAGTATCTACAGACGGTCA	595	60.04
GATAAGCTCAATCGATCCACTGG	128	58.72
CGTCGGAATCTGTTCAATGG	185	57.6
AATGTTGCTCTGTGTGCGTATTCC	51	60.22
AATGAGACCGATTGGTGGA	413	56.49
GGATTCTTCAGAGAACCGCAA	2275	57.99
AATGTGCTGACTAGCCAGAGACT	1305	56.07
GGATTCTTCAGAGAACCGCAA	1333	57.99
CAGCCGTCCGACAGACACAC	75	61.3
CGGCCGCTAGAGATGGAAGA	1070	61.3
CTATGACGTGCCGATCGTTGTC	291	61.37
AACCTCTTCTTCTACCTCAACGC	106	56.96
GATGAAGGCTGTGCGATTGG	614	59.08
GATGAAGGCTGTGCGATTGG	635	59.08
GATGAAGGCTGTGCGATTGG	337	59.08
GATGAAGGCTGTGCGATTGG	358	59.08
CGCTGTTCAACCGATTGCTA	3903	58.52
GTACATGGACATCCGATTGACA	1476	56.86
CCAACGAGGCGACAACCTGAT	2080	59.69
GACCAACCACCGGAGGAGTT	49	59.79
GATGTACGTCACCGCCAAGG	439	59.95
CAGAACTATGGAGGCGGTGGA	195	60.95
CGGTTCACTCAACTCCAAGTCATC	100	58.16
CGGTTCACTCAACTCCAAGTCATC	96	58.16
CAGAACTGGCGAAGAGAATGG	115	58.53
ATTGCCTGAGGATATTATGAGAGAA	120	56.37
GTTATTGCGTTGTAGTTGTTGTCG	799	57.52
AACTGCCAACTCACCTCGATAACC	233	61.47
ATCTACAAGCCACAGCGGACT	249	57.57
GACCGAAGAGGAGAAGCCGAA	368	61.64
TTGGCAATGTGCTCACTGTG	532	57.85
ATTGTATAGTGTTCTTGCCGGTGCT	1242	61
GGAGACGATACAGCTCTTAACGCA	212	60.69
CACTGCTGCTGCTGCTGAATC	55	60.84
CACTGCTGCTGCTGCTGAATC	39	60.84
TTACAAGAAGAAGGACGATGAGC	177	56.48

CACTGCTGCTGCTGCTGAATC	39	60.84
CACTGCTGCTGCTGCTGAATC	36	60.84
CACTGCTGCTGCTGCTGAATC	39	60.84
CACTGCTGCTGCTGCTGAATC	38	60.84
CACTGCTGCTGCTGCTGAATC	55	60.84
TGCTGCTGCTGAATCAACAC	20	57.15
CACTGCTGCTGCTGCTGAATC	39	60.84
TTCACTGCTGCTGCTGCTGA	36	60.6
ATTGGCAGTTATGGCGGTAG	196	56.39
TTGCTCTATCAGTTCGTTCCAA	604	56.31
GGTATCTGTCTGAATCATGAAGGC	90	57.79
CTGATCCACTATGTAATGCTTGGTGTG	142	61.66
CTGATCCACTATGTAATGCTTGGTGTG	142	61.66
TCAGTTGGATTGTGCGGACT	244	57.74
GAGTTGCCATCTGTGATCTTATCG	52	58.77
TCCACGAGAGCCGAGATTACAC	65	61.25
GGTCACACAGCCAACGAATG	1139	58.58
TTATCATTGTCTGTCTAGTGTGCTCTG	40	57.82
AACATGCCGAACGGTTAGAGT	612	57.36
AACATGCCGAACGGTTAGAGT	512	57.36
AACATGCCGAACGGTTAGAGT	459	57.36
AACATGCCGAACGGTTAGAGT	662	57.36
ACCGAGCCACTCAGCGAAGA	73	61.96
AATGTGGTGGATAGTAGTGATGTGAAGG	617	61.39
AACAAGACTGACGAGGAGTTGG	142	57.06
CACACTCATACAATGGAGCAGATG	73	58.27
GCAGAGCTTGTTACGCTTAATCC	95	58.35
CCGACGAGAATGATTGAGAGA	762	56.54
CGACTGACTCACGAGGATACG	483	57.02
CCTCCACACCTTCAGTGTCC	211	56.54
GTCTCTTCGTCTCACACAGTCTCTC	135	57.45
GAGGTCAATGCGATGATCTTCA	1075	58.73
TTGAAGGCAGACGAGAGCAC	1038	57.76
GAACTCACACGAATGGACGCT	897	58.8
GAACTCACACGAATGGACGCT	224	58.8
CGACACCGAATACGCAGAGG	1188	60.22
CCGCAGGAGATCAACGACTT	248	58.88
TGAACAAGATCAATGTCAACTATGG	706	56.9
GGTTGCGAGGAGAATACTAATCAG	75	57.24
ATTCTCAAGTTAATTGCCGACAACC	424	60.5
GAAGTGGAAGGTCCGATATTTCG	446	58.57
CCTGTCATGGCTATTGGATTTCG	994	60.27
CCTGTCATGGCTATTGGATTTCG	994	60.27
CCTGTCATGGCTATTGGATTTCG	894	60.27

CCTGTCATGGCTATTGGATTCTG	769	60.27
CAGTATCGTGTGGAGCAGAATG	255	56.99
GAGCAGCAACAGCAACAAGAAG	221	58.91
ATCTTCTTGCGTGTCTGATTCC	303	57.87
CGACAAGCTGGAATGAAGAGG	630	58.53
CGAAGGCTGAACGGATGATG	418	60.17
CGAAGGCTGAACGGATGATG	374	60.17
CTTGTCGCCTACCTGCTGCT	395	59.23
AAGCGGTGACCAAGTGTCTCA	438	57.88
TTCCTATGCATTATAATTGGAGA	65	56.56
GAATTCTCATGGAGGACCGA	284	56.13
GTTCACCAACTTCCACGTCACC	335	60.26
TGGAAGATGAATGTTGATGAAGC	441	57.79
TTGTGATAATGAGAAGCCGTTG	500	56.57
CTTCCGTTGCCGTTATGTGT	503	57.23
GTTCAATCCACCACCAATCAC	322	56.25
AACCAACCAAGAACCACAAGAATC	267	59.28
CCGCCGAATCAGCAAGAGAT	867	61.18
CCGCCGAATCAGCAAGAGAT	867	61.18
CCGCCGAATCAGCAAGAGAT	867	61.18
GCCGAGGAGGATTATGTCACT	1950	56.84
AATCGCATTGAAGATCCACTAGTG	97	58.34
CGGCTTACGATTATGGATGC	79	56.86
TTGGTGCCGAGTGGAAGGAC	2626	61.93
ACGGAACAACACTATTGAGGAGAAGA	127	57.19
ACGGAACAACACTATTGAGGAGAAGA	151	57.19
AGAGTTGCTGATGATTATCCGTT	1545	57.11
TGAGCAGTCGTCTGAATCCA	247	56.45
CCTTACTACGAGTGATGGAGAAGATGA	596	60
GGCTCAGGCTTAGGCTCAAC	72	57.76
TTGTATTCCAGGCAGAACACAA	433	56.91
GCGGTGAACAGTTACATGCG	1000	58.79
CAACAAGACGCCAGGAGCAT	460	59.84
GACGTTGTTGTATTCGGTGCA	407	58.15
GACGCCTTCCTACATCTGGTG	1286	58.27
GACGCCTTCCTACATCTGGTG	1422	58.27
GACGCCTTCCTACATCTGGTG	953	58.27
GACGCCTTCCTACATCTGGTG	1422	58.27
GACGCCTTCCTACATCTGGTG	953	58.27
GACGCCTTCCTACATCTGGTG	953	58.27
GCATCGGAGGTAGATTCTGACT	37	56.16
GATTCCGTTGCTGTAGATCCGAA	129	61.22
CTGATGATGAAGGAATGTCTGTTG	269	57.35
AATGTCACCGAATCCGAATG	2365	56.92

AAGGTGAAGAAGGATATTGGCA	73	56.52
GATCGCCGCTGATCAGGAGT	878	61.24
GATCGCCGCTGATCAGGAGT	793	61.24
GATCGCCGCTGATCAGGAGT	804	61.24
CCTCTTGAGACTACGCAATCCT	1435	56.38
CCTCTTGAGACTACGCAATCCT	1435	56.38
CCGATTCCACAACGTGCCGA	439	60.46
CGGTTACTGGTATCGGCTGA	260	57.32
AACCGAATAAGGAGAAGGAACG	927	57.49
GCCAAGAAGCAGAAGCAGTG	202	57.44
CAACTCCACTGATTCCGATGA	2242	57.18
CAACTCCACTGATTCCGATGA	1099	57.18
AGATGGACGGCAAGACTCAG	167	56.5
ATTCAACCGATTCCGACACTT	313	57.14
GCTTCATGGCGAAGTCAATG	510	57.91
CGAGAGATGATTGCCACACC	51	57.68
GAAGTAGCGACTCAGGAAGTATGG	519	57.35
GAAGTAGCGACTCAGGAAGTATGG	519	57.35
GCGGTAGTGATAGCGACGATAG	890	57.7
GCTCATGATGGACACATCTCATTG	211	60.34
AAGAAGCGAAGAGCCGATGA	738	58.75
AAGAAGCGAAGAGCCGATGA	744	58.75
TTGATACATATGAAGCTGGCAAGG	182	59.15
CGTTATTGCACAGGCTTGCT	738	57.67
ACCGATTTCATCATCCACCGA	742	59.71
TCTAAGTGGAGCCGCATGAGAT	175	59.82
TCTAAGTGGAGCCGCATGAGAT	175	59.82
TTCCTTCAACGGCACACAC	37	60.5
GATTAGGCGTTGCTGTCTGTT	118	56.6
TCAACGATTAGGACACTTATTCCTG	539	57.57
GACCTCATCTTCACCATCGG	983	56.52
GTTGGATGGAGTGGCGATTG	778	59.9
GCAATGATGAAGCAGGAGCA	821	58.55
GCGAAGACGTATTGGCAGTT	760	56.6
GCGTCCTGAAGATGTGGCAA	781	60.75
AAGAAGTACGACATGAGAGGAGATACAG	595	58.58
TCCAATGAGACCGACACAAGA	1052	57.72
TCCAATGAGACCGACACAAGA	776	57.72
CGGTGTAACACTGGAAGATATTCG	1105	58.61
TTCCTTCAACGGCACACAC	76	60.5
GCCAAGGAGCAGGATTCACA	950	59.77
GAATGGATCGCCGATTTCGAT	56	60.71
ATCGACACGTGGCGATGATG	232	61.46
TAAGGCGGTGGATAGGACGA	508	59.12

ACTTATCGAGCTGATAGAGATGTGC	593	57.04
GAATCACACCGTCACCTCTACC	952	57.11
CGGCTATTCAACAACACTGTCA	494	57.43
AATTCGGTGGAGCAACTGCA	81	60.21
AATTCGGTGGAGCAACTGCA	64	60.21
CAGCTCAGATGACTACTTAGAAGCC	96	56.86
CGGCGTTGAGAGTGAGGAGA	165	60.1
CGATGACGACGACGACAGTC	260	58.84
AACAAGAGGCGATGAATAATACCG	592	59.4
AACAAGAGGCGATGAATAATACCG	565	59.4
AACAAGAGGCGATGAATAATACCG	130	59.4
GCTTCTTAGAACACCTAGAGCAACTC	33	57.37
GTGTCAGCTGGAAGGTGGTG	164	57.72
TTACAGAAATTGACGGAGAAGTTGA	214	56.78
GTAATGTGTGGAAGTGTATGTGTATCG	555	57.63
GTAATGTGTGGAAGTGTATGTGTATCG	314	57.63
GTAATGTGTGGAAGTGTATGTGTATCG	314	57.63
CATCGTGTGCAGAACTGGAA	243	56.82
CATCGTGTGCAGAACTGGAA	159	56.82
CCTACGCTATTCGCCTTCTCCTA	360	59.84
ACATCAGCAGCCGACAAGTTC	69	58.94
AAGTCAACGTGGCTGACGTG	245	58.37
AATGCGCCATAGCTAATATTATACTCAT	51	58
GCCAACGAGGTTGTCCAGAC	327	59.14
GGTTATGATGGTGTGGAGCT	489	57.75
AACTCCGCTGATGATGGCTT	361	58.35
TTGATTGGTGGTCTCTATGCTTC	416	57
GTACAAGCAATACTCCGAACAGC	314	58.1
TTCATTCTAGTCTGTCCGTACCTTC	825	56.81
AGTACGCAAGGCGACGACAT	666	59.35
ATACTGGAAGTCCTTACGATTATACCG	313	58.2
TCGTGGTCTGTTGGAAGTTGT	454	56.74
TCGTGGTCTGTTGGAAGTTGT	450	56.74
CGAGCGAATCAGCAGCTATGC	171	61.96
TCGTGGTCTGTTGGAAGTTGT	469	56.74
GGAGACTGCGTTCAGAAGAGC	933	57.88
ACGGAGAGTATGAGGCAACCA	1666	58.27
AAGTATGCCAGCGAGGATTG	1585	56.54
GCTGATTGGTCGGCGTAGTC	361	59.29
ACGGAAGTGGCGATTATGGT	4964	58
CGTCCATTAAGCCGAGAGTC	313	56.11
CTACGGATTCTGCGAGTTCAC	226	56.19
GATTGTAGTGGAGCAGGAGGAG	253	56.65
TAGTGAACAGTATGGAGGAGATGG	800	56.1

TAGTGAACAGTATGGAGGAGATGG	904	56.1
ATCGGTTATTCGCCAGTATTCC	209	58.04
ACTGCGTATTGCTATTGTGGAA	85	56.19
GCAGTTGGCTTACGGAGTTG	379	57.11
ACTGCGTATTGCTATTGTGGAA	327	56.19
GGAGGAGAGAACTTGGAGCTG	1234	56.8
GGAGGAGAGAACTTGGAGCTG	1176	56.8
GGAGGAGAGAACTTGGAGCTG	1234	56.8
GGAGGAGAGAACTTGGAGCTG	1176	56.8
GGAGGAGAGAACTTGGAGCTG	1234	56.8
GGAGGAGAGAACTTGGAGCTG	1176	56.8
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ATAATCACGGACAAGTTCGCAA	747	58.25
ATAATCACGGACAAGTTCGCAA	548	58.25
ATAATCACGGACAAGTTCGCAA	747	58.25
ATAATCACGGACAAGTTCGCAA	548	58.25
ATAATCACGGACAAGTTCGCAA	747	58.25
GGCTGGTGTGAAGTCGGATA	195	57.2
AACTCTGTCGCTTACTCTCCTTC	840	57.67
CGAGACCGACTACCTGGAAG	736	56.06
CGAGACCGACTACCTGGAAG	736	56.06
CTGACGATGAGAAGACGAAGC	406	56.35
GTGGTGCTCTTCCTGATGGT	249	56.16
TGATGTGGTATGGACAAGAGATG	592	56.16
AACGGATTGTCTGAAGCAACA	924	57.81
AACGGATTGTCTGAAGCAACA	924	57.81
AACGGATTGTCTGAAGCAACA	933	57.81
AACGGATTGTCTGAAGCAACA	933	57.81
TTCCACCGATTCTCCTTCCT	27	57.24
CCGCTGTTGAATGGAGGAAG	197	59.26
AGACACGCAAGACTTCACCAG	199	56.65
CCAACACAATGCTTGACAT	174	56.64
CCAACACAATGCTTGACAT	128	56.64
CTTGTGGCGATTAGGATTGATAC	686	56.52
TTATACTTCTCGCTGCAGCTGTG	123	58.48
TTACAGTCAAGTTAACAATGATCGTG	121	56.33
GCCATGTGCTGTATGCTCTTC	43	57.06
TGTATCATTGCCGAATTGTTGTTG	749	60.55
TGGCTCATAACGCTCAGAATC	118	56.68
CAGTTGTTGAAGGACGAAGTTG	172	56.17
GGAGGAGGAAGAAGCAGAGC	2435	56.87
CCATCATATGTGTACAGCTCCTACA	1418	56.95
CTGGTGGAGCAGCTCGTAAC	1126	57.16

ATTCTCGGCGGAACAGCTAT	212	57.52
ATTCTCGGCGGAACAGCTAT	238	57.52
GACGGTAATCAGGAGAAGACGGA	1926	60.42
GACGGTAATCAGGAGAAGACGGA	1956	60.42
TTCAGACAAGTGTACGTTGCACGT	1714	60.6
AAGATCGGCTCGACTCAAGA	366	56.26
GGCTCCTCCATCAATCGTCCT	1181	61.27
CAGCGACGGACGAGATATGG	1168	60.19
CAGCGACGGACGAGATATGG	1168	60.19
TTGGTCGGACTACTAGACTTATGTGG	198	58.72
TTGGTCGGACTACTAGACTTATGTGG	198	58.72
CCACCAACGAGGACGAGGAG	170	61.55
ACTCAGCAGAGGCTTGATCTTCC	1095	59.98
TTCGGCTGGTGATCTGGAAT	597	59.08
TTGTGGAACATCATAGTCGGATT	110	57.11
GGCTCCTGGCGAAGTTACGA	769	61.2
GGCTCCTGGCGAAGTTACGA	769	61.2
AGATCCGCGAATCAGGAGAA	245	58.42
CCGAATCCGAGAGCCACATC	497	61.46
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TTCTCGTCTCCGTTGCTGAC	184	57.61
TGATGAGAAGAAGGAGCGACA	817	57.21
GGAGGAAGAGTTACTGCTGTGAA	1299	56.43
AATTCGAGAACTGCCGAGACT	495	56.78
AATTCGAGAACTGCCGAGACT	489	56.78
GCCGACGAGTGTAAGGATACCAGT	77	61.49
AGGTCGGAGAAGCGTTGAAG	183	58.13
TCATCCTTCGTTGGTTCGTC	762	57.17
GCTCTATCGGAAGCATGAGGA	705	58.1
TCAGTGGTTGGAAGCATTGG	244	58.14
AATGGTTGGAAGTATTGATCGG	239	56.63
ATGCTGACTGAGGTTGACGAG	1371	56.58
GCTACCACTCCGACTCCTGA	352	56.5
GCAACAGCTAAGGATCTTGGAC	148	56.75
CCTCACCCTACCAACAGCAG	4515	56.93
GAAGAGGAGGAGGATGTAACTTCA	34	58.04
ATTCTGACGTGGATTATGTTCTGTT	70	56.91
ATTCTGACGTGGATTATGTTCTGTT	194	56.91
ATTCTGACGTGGATTATGTTCTGTT	70	56.91
TGATAGTGATGGTGAGACGGAACA	419	60.36
GGAAGCAGATGGATGCCATG	100	60
TCTGATGGTCGCTGCCTACT	1969	57.1
CCGCAAGGCAATTATAGGCA	811	59.65
GCACCAACTACAGTCGGCAA	136	58.38

CACAGAGCCACACGCCAAGA	100	61.95
CACAGAGCCACACGCCAAGA	181	61.95
CCATCGGAGAAGAGGCTGAC	114	58.42
GATTGTGCTCATTGCGATGC	670	58.83
GATTGTGCTCATTGCGATGC	670	58.83
GATTGTGCTCATTGCGATGC	670	58.83
GATTGTGCTCATTGCGATGC	626	58.83
GACCTACTGCGGCTGCTACG	304	59.63
CGTCATCCAGTAGTAACTCGTCTCT	194	56.93
CAGCTCTGGAATTGCAGTTGC	391	59.6
AATTCGATACGACGCAGGAA	347	56.93
AATTCGATACGACGCAGGAA	347	56.93
CACATTCAGCAATTGCCAATC	48	57.69
TGAACATCATCATGCTCGATCAAC	82	60.82
CTTCAAGACTGCGCACTGTGC	35	60.73
CCTCAAGTGGAAGCTCGGAA	217	59
TCCAGTGATTGCGTATTGCTC	95	57.45
TGGTCACAACAACCTTCACTTCA	808	58.4
CGCTACGACTACAAGGATTACAAG	1335	56.2
ACCTCTTCATCTTCCTCACAACCTCAA	858	60.46
TGCCAAGAGTTACGAGGAGAGC	33	59.62
CTAAGAGTTATCATAAGGATGCCGAT	39	57.25
CCAGACGAGGAACAACCAATGAC	869	61.57
CCAGACGAGGAACAACCAATGAC	869	61.57
CTTCAGAACACCATCCAACCTCC	1111	57.24
CAGGATGCTATTACCAATGAACG	893	57.36
CGTCTCATTGTACATTGCACTTGG	713	60.39
AGGCGAGGTTGGAACGAGAA	230	60.7
AGGCGAGGTTGGAACGAGAA	32	60.7
CATCAACAACAACAGCATAGTGG	371	56.86
CATCAACAACAACAGCATAGTGG	371	56.86
CATCAACAACAACAGCATAGTGG	278	56.86
AATGAAGGACCACCAGTTGC	803	56.14
CAGGCCTACTGAGCCACGTT	50	58.95
AACTTCTCACTTCCGTCACTGATG	436	58.44
AACTTCTCACTTCCGTCACTGATG	434	58.44
GTGGAGAGATTATGGAGACTGGA	563	56
TTGTGGTTAATGGAAGTGCTGA	498	56.91
ATACAGGAGACCACCAATCATAGAAC	55	57.65
ATACAGGAGACCACCAATCATAGAAC	188	57.65
TCTGGCGATGGATGCTGTTAG	198	59.81
AAGTAACTCGAAGAAGCTGACCATC	71	58.23
ATTCAGGAGGACCATCTTACAGC	6030	57.42
ATTCAGGAGGACCATCTTACAGC	6171	57.42

ATTCAGGAGGACCATCTTACAGC	3219	57.42
ATTCAGGAGGACCATCTTACAGC	2613	57.42
ATTCAGGAGGACCATCTTACAGC	3258	57.42
ATTCAGGAGGACCATCTTACAGC	3399	57.42
ATTCAGGAGGACCATCTTACAGC	5496	57.42
AGGAGGACCATCTTACAGAGGAG	3403	56.67
TTGAAGAACCTGATGATGATGC	1193	56.35
ATTCAGGAGGACCATCTTACAGC	6030	57.42
ATTCAGGAGGACCATCTTACAGC	3360	57.42
ATTCAGGAGGACCATCTTACAGC	3399	57.42
ATTCAGGAGGACCATCTTACAGC	6171	57.42
ATTCAGGAGGACCATCTTACAGC	2280	57.42
ATGTTGAAGAATATCAGAATACCGTTG	2659	57.79
ATTCAGGAGGACCATCTTACAGC	3399	57.42
ATTCAGGAGGACCATCTTACAGC	3201	57.42
TGTAATGAATGTGCGAAGGACT	726	56.03
TGTAATGAATGTGCGAAGGACT	726	56.03
TGTAATGAATGTGCGAAGGACT	1594	56.03
AATGACAATCGCTTGGACAATG	313	58.56
CGATACATTCTGACGGCTGAC	1271	56.91
ATGGCAAGTCGACCTGGAAG	854	58.73
CATCTCTCAAGGCAACGACAC	770	56.99
TGGCTCATGCTCGCAGTTCT	347	60.65
ATCACCTATGTCAACAAGAATGGA	528	56.32
GCAACAGGAGGATGGCAAGC	103	61.63
CGGCAGACACACTTATTCCAG	208	56.97
CGGCAGACACACTTATTCCAG	84	56.97
CGGCAGACACACTTATTCCAG	82	56.97
GATTCTTGTGTGATTTCGTATTGATG	943	56.44
CGACGAATAAGAACAGATTCTATCAC	878	56.49
TACTATGTTGCTGCAAGTTACGC	584	56.15
TTGAAGGTGGAGAGCACACA	630	56.35
TATCAGTTGCTAATTATTATAGGCTTGC	98	56.86
GAGTCTCTCTCTCCAAGGATGTCA	670	57.7
CAGTTACAATTGCTCGTGCCT	826	56.68
TTCTGATTGAGGATCTGCCAGA	482	58.47
GCAACAGGAATTATTCAAGGCA	288	57.87
CTCGGTTATGGAGCTCAAGC	106	56.27
CCGGAGCCGAGGATTCTACTG	1021	61.87
GCTTATTGAGGTGGTTGTCAGGAG	575	59.99
GCTTATTGAGGTGGTTGTCAGGAG	575	59.99
AGAACTCAACAAGGAATGCTGCT	222	58.22
TTGTTGAAGACGCAGACGGA	361	59
CTTCTCCGTGGTCGCTGTGT	107	59.87

GATTATTCGACTACTTGTGTTGTGGT	132	56.6
GACGTTACCAGCGATTGCCA	200	60.6
TACTCGGCTGTCACCTTCTCA	63	57.15
TACTACTGTTGCGGTGATGGC	162	57.39
CATCGGCGTTCTGTGGACTG	657	61.21
AATTCGTTAGCTTCTCCATCACC	856	57.5
GTAGCCACTTCGCCGTTGATG	150	61.48
GTAGCCACTTCGCCGTTGATG	57	61.48
GGCGGATAAGGTGATGAAGA	189	56.29
GTAGCCACTTCGCCGTTGATG	157	61.48
GGCGGATAAGGTGATGAAGA	196	56.29
CAACAATCCGTACAATCACTTGAAGG	207	61.63
GGCGGATAAGGTGATGAAGA	511	56.29
GGCTACTATCCTCCAGGCTACC	962	57.11
GCACCACAACCTCAGCTAGGC	75	58.6
AGTGAAGTGAGCAGTGTGAACGAG	607	59.61
GGATGAGACGATTGATTATGAGG	283	56.32
CGTGGATTAGTGATTGCGAAG	1181	57.01
AACGACAGCTCTATCTATGTGGATC	151	56.78
CGAACAACGAATCAAGGCTT	28	56.58
TGATGGAACAGAGGCCAATATG	957	56.46
CGGTTATCATGTGTTCACTGTCTG	888	59.01
CGGTTATCATGTGTTCACTGTCTG	895	59.01
CGGTTATCATGTGTTCACTGTCTG	935	59.01
CGGTTATCATGTGTTCACTGTCTG	999	59.01
CGGTTATCATGTGTTCACTGTCTG	888	59.01
GCGGAAGCAGAGAGCCAGTA	1067	59.31
GATTCTCGCTGGCTTGCTAC	864	56.41
GATTCTCGCTGGCTTGCTAC	315	56.41
CAATTGTTGACGCGCGGATT	246	61.66
GATTCTCGCTGGCTTGCTAC	864	56.41
GATTCTCGCTGGCTTGCTAC	315	56.41
CAATTGTTGACGCGCGGATT	54	61.66
CAGTTGTGCTATGATTGGTTGG	397	56.79
CAGTTGTGCTATGATTGGTTGG	352	56.79
CATACGGACTACTCAAGTTATGAAGG	179	56.45
CATACGGACTACTCAAGTTATGAAGG	179	56.45
GATGGCTCCGAGTATCAGATTACGAT	268	61.64
GATGGCTCCGAGTATCAGATTACGAT	226	61.64
GATGGCTCCGAGTATCAGATTACGAT	191	61.64
GATCCGTTCAACAATAAGGCA	75	56.34
TCAAGAGGAACGGCAGAAGG	197	59
CGTGGCGAGGAGTTGTGCTA	629	60.93
CGTGGCGAGGAGTTGTGCTA	580	60.93

AAGGAGAGCGGCTCGAGATTC	440	60.9
AGCACGAGCAGTGATAATATTGAGC	198	59.79
GATAGTGTTGAGGCAATGCTTCA	339	58.01
CATATTCAATCGTGTATGGTACATTCG	709	59.45
AATCTGACGGTTCAACTCTCTGG	984	58.39
ATCTATGGCAATCGCTAATGTGG	110	59
ACTAGCGATGAATCTCGAATGG	805	57.1
AACAATCTCTATATGTGGAATTACGAGA	347	56.83
AATGGCGAGAACTGTCGTCAGA	3701	60.75
AATGGCGAGAACTGTCGTCAGA	957	60.75
GATGCGAGGAAGGAGAATGC	898	58.42
GATGCGAGGAAGGAGAATGC	804	58.42
GATGCGAGGAAGGAGAATGC	881	58.42
GATGCGAGGAAGGAGAATGC	804	58.42
ACGACCTACACAACTGCCACA	738	57.74
CTCTGAATCTTCCGTTGACTGG	363	57.53
AAGATGCTTCTGTGCGACTGG	1075	59.08
TGCTGACGAAGAACAAGACG	81	56.22
AGAGGAATCGGATCTTCTCGTG	570	58.42
AGAGGAATCGGATCTTCTCGTG	570	58.42
AACAACCGTTCCATCATCAGA	133	56.57
GTTCTCTCCATTCCGAATGCTCA	1121	61.37
AAGTAACGACACAGCCAACGC	720	58.9
GGATTAACAATTCGTTCCGAGAGT	554	58.6
CAGGAACTTCTTCTGGTGGTGA	145	57.89
CAGGAACTTCTTCTGGTGGTGA	165	57.89
CAGGAACTTCTTCTGGTGGTGA	155	57.89
CAGGAACTTCTTCTGGTGGTGA	137	57.89
CAGGAACTTCTTCTGGTGGTGA	155	57.89
AAGATTCAGCAGGTTTCAGCAA	4509	56.32
AAGATTCAGCAGGTTTCAGCAA	2814	56.32
AAGATTCAGCAGGTTTCAGCAA	1584	56.32
ACCACAGATTATGATGAGTATTCCAC	173	56.36
CATCACCATGAACGAGACGATCA	889	61.76
CGCAGTGTGGAGTGAGCAGT	135	58.63
ATCCGTGTTCTGCTCCTATCC	311	56.84
GACTGCATGTAGTTGTCTTATCACTGG	272	59.19
GAAGAATGATAGAACACTGAGAGATGAG	371	57.07
CGACAATGCTTCTGGAATGG	555	57.76
GTTGAGAATCGGTTATGATGATGTGT	146	59.19
AAGATGCTATGGATACTGGCGAA	680	58.77
AAGATGCTATGGATACTGGCGAA	688	58.77
GCCAGGAACTCCAGGACAAG	814	58.32
ACAAGACAATGCGGCGGACT	127	61.53

TCGGAAGTGCTGCTAGTGGAG	1433	59.22
TTCATTCTTCTCGGCTTCTGG	42	58.13
CCACAAGTCGCTGCTCACAC	204	59.05
GTCGCTGCTCACACTCCACT	210	57.61
CCACAAGTCGCTGCTCACAC	24	59.05
AATGCTCTAATTGATCAGTCTATTGC	1115	56.2
AATGCTCTAATTGATCAGTCTATTGC	503	56.2
TTGACAACGCTGGATGGCTA	227	58.87
CCAGCCACCGTCTCTTCAAC	321	59.28
CCAGCCACCGTCTCTTCAAC	188	59.28
TTGACAACGCTGGATGGCTA	207	58.87
GTGGACCAGGAGATGTGGAAGC	435	61.73
TTGACAACGCTGGATGGCTA	207	58.87
CCAGCCACCGTCTCTTCAAC	70	59.28
TTGACAACGCTGGATGGCTA	186	58.87
TTGACAACGCTGGATGGCTA	225	58.87
TTGACAACGCTGGATGGCTA	207	58.87
AAGGAATTGTCGAGATGATCGTC	260	58.21
TGTAATTGGAGGAGATGGACAGA	2706	57.28
TGTAATTGGAGGAGATGGACAGA	931	57.28
CAATCTGATGCAAGTCAGGAGTT	278	57.1
GCCAATGCCGGAATTCTGAA	97	61.75
AACGGAACAAGTCGGATGCTG	1087	60.98
GCGAATTGGAAGAGCATTGC	91	59.38
GCGCGTATGTGAATCGCATC	71	61.11
TTCTTCTCTCTTGAACCATCTCTCA	91	57.48
CTATCCGCACGAACCGCTAA	334	59.81
GTGCGTACATATTGACACATCGT	753	56.25
AAGGACCACCACCAGACTCG	1321	58.59
AAGGACCACCACCAGACTCG	1321	58.59
AAGGACCACCACCAGACTCG	1321	58.59
GTGTGTATGTGTCTTGTGGAGCGA	113	60.95
AGACACAGCCGCAGCAACAG	292	61.15
GAACTAAGACCACTAAGACCACATCC	83	57.47
CATGTAGCAAGTGAACGAATGAAG	99	57.64
GGCAATGGCAGAGAATGGTC	2221	59.08
AATGTGGCAGAGATGAACGG	328	57.2
AATGTGGCAGAGATGAACGG	328	57.2
AATGTGGCAGAGATGAACGG	296	57.2
GCTCACAGATATGCAGAGAACAGA	416	57.4
TCATCGGAACATTTCGGTGGA	321	60.81
ATTACGGATACGACAGGATGAGA	1182	56.42
ATTACGGATACGACAGGATGAGA	1285	56.42
ATTACGGATACGACAGGATGAGA	982	56.42

TTCAACGACTTCAGAGAGCCA	420	57.27
AATGTGCAACAAGAGCACCA	96	56.35
AACTCCATCAACCTCATCCG	59	58.45
AACTCCATCAACCTCATCCG	59	58.45
TGAGGAGAATGGTGGTGGAG	1416	57.07
TGAGGAGAATGGTGGTGGAG	1302	57.07
TGAGGAGAATGGTGGTGGAG	975	57.07
TGAGGAGAATGGTGGTGGAG	1137	57.07
GAAGCAGTAGCAATCGCACAG	1862	57.42
GAAGCAGTAGCAATCGCACAG	1478	57.42
GAAGCAGTAGCAATCGCACAG	1611	57.42
TCAGCACCAACTCCACCAAC	1348	58.14
TCAGCACCAACTCCACCAAC	1409	58.14
GACCTAAGGATGATATCGCGTT	134	59.34
GATGGATGGAGTGCAGGAAGA	1493	59.59
GATGGATGGAGTGCAGGAAGA	1493	59.59
TCCTGATACTCCAACACGAAG	982	56.3
TTATTATTCTTCTGTTTCATTGCATTGG	58	58.62
GTCATCATCTTCTTATGGTGGACA	308	56.72
CTCATACAGAGAACTTCAACCATCC	6014	57.07
GTTCAATACATTCAACAGAAATCACG	107	57.89
AACCGTCACCAATGGTGCTC	48	59.41
TTGCACACCTCAGTGAAGATGG	167	59.73
CCAATCCGTCCGTTCATTACAC	50	58.76
GAACAAGTCTGAGTTGCCATTG	843	56.09
GGCGTGTGCTGTTCTTCCAT	556	59.7
GGCGTGTGCTGTTCTTCCAT	406	59.7
TTGGCACATCATTCCTTCTCG	53	59.65
TTGGCAGACAGCAAGCATGT	700	59.03
AACTCAATGCTCTGGCGAAG	677	56.77
TCAAGGATTCTGCTGGACACTC	668	57.99
GGTGCTGGTGGATATGGATC	85	56.28
TCCACCAAGCACTACCAGCAC	529	59.75
CGATTCTGATTATTGTTGCCTTC	102	56.63
GGATGTGCGGCTGGTTACTC	48	59.15
TGTTGGCTCTATCACTGTTATTCTGG	133	59.57
TGTTGGCTCTATCACTGTTATTCTGG	93	59.57
CATTGGAGGTCACATCATCGC	1043	59.91
CATTGGAGGTCACATCATCGC	938	59.91
CATTGGAGGTCACATCATCGC	944	59.91
GCGTTCCTCCAATGGAAGAAG	199	59.66
TCGGAGCCATTGACTGTTGT	180	57.74
TTGAGGAGAGCCAAGCGGAT	123	60.8
GACCTGGCAATCACAGAACC	225	56.59

GTCGCCGCAGATAAGGATAC	47	56.05
CAAGAGACAGCGGAGATTGTAGA	3788	57.39
TGATGGAGGAGAAGACGCAGGT	317	61.97
CAAGAGACAGCGGAGATTGTAGA	3788	57.39
TGATGGAGGAGAAGACGCAGGT	317	61.97
GTCAGATCCATGGCTTGAAGA	800	56.37
CATCACTCTCAATGTTATCACCGTT	704	58.14
CAGGTAGCAGCGGATATGGTA	161	56.55
ACACCAAGATTTCGTATGCTCGT	1807	57.38
GAGATTCGGACAAGACATTGACAT	145	58.13
GGCGAAGGAGTTAAGGACACAGA	633	60.57
GCACTAAGAGTTCGACCTATGACG	375	58.17
GGCGAAGGAGTTAAGGACACAGA	551	60.57
CCATCCTCTTCCAACAACCG	49	58.97
CTCAGCGACTACAGCTCCAAG	105	56.61
GCTTATCTCAATTGTGCCGAA	51	56.64
GCTTATCTCAATTGTGCCGAA	82	56.64
CATATTGAGTCATTCTGACATTAAGTGG	73	58.21
ATACGGAGGATGAGAAGAAGGAG	119	56.71
CACTGGAAGTGTCATGGTGGA	193	57.99
AAGGAAGACAATGGATATAAGGCGTA	489	59.34
AAGGAAGACAATGGATATAAGGCGTA	489	59.34
GCGATGTGGAGCAGAAGGTC	2845	59.39
GCTTCAATGGCTCTTCTCTTCC	1222	58.22
CGCTAACCGATGGATCACTAG	273	56.14
CGCTAACCGATGGATCACTAG	308	56.14
CGCTAACCGATGGATCACTAG	271	56.14
CGCTAACCGATGGATCACTAG	271	56.14
CGCTAACCGATGGATCACTAG	308	56.14
TGATAAGCTCAAGTTGACAGTGATG	1338	57.27
GCCATGTATGATAGCTTGACAAGG	439	58.7
TTGCGATTGGAAGTGTTGCC	420	60.58
ATTGCTCGGCTGGAAGGAAC	497	60.16
CGCACCGTACACCGAGACAC	160	61.13
GCTTCACGGACTIONACTAATAGTGGA	244	59.3
GGCATACTCATTGTGCCACAT	23	57.03
TATAACAGCGAACTCTGACTATTACTCA	55	56.13
GGCGTGCTGGTTATTCTATCG	550	58.35
GGTCGTTCAATAGTTAGATCATTCACT	186	57.14
GGACCACTTGGAGCTCATGGA	60	60.98
GGCTCGTATGTCGGCAGTGT	538	59.72
GGCTCGTATGTCGGCAGTGT	538	59.72
GGCTCGTATGTCGGCAGTGT	492	59.72
GGCTCGTATGTCGGCAGTGT	1696	59.72

GGCTCGTATGTCGGCAGTGT	1656	59.72
ACGGAGCACGTTGTCACTGG	140	60.72
AATGGCTGATACAGAAGTCATGC	127	57.02
CCTGCGAATCCTTCTGTCTG	477	57.07
AGATGAAGCAGGTTGATGATGAC	393	56.9
AGTCATCAACCTGTGCTCCATC	34	57.72
CGTCATTGGAAGTGAAGCA	480	58.3
CGTCATTGGAAGTGAAGCA	302	58.3
CGTCATTGGAAGTGAAGCA	302	58.3
CGTCATTGGAAGTGAAGCA	249	58.3
CGTCATTGGAAGTGAAGCA	417	58.3
CGTCATTGGAAGTGAAGCA	101	58.3
CGTCATTGGAAGTGAAGCA	157	58.3
ATCGTCATTGGAAGTGAAGC	298	57.72
CGTCATTGGAAGTGAAGCA	157	58.3
CGTCATTGGAAGTGAAGCA	222	58.3
AGCCGACGCAACTACCTCTG	976	59.09
TTCTGTGTGCTCTTGTTGTGTGA	4415	58.07
AGCCGACGCAACTACCTCTG	976	59.09
AGCCGACGCAACTACCTCTG	976	59.09
AGCCGACGCAACTACCTCTG	811	59.09
AGCCGACGCAACTACCTCTG	811	59.09
AGCCGACGCAACTACCTCTG	1225	59.09
CTGACCAAGCAGGATTGTGAT	984	56.32
TCGGATTGCTACTGTGTTGGT	576	56.82
TCGGATTGCTACTGTGTTGGT	576	56.82
CGCCAGCGTCAGATATGCTT	177	59.96
ATGGACACAATCGGTATGTATCTCA	277	58.33
GACGCCAGCACGCTTGTACT	436	60.04
AGAGAGGCTCCGATTGCTCATAG	563	59.95
AGAGAGGCTCCGATTGCTCATAG	269	59.95
GATGAACACTGAAGTTGGTGAGGA	44	59.13
TTCTTGAATCGGCTCACACTG	711	57.55
TGACTGTGGACAAGGTTAAGCTGGT	38	61.99
GGTGGTGGATGGAATAATGGA	87	58.03
GAGCACCGACCACCTGAGAA	1694	59.81
CGTCCATCACAACTTCAACTCTATC	482	57.9
ACGTGCGTATATAATGCCATCA	427	56.78
GAGCAATTGGAGCTCTGCAA	134	57.78
CGTTGTTAGCCGCAAGTAGTG	499	57.3
GCGGTGGTGGTAACAATGATG	370	59.69
TTGGAGGCCAGCAATCGTTC	85	61.97
CTGGCTCAAGACTGTCATCAAG	70	56.28
AGAAGGAGGCGGTGATGAAG	204	57.93

TTGGAGCAGGAGAAGAGCGA	1199	59.79
GCAAGCGAGTTAGAACCAAGTAG	475	56.32
CCTGTGGCAAGTAATACGGTCA	122	58.63
CCTGTGGCAAGTAATACGGTCA	122	58.63
TTATTCGGTTCGAGCACGGT	245	59.17
TTATTCGGTTCGAGCACGGT	262	59.17
GCTCCGAGCTCTCTCCACAA	70	59.26
AACCACCGACTGCAATTACAC	107	56.23
TGATGGATGTATTGGATGTTACTGAA	962	58.36
TGATGGATGTATTGGATGTTACTGAA	981	58.36
TGATGGATGTATTGGATGTTACTGAA	962	58.36
TGATGGATGTATTGGATGTTACTGAA	981	58.36
GGTGAAGAAGACGCCAACTGTA	73	57.99
AGAAGGCGTTGACTGCGATG	5232	59.98
TTCAATTCTTCTTATACGAAGTTAGC	750	56.36
GATCGAAGAGTGTGGCTGGT	365	56.33
GATCGAAGAGTGTGGCTGGT	365	56.33
GACTTGCTTCGCCGTCTGAA	30	60.09
CGAGAATGTGGCAGCAAGTG	165	59.03
ACAGGTATCAAGAGTCGGTGGA	543	57.26
CCTACGGCTTCTCCATTCAAC	57	57.42
TTCAATGTGGCAGAGAGTAGTATCAG	166	57.76
TTCAATGTGGCAGAGAGTAGTATCAG	175	57.76
TTCAATGTGGCAGAGAGTAGTATCAG	168	57.76
TGGACGACAATCAGCCTCTT	114	56.91
CTCAGATGTACTCACAGCTTCCAA	133	57.32
ATTGCTCAGTATCACACATTCAGTTC	244	57.5
CATCAACACTGAGACATTATTCAGAAGA	200	58.82
AATGACACTCAGCCTGCCTT	189	56.04
AATGACACTCAGCCTGCCTT	189	56.04
CCTCGACGACTGCTCATCTG	723	58.14
GCAATCAAGGACGATGACGAA	41	59.65
ATTGCTCCGCCATCTTCTGC	1501	61.19
G TTCAGCAGATTGTTACGGCACTC	1686	60.96
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GTTGCAGAACAATTGACTTCTTCG	153	58.96
CGCTGGAATGTTACAAGACA	128	58.36
GTTGCAGAACAATTGACTTCTTCG	153	58.96
CGCTGGAATGTTACAAGACA	128	58.36
ACGCAAGAGTTGATTGGCTT	795	56.18
AGAAGAGTGATGATGATGGTATTGATG	841	58.51
CGCCTCGTTCTCGAAGTCTT	342	58.28
GATTCACGGAGGTTATTGGCT	256	56.8
ACATCAGCAGAGACAAGTGGTG	964	56.5

GAAGATTGATCCGATTGAGGTTTC	3557	57.7
GAAGATTGATCCGATTGAGGTTTC	3557	57.7
GAAGATTGATCCGATTGAGGTTTC	3551	57.7
GAAGATTGATCCGATTGAGGTTTC	2983	57.7
GAAGATTGATCCGATTGAGGTTTC	2983	57.7
GAAGATTGATCCGATTGAGGTTTC	2977	57.7
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AGCAAGCTGCTCAAGCCGAT	503	61.12
AGCAAGCTGCTCAAGCCGAT	242	61.12
AGCAAGCTGCTCAAGCCGAT	194	61.12
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ACGAAGAGCACGCTATATTAAGCAAGA	515	61.61
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AACATTCATAACAAGAACGATCAAGTC	1411	57.87
AACATTCATAACAAGAACGATCAAGTC	113	57.87
TTGACGTATCTACCATCATTCTTGC	421	58.27
GACATCGACGACGAATTGTTTCG	91	61.35
AGGAAGCAACAATGAATCCACAT	219	58.5
TTGTCGTACATCACGAACTTGG	790	57.29
TTCCAGCTTCTCTATGCCAATG	378	58.08
TGCGTCAGAATACTGAAGATTACTG	244	57.82
TTGTTCTCTGGATGGTATTGACC	67	56.71
GACGACGTATGCCGATGGAT	336	59.37
GACGACGTATGCCGATGGAT	109	59.37
CGCTGGAATTCGTCATTATGC	467	59.16
ACTTCGACAGGCCTCGGATG	381	61.12
CCTTACCTCCGTCTTCTGTCC	113	56.49
CCTTACCTCCGTCTTCTGTCC	113	56.49
CCTTACCTCCGTCTTCTGTCC	170	56.49
CCGCAGCCAGTTATGACAGC	2063	60.37
CCGCAGCCAGTTATGACAGC	253	60.37
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AATGGCAGTCTTCGCAGGTC	749	58.88
CAATCTGGCTCATCTCCTACTGG	325	58.85
AACTGTTGTCCGTGGAGAAGG	504	57.76
AACTGTTGTCCGTGGAGAAGG	71	57.76
GCTTCCACTATTCCAATGAATCAAG	360	59.06
CTCTTCGACAGCCGTTGGAA	1043	59.95
CTCTTCGACAGCCGTTGGAA	630	59.95
ACTTCAGTTGCTCAGTATCACGAGA	103	58.29
GTGGATATGAACAAGTTGTGCAGAATG	433	61.66
GGATAAGATCATCACATCGTTCC	809	56.17

CACCATCATTCAAGCCTGTTC	1311	56.72
CGAGATGGTTGTTGAATGTGG	590	57.52
GGATACGGCAGGTCAGGAGA	217	58.69
CATCGAATTGGCAACGCTGT	51	60.6
CATCGAATTGGCAACGCTGT	110	60.6
ATGTGGCAGGTGGATGTGAC	640	57.79
CATCGAATTGGCAACGCTGT	110	60.6
GTGTACAGATGGTGTGTGCGAA	182	58.15
TCAAGGATAAGGAGAGGAAGGAG	33	56.83
TCTCATCCAGCATTCTCCGA	920	57.91
TTAGAGGCAATTCGTTCTGGA	182	56.23
TTGTTCAATCTGATCTATTCGGTCGT	170	60.95
TTGAAGGAGATTAGACAGCGATT	1943	56.03
ATCGGACTGGCGAGCTTCTG	828	61.38
TGTTGATGTGATGGATGCGA	784	57.99
GCCTCGTCGATAATCATCCA	105	57.17
CTGTGGAGCCGGAAGAAGTTC	378	59.82
TTGGCTTGTGACTGTGGAGA	448	56.35
TTGGCTGAATGTGTGAATGATG	739	58.08
CAATGTTTCGCAGTGGTGGAT	897	58.02
GGATCGTGTTGTTGACTATGATAGC	614	57.81
CGTGTTGTTGACTGTAATAGCGA	625	56.73
CATCGGAATTGAGTCGCAGA	295	58.39
ATGCTCCTTGGTCAGTTGCC	177	58.74
TTGAAGGTGGACAGGCAGGA	185	60.19
TTGATTGTGTCAGGCGTCAT	146	56.11
CTGGACGCGTTGACTGCTAT	719	57.59
CGATCCAATTCTCCATCGCA	219	60.51
ATCAGCATAATCCTCTTCAGCATC	186	57.59
ATCAGCATAATCCTCTTCAGCATC	185	57.59
CATCGCTAGTGTACCTCTGTTG	549	58.53
CAAGTGACGAAGGAGCAAGC	360	57.29
CAAGTGACGAAGGAGCAAGC	378	57.29
CAAGTGACGAAGGAGCAAGC	360	57.29
CAAGTGACGAAGGAGCAAGC	378	57.29
TCCGAAGAATGCGATGCCTA	96	60.26
AGACAAGCCTGCGATGATTC	1003	56.54
CAGGAATGATCTCGAAGATAAGTTCT	187	57.35
GAAGAAGAAGAAGAATGGAAGTGG	380	56.48
ATCACTTCTCGGATCACATTCTATG	318	57.39
GGTATCATCACTCGACACACATCC	1155	59.23
TGAGCGGAGAAGGAGTATGGA	836	58.48
ATCACCACCGTCGTCTGTCA	752	58.53
AATATGGAGGATATGACAATGGAGA	405	56.71

CTGGATGGACAAGTGAGCCT	3236	56.33
TGGAGGACGACACAGGAGAA	77	57.79
CGGCTTCCTCATACACCAGA	820	57.35
GCATATGTTCTGATCAAGTAACAAG	203	57.14
TCGGAATTGGTGTCACTACAAGA	157	58.23
CCAGGAACAACCACCACAGC	494	59.97
AGTACGACAGGAAGTAATGTGCTG	759	56.39
AATACTTCCTCCAATGACCGTGCT	1131	60.98
ATAACAGCCAATCTTCCGACTC	1001	56.14
GGATAACGGATCTCCAGTTCTATACAC	1529	58.51
ATAACAGCCAATCTTCCGACTC	1001	56.14
TATGACCATTGATTATGCCTACACC	1012	57.92
AATGTCCGTACCAGCCGATG	1135	59.4
AATGTCCGTACCAGCCGATG	1221	59.4
CGGTCTTACTGGATGTCTGTATCTTAC	538	57.58
CGGCTTCCTGTACCTTACCA	325	56.46
GCAATGTGTAATGATACTTGTGGAA	82	56.88
CCTCGTCCTCATCCTCATCC	263	58.06
AGCCTATTCGTCGCAGTGCT	359	58.71
ACGATTGTGGAGCTGAATGATG	481	58.66
CCGAGAACTCCTCCAACGAG	292	58.46
CCAGCCGGAAGATCACATTG	77	60.03
CGGATTGTGTCGGATGCTGT	480	60.49
TCTATTCAAGCAGAGGTTGTCTCG	381	58.7
GATGATGATGATGAGAAGGATGC	3666	57.16
CGTGGAAGTGGAAGTATCCGTAC	496	58.56
ATGCTGTGGTTGGAGTTGCG	665	60.66
ATGCTGTGGTTGGAGTTGCG	591	60.66
ATGCTGTGGTTGGAGTTGCG	930	60.66
ATGCTGTGGTTGGAGTTGCG	84	60.66
ATGCTGTGGTTGGAGTTGCG	774	60.66
ATGCTGTGGTTGGAGTTGCG	665	60.66
ATGCTGTGGTTGGAGTTGCG	789	60.66
ATGCTGTGGTTGGAGTTGCG	936	60.66
GCTGGCTGGCTGGAGAGAGT	171	60.64
AAGCAGGATGTTCCGAGGAT	492	57.27
AAGTCCAGCAGCAGCTCCAA	2117	59.72
GATGAGGAGGAGACCGATCAGAT	488	59.52
CTGCTGCTGATAATACATCGGTT	774	57.14
GGCGGAGGTAGTGGAGGATC	250	59.49
AGGAGGAGACTCGGCGTGAT	66	59.8
AGTCTATTGTCGTGGAGTCTGGTT	1146	57.05
CATATTGTGGCTCAATGGCTTG	851	59.08
CATATTGTGGCTCAATGGCTTG	851	59.08

AAGTTATTACGAGTTGCTGAGAGATG	690	56.34
AAGTTATTACGAGTTGCTGAGAGATG	1026	56.34
ACGAGTTGCTGAGAGATGCG	692	57.79
ACGAGTTGCTGAGAGATGCG	1028	57.79
GGAGCACAACAACAGCAGGA	601	58.45
GGAGCACAACAACAGCAGGA	601	58.45
TTGGTTATTCTGACGACGAGGT	1562	57.35
GGAGCACAACAACAGCAGGA	601	58.45
CGGTGATTACGGTCTGGAGT	1121	56.18
TGCTCCGCTTACAGACTTGAC	959	56.85
CAACTGTGCCACGTCGATTG	578	59.73
CAACTGTGCCACGTCGATTG	578	59.73
CTGAAGACTGCGACGATGATG	91	58.06
ATGTTACCGTTGGAGAGGA	146	56.59
GGCGGCTCTCGTTGATACTC	627	58.49
GGTCCACTGGATCACGCAA	309	60.47
TGCCAGAACCATTAGAACAAGA	76	56.16
CCACAATCAACATGAACAACACC	30	58.72
TAATGACAAGCGATCACCAGTC	1303	56.45
GGCAGCAATGAAGAGGCAATG	179	61.57
TATGATTGAGCAGACGATCC	1440	56.46
CGGAGGTAGTGAGGAGCTG	221	58.49
TGATTATGGATCTTCTGATGCCT	495	56.47
TTATGTGTTCACTGTAGATGCTCAGC	61	58.58
CCAACGGCATTAACTACGACTC	278	57.46
TTATAGCCAACCTCCGCAAT	381	56.03
CGAGAATAAGCAAGACGCCAT	5252	58.1
GCTCGATCAGCTACCGATC	243	59.5
TCTGAAGTTCTGGATCACATGGATA	82	58.63
ACCACCATTTCGTAGCGGAGT	833	58.13
CCACCATTGCTCTTCACATCG	681	60.08
ATCTTATGAGAGATATGGCTCTGATG	122	56.04
ATCTTATGAGAGATATGGCTCTGATG	122	56.04
GCACCACACAACCTTATCCAC	117	56.5
TGGATGACTGGACGTTAGACGACTA	221	60.84
CAGGTTGTGATGGTTGACGA	620	56.49
GTCAGAAGCCTGCTGGCAATC	46	60.86
AACGAGTTGATTCAGTGATCTGTACT	130	56.4
ATAGGTCTTGGTCATTCAGTTGCG	332	60.34
GGCCACTGTGAGATTGGTACTAG	382	56.57
GCATTATTAGTCTGGTCAAGGTGTT	863	56.67
TTCAACTAATGGACTTGCGGAAT	273	58.67
CAGACGACGATGGTAAGATGATG	339	58.2
GCCACGATTTCGGAACCTCCAC	740	61.36

GCTTGTTATGGAATATCAGTTGCC	324	57.81
TTATATATCGGTACTTGGCAGCCT	364	57.15
GCACAAGAATTGAGTGATATTGAGA	67	56.33
CAGCCAGATGATGTTGAGACC	1176	56.77
CAGCCAGATGATGTTGAGACC	951	56.77
CAGCCAGATGATGTTGAGACC	987	56.77
CTGTGGAGAATGTGCGGATG	55	58.68
TGTGAGCATTCCGCAGATGT	55	58.83
TGTGAGCATTCCGCAGATGT	65	58.83
CAACTGTACCACCTATAATGGAACC	99	56.77
AAGACGAAGAAGCAGTTGTGGTG	30	59.44
CTGAACTCGCTGATATGGATGG	1694	58.28
CAATGTGCTCGACTTGCCAA	488	59.42
CGTGGAATATGCGTATTGTTCA	318	57.23
CTCGTGACAGCAGAATCGGA	501	58.55
CCTGTTGGCGACAATTCTTC	246	56.86
TGGATCCGGATAGTCTCTACTCG	178	58.36
CACCGGATGTCGTTGTCAAC	222	58.42
TGATAGCAGAGTCGGAGGAAGTC	264	58.61
GAGTCGGAGAGCACCAAGAATC	531	58.93
AATGTTGGAAGTTCTGCGTCA	1742	56.94
GGAAGCCGAGAAGGAGTTGG	2156	59.77
GGAAGCCGAGAAGGAGTTGG	1794	59.77
GAGTGTCTATGAGTCGGCGTGT	602	57.95
GGAAGCCGAGAAGGAGTTGG	1195	59.77
GGAAGCCGAGAAGGAGTTGG	2156	59.77
TTCCACCACTCAACAAGCCA	188	58.7
TCTGACGGTGAGACTGCTGTT	27	57.11
AACCGCCAGAGATTCCGAGA	960	60.67
AATTCATTATGGATGAGGATGTCTG	1345	57.91
ATTCGTACAATAATGTTGCGTGGA	151	59.3
ATTGCTGATTATTGGAGATTCCGG	78	58.16
GCCGAACAGAAGAAGAGTGAAG	3077	56.98
GCCGAACAGAAGAAGAGTGAAG	3245	56.98
GCCGAACAGAAGAAGAGTGAAG	632	56.98
CAATGGAAGAAGATGTGGTGAA	123	56.27
CGGCATCTGGAGAAGAATAGC	255	57.65
CATTATCCACAGAAGACGCCAT	689	57.69
GCAACACAACGAGCCTATCATC	3478	58.33
GCAACACAACGAGCCTATCATC	3478	58.33
TAGTTCGCTTAGTGTTGGCA	262	57.22
GCTTCAGCTCATTCTTCCGTT	65	57.31
GAACAAGTACGCCAGCAACG	450	58.04
AAGGAGCAATTGTATGAGTCATTG	108	56.21

AAGGAGCAATTGTATGAGTCATTG	213	56.21
AAGGAGCAATTGTATGAGTCATTG	96	56.21
AAGGAGCAATTGTATGAGTCATTG	159	56.21
CTGTTCAACGAAGGCACTACC	517	56.11
GGTTATTATGTTGCCAGAGGATG	603	56.39
AAGTCTCGGTTCGTGATAGCC	940	57.05
AATGTTGAGACGGATGAGATTAAGAAG	2964	59.14
ATGTCGTTGGAAGTCGTGTAACCTA	796	59.17
CAAGGATCTTGCCGATGGAA	452	59.59
GGAGATGTCCGTTGTGCCAAT	1125	60.7
GCAGTAATCAGAGAGCAAGCACCA	28	61.68
GGACCTTAGGACCTAGGTTAGGC	47	57.49
GGCTGGCGACCAGATGTATC	130	59.1
TTAAGGAGAGAAGCTACCGAAGTCG	61	60.32
CTTCTACACCTACTTCTACTCTCCTTCA	602	56.22
TTGGTGATAGTTCGAAGCTCCA	180	58.44
GGAGCAGATTCTGTGTCAATATACC	858	56.99
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CCAGAACAGCACTCGGAAGA	804	57.61
GCCCACTCCTCGCCTTAC	133	61.71
AGATGAGGATGATGAGGATAGTGAT	1009	56
CGGAAGGAAGAAGTCGCATC	559	58.47
GCCTTCCTGGTTGTCCTTGC	44	60.57
TCAGCGATAACGAGGTAGCAT	272	56.28
CGGAGCTGGAGCATCTTCAG	494	59.67
CGTTGAGACTTCCGCTTCCG	892	61.75
CAGAGTTATGCGGCGTTACC	971	57.02
CAGAGTTATGCGGCGTTACC	1010	57.02
AATCTGCACCAGCAGCTCAA	1227	58.2
ATACAAGGTGATTCTACAACGGATG	786	57.28
CCAAGAACATCACTGTTCCAGA	332	56.37
CCTCGGATGGTTGGCTAACTC	67	59.54
CGGCAACAGCTATGGATTACAC	623	58.27
TTACTGGTGCTGCTTCAACATC	260	56.67
ATGTTGATCGAGAGATCATTCAGTG	25	58.28
ACTGCGGTGTTGTTGATTGTC	78	57.18
GAGGATAACGCCGAGAAGA	248	59.01
TGAATCTGAATCAGCTACCAAGTGC	254	59.39
CAGAAGCAACTCGTCAGCAA	521	56.39
CAGAAGCAACTCGTCAGCAA	690	56.39
ATTATGAGCCGATGTCCAGCA	529	59.14
ATTATGAGCCGATGTCCAGCA	529	59.14
AAGGAGAAGAAGGATAAGATATTGGA	140	56.15
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TTCTCAGCGATTCTTATGTGGA	105	56.24
CGGTTCAAGGCTCTTGTTCTGT	62	58.92
GACGAATCACAACCTGGAGCACA	1897	59.74
ACTGGTCATCGTCTGCTGGT	1320	56.73
TGCTGTGATGCTTCTGACTGG	2885	58.61
ACTGGTCATCGTCTGCTGGT	1353	56.73
AAGTGCTGACGAGGATACGATG	1639	57.96
CTACATCGTCGTCGGCATCT	39	57.38
AATGCGTGGTATGCTCGGTT	670	59.06
CGAATCAGCAGAATCAGCCAA	687	59.92
TGGTGACAGAGAGAATGGAGAGA	2112	57.58
GATTACGACCAGCAAGCCGAA	866	61.05
GCTCGGAAGAATGTATGGAACA	1116	57.81
GCTCGGAAGAATGTATGGAACA	1116	57.81
GATGATGTTGGATTCCACTCG	381	56.5
CCAGGAGATGAGATTGCCACA	570	59.64
AAGCAGTTATTAGTTCGCCGAA	1116	56.97
CCAGGAGATGAGATTGCCACA	570	59.64
CGGTCCTGATCGTTCTGGTA	1286	57.2
GAGTCATTGTAACCAACATTCATCG	586	58.48
CGGTCCTGATCGTTCTGGTA	1409	57.2
TACATCTGGTCAAGACGAGACAACA	604	59.68
CTGAGAATGAGAATACGGCGAA	4170	58.08
GTTTCGTTTCAGCGATTCCATT	147	56.35
GTTTCGTTTCAGCGATTCCATT	134	56.35
ATGAGCAATAGTATGAGCAGCCT	122	56.08
TATGGCATCAACTCCAATATCG	391	56.3
CAACGGAGCCAGTGACGAAG	1527	60.39
GTTACAGTCAGCGTCGTTGGA	851	57.49
AGAAGGCGAATCCAGAATGC	315	57.95
TCTCCTCCGTATGTGTGTGTGTG	301	59.52
CTACGATTCTGATCGTCACTGTCT	73	56.32
CCTAGTCATCATTCAACTTGGCTT	97	57.56
ATGACAAGATATTATCACGGAATGTG	297	57.19
TCGGCTGTGTTGTTGGATGA	92	59.66
CTCCGATTCCGCCAAGAAGA	171	61.15
TAAGAATGGATTATTATGTGAATATGCC	757	56.98
AAGGACACACTAACGGAACTGAA	1214	56.6
AAGGACACACTAACGGAACTGAA	1267	56.6
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TATCTGCCGACACTGACCATC	1365	57.21
GAGATGAAGGCGTTCTTCGGAA	128	61.47
TGATGATGACGATGAGAAGGCT	519	58.35
CAAGAAGATGGATCGACTACGGA	529	59.21

CCTGTTCTCACTCCTCACTCAATG	880	58.9
GAGAGAATCATCGGAAGTTGGC	48	58.78
AAGTATGGATTGCTGATTCGATGTTG	689	61.26
CGGTGTTACAGCGGAGATC	482	60.23
CCGTGTGCTGTATTCTGGTCA	503	58.24
GGTTCACAGTGTGTTGTATTCCG	499	58.02
ATACTCTCCACTGCCGCTGA	40	57.1
TTGGATGGTTGGATTGCGATT	724	56.38
ATAGATCGATGGCGAGGATG	38	56.25
CATTGAGTCTGGCGGCATTC	648	60.18
ATGAGGAAGGAAGAGGAGCAGTT	429	58.54
TTACTGGATGAAGAGATAGCGATAGATG	179	59.26
CGATGAACCACACGAGAACTC	3212	56.83
GGACAACAGAACCACAAGGAGA	131	57.75
GGACAACAGAACCACAAGGAGA	131	57.75
GTTGTTGTTGTTGTGTATGTGTGTG	249	56.63
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AGTAGTGTTGTTGTGTAAAGCAAGCA	408	59.09
ATTGAAGACCTGAAGCGAGCAT	47	58.98
CCGTATAACACTGTCAAGAGAGC	1081	58.1
CATGACGGTGAATCGCATCG	1894	61.96
GGCGATTATATGTTCTGTGTTCA	121	56.35
GGCGATTATATGTTCTGTGTTCA	337	56.35
CGTGTGACGAGGAAGTTGACA	229	58.36
CGTGTGACGAGGAAGTTGACA	253	58.36
AAGCATCTCTACAAGCAGTACGTCAGA	35	60.74
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GAGCAGCATAATCGGAATACG	312	56.19
GAGCAGCATAATCGGAATACG	125	56.19
GAGCAGCATAATCGGAATACG	366	56.19
GAGCAGCATAATCGGAATACG	319	56.19
GGACGAGACCAAGATCAACG	634	56.75
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AACAAGTGCAGATGACAGTTATCG	2728	57.15
CGATTGTAGCAGAAGAGGAAGAGG	598	59.52
CGATTGTAGCAGAAGAGGAAGAGG	394	59.52
CGATTGTAGCAGAAGAGGAAGAGG	228	59.52
GACTCTTGCCGCTTCGGATA	836	59.01
CTTGGAACAGAGATACTTGCCAA	195	57.2
ATGATGGTGGAGGCTATGGTG	99	58.33
GCACCAACCACCGAGAAGGA	98	61.93
CGTCTACTCTGTCTGCGTCTTCG	46	60.19
TATACGAGGCGAATCGAAGGA	105	58.41
CATTGAAGAGTTGGAGTATTGGAGA	516	57.55

CATTGAAGAGTTGGAGTATTGGAGA	686	57.55
CACGCCGAGATGACTGCTAT	237	57.54
TCTTGATTGGAGGTGATGCC	1095	57.1
CGGAGTAGTTGATGACGATGAGC	391	59.74
TGAATGGAATCTCTGTGTTGATGA	131	58.17
AGTGATCATGCGAGCGGTTA	292	57.93
GACGACCACCGACACGACTA	107	58.16
GACATGTTCAATGCTATTCTGAGACT	695	56.82
GACATGTTCAATGCTATTCTGAGACT	581	56.82
CGATGAGACAACTGATGACACAA	169	57.33
TTGAATAAGAATGAACGGCAGA	451	56.22
CTCTGCCTGCTGGATATACTGTAC	1468	56.02
AATCAGAATGCGTATCGGTTG	931	56.37
AATCAGAATGCGTATCGGTTG	1061	56.37
GACGAGTATGATTATGATTCTTCTGACG	166	59.47
TGAGCCAAGACGATGGAGCA	21	61.44
TCGGATGGTTCCTGGAGTTG	197	59.48
GGCCAGTGTACATCGATTCCG	27	61.2
CCACATACACACATCTTGACACC	40	56.45
CAAGAGAACTAAGAAGGTCGGAATC	44	57.77
CAAGAGAACTAAGAAGGTCGGAATC	44	57.77
AATGATGGCGAGTGCTGAAC	48	57.35
GGTATTCTCGTGTAGCTCAGTGC	85	56.85
GGAGAGTCGACGAGGCAGAT	98	58.02
TCAAGCGAAGACAGCAGGAT	1246	57.23
CGCAAGTCTCATCATCGTCA	1122	56.92
GCCTCCAGCAATCTTCTCGT	325	58.08
ATGGAATCTCTCGTTCAGAAGCAAGT	566	61.62
ATGGAATCTCTCGTTCAGAAGCAAGT	713	61.62
TCCACAACCTTCTGGAGATGATTC	181	56.87
CAGACTCATATTGCGTTGAAGGA	227	58.01
TGGAGAAGAGTCAAGGATACAGAGT	1829	56.47
TCATAACACAACCTGCTGGCTACA	1526	57.15
TCCAGCTCTGTGATAGATTCGG	503	58.03
TTCACTTCGCCGAGTGCTAA	41	58.26
TGCTCACAATCACAACACTCTCA	144	58.02
GTGGTGGTCAAGCATCGTCT	1748	57.16
AATGGTCTCGGCACGCTAAC	218	58.8
TTCTGCTTCAACAATCCACCA	2109	57.8
TTCTGCTTCAACAATCCACCA	629	57.8
TTCTGCTTCAACAATCCACCA	1701	57.8
TTCTGCTTCAACAATCCACCA	110	57.8
ATAAGGCGAGAAGTGGTGGAGA	227	58.84
CGGTTATGTGGAGAAGGTGGAGA	274	61.15

CGGTTATGTGGAGAAGGTGGAGA	274	61.15
CGGTTATGTGGAGAAGGTGGAGA	274	61.15
CGGTTATGTGGAGAAGGTGGAGA	274	61.15
CCGACAACATTGAGGAGGCA	70	60.6
GATGAAGCTCGTCTCAAGGCA	114	59.16
GGAGTTGTAAACGTAGCCTGTCG	91	58.86
AAGATGTCTACCACAATCACCGT	685	56.28
CTTGCCGTATATATTCCGTACAAGT	118	56.72
GCAGACAATGGATCAAGGACAA	59	58.63
TCGTCATCTCCGTTGTGTATCTC	228	57.8
TCGTCATCTCCGTTGTGTATCTC	228	57.8
TCGTCATCTCCGTTGTGTATCTC	87	57.8
GCGGCTCTCATCCACGAATC	2260	61.61
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AGTGATTGAGCAGCAGCAGCA	289	60.84
CAATCCGATGAGTAATCCACCA	648	58.37
GCAACACCACATGCAATGCT	223	59.16
CCAGGAGTTCTTCGCTTCGG	343	60.82
CCAGGAGTTCTTCGCTTCGG	495	60.82
GTGAAGAAGGTGGATGATGAGG	3628	57.18
TACGATGGCCGAGTACAAGTTCT	74	58.82
GGAGGTGTTGGAGAAGAAGCT	188	56.21
TGAGCTGGTTAATCAGGCGAT	757	58.41
CATTCCGATTGCTCCATCTG	443	57.7
TGTCTTCATCAACAACATATCTACTGA	119	57.19
ATTGCGGAGAGCCTCGTTGA	1315	61.74
ATTGCGGAGAGCCTCGTTGA	792	61.74
CGAGGAGAGGATGAACTGGA	748	56.4
CGAGAAGGCTGGATTGTTGG	1399	59.26
TTCTGCTCAATGTCAATGTATGC	209	56.58
CTCTCTACATCGTCTCCTGGACACT	122	58.97
GATTCGACACTTGAACGTATTCC	146	56.44
CGAAGCAGCATCTTCGAGAA	624	57.93
TAATTCCGCCGAGGCTGAGA	653	61.64
TAATTCCGCCGAGGCTGAGA	651	61.64
TGGAATCATCGGATGGTGGT	701	61.09
CGGTAATGTTCTGGATTGTC	514	58.56
CGCCACGGAAGTAGTAATGTC	119	56.05
CGCCACGGAAGTAGTAATGTC	314	56.05
AAGAGGATTCGCAGCAGGTG	405	59.02
TCTACTAGCGGCTGTGGTTCAG	109	58.29
TCTACTAGCGGCTGTGGTTCAG	109	58.29
AAGACGCAGACGACGAGAAG	80	56.88
ATTGAAGAGGAAGAACAGCAGGATT	1774	59.63

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ATTGAAGAGGAAGAACAGCAGGATT	754	59.63
AGACGCAGACGACGAGAAGA	20	57.35
AAGACGCAGACGACGAGAAG	72	56.88
TATGGAAGATATGGAGCCGAGA	149	57.41
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CGATGACGTCACGCTACAGTA	61	56.11
GAGCTGTTGGAAGAGGTGGTG	404	58.38
GAGCTGTTGGAAGAGGTGGTG	404	58.38
GAGCTGTTGGAAGAGGTGGTG	431	58.38
TAACCAATCAGGATAAGCCACAC	750	56.84
TAACCAATCAGGATAAGCCACAC	364	56.84
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CTCAATCGGTGTTGGAGAAGG	697	58.24
TTGCTGATGGAAGTGAACCG	113	58.3
GAGGAGAGGCTGTAGAAGAAGACG	148	58.84
AAGTGCAGCTTCTACCACACG	2707	56.79
GTCGCCAGAAGCACTATGAAG	112	56.35
TGGAAGTCTGTACACTCCACTCATG	244	59.2
GTCGAAGGAGGAATTGACAGC	1349	57.46
CGAATCCAAGTCAGCAGAGC	487	57.23
AACGGATTATTGCCATTGGAA	516	57.92
CCGAGCAAGGAGAGAAGGCA	1436	61.48
CCGAGCAAGGAGAGAAGGCA	1425	61.48
GATGAGAGAGTTTCGGAGTTGGA	1693	57.06
GAGAATGGACAGTTGGCTGAGGA	4817	61.44
GTGGCGATGGTGTGAAGCAGT	193	62
TTGGATTCCGTGGTCTACCG	3000	59.37
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GGACACTCGGCGTTATTCGT	860	58.66
CGTGGTTGCTCTTCTTGAT	234	56.46
ATTCATTATCACCAAGACCACATTCC	75	60.15
CCATATTACTGTCAAGGCGGAA	880	57.76
TTGGCTTCAAGTACAAGTTATTCAGA	454	57.42
TAGTTGCTGGCTTCCTTGTCG	101	59.1
CGTAATGCGAATCAGGAGGA	372	57.38
CGTAATGCGAATCAGGAGGA	545	57.38
CGTAATGCGAATCAGGAGGA	545	57.38
ATGGAAGCACCTGAAGGATGT	21	57.19
GAATACCGATTGATCCGCAA	50	57.11
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GTCAGAGAATACTAGCACCAATCCT	3243	56.03
GTCAGAGAATACTAGCACCAATCCT	3258	56.03
TTGGAGTGTGAGCAGTGTGG	620	56.78
AACCACCGCAGAGGCTTACC	687	60.08
AACCACCGCAGAGGCTTACC	651	60.08
ATTCGTGGAGCATCGGAAGC	350	61.06
GAACTGTGCTCATTATTGCTCATC	1979	56.74
GAACTGTGCTCATTATTGCTCATC	1582	56.74
GAACTGTGCTCATTATTGCTCATC	1556	56.74
GAACTGTGCTCATTATTGCTCATC	301	56.74
CAGGAGGAGGTGGTGGAGGT	90	59.93
CGGTTCGTGTCGTCTCGTTC	155	60.26
CGGTTCGTGTCGTCTCGTTC	192	60.26
CGGTTCGTGTCGTCTCGTTC	269	60.26
GATGGTTCGGTTGCTCTATGG	300	58.13
CGGTTCGTGTCGTCTCGTTC	192	60.26
CGGTTCGTGTCGTCTCGTTC	269	60.26
CGGTTCGTGTCGTCTCGTTC	157	60.26
CGGTTCGTGTCGTCTCGTTC	121	60.26
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AATTCCTTGTTGTGTTGAAGCC	60	56.9
CTCAATGATCGCCGCCTCAT	54	61.97
CAGAGTTATTGTCAGGCGGAA	2533	56.59
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CAGAGTTATTGTCAGGCGGAA	1402	56.59
CAGAGTTATTGTCAGGCGGAA	1131	56.59
CAGAGTTATTGTCAGGCGGAA	112	56.59
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TTGGACGATGAGAGATGGAATG	769	58.58
TTGGACGATGAGAGATGGAATG	175	58.58
CCGCTGGAGAAGTTGGAGTG	317	59.42
ACTCTCAGTTCGCCTATGAGCAGTT	124	60.72
GGAATTACAGTGTGAGCGATGA	460	56.45
GCTCCGCAGAAGAACATACCGT	417	61.42
GCTCCGCAGAAGAACATACCGT	335	61.42
GATTCTCCGCTGGTTATTCCT	571	56.07
GATTCTCCGCTGGTTATTCCT	571	56.07
CACTCGCCATAGCCAACAAG	369	57.99
ACTCGGTCTCTAGTGGAAGTGC	404	56.32
TTATGTGAAGGAGCTGTGTGGTT	229	57.42
CGTGTGATGAGGATGGAAGG	921	57.52
TCGGATCTGTGAGAATCGAGTTC	242	59.3
AAGACAAGCTCGCGGAGCTC	185	60.75
CGACGAGGATGATACGATGG	5579	57.57

CGACAGGCGAGAGAAGAGAG	1564	56.53
ATAATCATTATACGCTGCGTACTTCTAG	467	56.85
GTCGACGTCGTGACACTGTAGA	111	57.47
CGGAATTATCATCAATATGTCGTC	514	56.31
GAAGAAGGTCCTCCAACAACG	1050	57.37
AAGATGGCTGATGAGAAGAACCG	544	60.54
ATCGCCTGCCTAATCTCCGT	604	59.65
ATGATGGCTGACTCTACCTCTCG	1031	58.5
ATGATGGCTGACTCTACCTCTCG	1025	58.5
GCTCTCTTCCACATCTTCCGCTT	123	61.94
AATTGAACATATGGACTTGAGCAA	768	56.57
TGATTGTGCAGATAGAGCCAAT	279	56.11
TTCCACAGAATCATTCCAGAGTT	259	56.45
AACTCCACATCGAACAGATCCTAA	51	57.84
TTGGATGTGCCATTAATAAGTGTT	505	56.43
CATTATTCCTGCGGTGTGTG	694	56.12
AGAGTCTTGTGCAGCCAGTGA	310	57.27
CAACTCATCAACTGGTGAAGAGC	640	57.6
TCGCAGTATTCAACTTGATCTATTCAGT	167	59.61
GGACACATTGACGGAACGAG	152	57.58
GGACACATTGACGGAACGAG	610	57.58
GGACACATTGACGGAACGAG	192	57.58
GGACACATTGACGGAACGAG	152	57.58
GGACACATTGACGGAACGAG	610	57.58
GGACACATTGACGGAACGAG	192	57.58
TGTCGCCAATCTATTCAATCG	1379	57.34
TCAGCGGAACAGTTGAAGGAA	1152	59.43
TCAGCGGAACAGTTGAAGGAA	1135	59.43
TTGACCGAAGAATCCGATGAGA	87	60.51
CGACGAGTATTCTGGAAGTGTTG	1431	57.56
CGACGAGTATTCTGGAAGTGTTG	1390	57.56
CGACGAGTATTCTGGAAGTGTTG	1431	57.56
CGACGAGTATTCTGGAAGTGTTG	1390	57.56
CGACGAGTATTCTGGAAGTGTTG	1431	57.56
CGACGAGTATTCTGGAAGTGTTG	1390	57.56
AACGACAATTGCACATATGCTCAC	369	59.9
AACGACAATTGCACATATGCTCAC	400	59.9
CATGATGGATGTGACTATTGATCC	299	56.92
TCAGCCTGTGAACCTCATCTTC	209	57.99
GGACAGAAGGAGCAGCTCAA	418	56.79
GGACAGAAGGAGCAGCTCAA	86	56.79
TTCCGCAGCAATCTCAGCTC	77	60.2
GCATGACGTACCAGATTCTCCA	461	58.66
ATGTCGGAAGTATTGACTCATTGAG	353	57.44

GTTCCACACATTCTCCGCAA	822	61.74
ATTGCGACTACGAGACGGCTT	1230	59.87
GCTTGTCACCTGGTCTTATCGC	1482	57.63
CACTGCAAGAACGCCTCGAA	27	61.04
CACTGCAAGAACGCCTCGAA	27	61.04
AATGGAAGAAGACGTAGTGGAGTC	84	56.7
AATGGAAGAAGACGTAGTGGAGTC	84	56.7
CAGAAGTATGATGTCCGTGGATG	1134	58.06
GGCGGTACAATTGAAGGATATGTTAC	128	59.86
GAGCCAGCGTGTGGATTCTC	206	59.39
ATAATCCGTTGCCGTGTCTG	288	57.17
GGATCAGATGATTGGACAAGGAT	109	57.88
CGATTCCTTCATTATCTCTTCT	90	56.05
TCATCAGCTCGTTATGGAAGGAT	768	58.72
GCAGGACCGGATCAATTAGG	40	58.07
CGTGGTGTGGACACTGTCAGAA	616	60.61
AGGACTTCAAGACTGATCTCCGCTT	261	61.77
AGGACTTCAAGACTGATCTCCGCTT	268	61.77
CCGGTATGCCTCAGTTGGAA	191	59.51
GATCTTGGAGGATTCAACTGGTT	2171	57.26
CGATGTATGCGGATAACACG	831	56.22
CGATGTATGCGGATAACACG	831	56.22
AATCGGACTCATTCTACATGAACCAA	825	60.84
CGTTGATGATGATCCGAAGAC	97	56.66
TTATGTAGTACTGTCAATTCATGCCA	98	59.69
ATCGTGATGCTCGTCCAGAG	755	57.42
ACTAAGTGCTGAGACTGATATGGTTC	76	56.1
CGTTCAAGGCATAACTTCGCA	444	59.84
GACCTTGAAGCTCCGATCTG	187	56.11
GATCCATTGGCTCATTATCGTC	487	57.12
AAGGCACTGGATAATGTAACGAA	62	56.58
TCGTGATAGAGATCGTGATAATCGG	1178	60.27
CGAATTGACGACGGACTTGG	101	60.06
GCAGCTGAACAGCTCAGGAA	23	57.92
ACCGTTGAATGCTCCGATGT	742	59
TTGAACAGTTGAAGAAGATTACGG	569	56.39
TTGAACAGTTGAAGAAGATTACGG	571	56.39
CTGTAGTGGCGGCTCTTCTC	51	56.37
TTCTGATGTGGTTCTAGCGGT	459	57.49
TCCTGGAGGTTCTGTACGGA	646	56.76
TTCCGATGTGATTCTTGCAGT	371	56.88
GCACGATGAAGTTGAAGACGA	1031	57.55
AGATTGTTGCGAGACTTGCG	161	57.72
CGCTACCAAGAGGAGCATCG	199	59.56

TTGAGTACAGTGGATGTGGAGGA	192	58.17
GAACGGACGTGTCACGGAGT	143	59.59
GAACGGACGTGTCACGGAGT	208	59.59
GCGAGAGAGAGCAACAATGC	180	57.38
TGGCAGCGAGTCTACCGATT	2791	59.43
TTCTCAAGAGTTGTTCCACCAGA	660	57.57
TGGCAGCGAGTCTACCGATT	2708	59.43
TGGCAGCGAGTCTACCGATT	2797	59.43
AACGAGACTATGCGATTGGAA	322	56.1
CAATAAGAGTGGTGGTGCTGGA	206	58.7
AAGAGCATCATCCAGAGCGA	779	57.16
GTTGTATCCAGAATATAGAGATCACTGC	242	56.86
GCAAGAATTATGGAAGAACAACG	483	56.69
CTTCCGTTTCAGATTTCGTATGTG	907	56.04
CTTCCGTTTCAGATTTCGTATGTG	768	56.04
TTCAACACATTATCAGTCGGCTT	41	57.44
GCCGCTCAGTCAATGTGGAT	357	59.66
TGAACCAGTACGACCTGATGAGC	677	60.13
ATGAAGATGCTGCCACAGACAA	452	59.33
AAGGAGTGCGGAGGAATGTC	143	57.79
AAGGAGTGCGGAGGAATGTC	143	57.79
GGAGGTACTTAATGTGGTGCCTA	1892	56.09
GGAGGTACTTAATGTGGTGCCTA	1405	56.09
AACTGTGCAGAAGTACCATGTGG	334	57.79
CATTGATGTGCCTTGTTGTCA	52	56.63
CCAGTGATGATGTAGACGCAGAC	73	58.34
TTGGAGGCTAGGAATGATCCG	471	59.99
CATGATTCTCATCAATTACGTACTCC	27	56.96
CGCCGAGCAAGAGTCATTAC	914	61.78
ATGTGGAGGATCTTGACGTGA	80	56.61
TGATGAGAATAGCGATGATAATGGA	207	58.64
ATTCTCCTGGACCTCCTGGA	57	57.15
TTACACAGACAAGGAAGAGCTATTCTG	85	59.06
TCCGCTGCACTAGCATTGGTT	522	61.6
AGCTCGACGGCACTTATCTACA	997	57.8
TTGGATTGGCTAGATGGCATG	888	59.5
AAGAGATTGCTGATGGTAATGGAA	814	57.85
TTCACGATGAGAATCAGAATGCC	643	60.04
TTCACGATGAGAATCAGAATGCC	448	60.04
TTCGCTTCTTGATGTGGAAT	1055	58.25
GCTGGTGGATTCAAGTCAAGTG	523	58.3
TCGGAGGAGTTCTGTGGTGGA	608	61.55
CAGAGAATAGCGTTGTTGGATG	1369	56.19
ATTGCATTGCTCTCCAGGAG	73	56.55

CCAGACGGAGTGAAGGAGGA	52	58.82
TTGATGACGTGGATCTGTGG	1600	56.42
GAGGAATGGCACACGAGGAG	59	59.24
TGGTTCCGCTGATTCTTCTG	39	57.48
GAAGAGAACTGAACGAGAACGG	444	56.83
GGTTCGATTCTTCCAACGTCT	1052	56.87
GATACGGATCACGAGGATTCTG	64	57.24
CGCTTGGAATTATGGCTGAA	546	57.47
GACAACGAGAACGACTGGCA	218	58.45
CGGTTGTTGCAGGATTCGTT	890	59.56
TTCGGATTCAACGCCAGAGG	1572	61.95
TGGATGAGCAGCAAGAGGTT	982	57.07
AATTGATTGTCCTGAAGCTGAGG	772	58.39
GATCTGGAGCGGCTGAGACA	425	60.07
ACGCTTAACAGCTACGTCACTTC	101	56.65
TAGAGGTGGAGAATTGGATCCGAAT	42	61.96
ACGCTTAACAGCTACGTCACTTC	101	56.65
TCTATCACTGGAGACTTCACTCTGC	1542	57.86
GAGCGGTTACGGTTATTATGTTATGATG	40	60.85
CTGATGAAGCTGCCAAGCAA	276	58.89
AACAAGTACGCCAACAATCCA	165	56.77
AGATTGGAGATGGAGAGACTGG	1327	56.01
AGATTGGAGATGGAGAGACTGG	1148	56.01
AGATTGGAGATGGAGAGACTGG	1148	56.01
GATGAAGCTGCTGGCAAGAC	273	57.22
ATGATGCTCGGCTGGTTCTC	669	58.84
TTATGAAGCCATTGATGCCATT	614	58.07
GGACAGAATATTGGAATTATGTCGA	487	57.23
GCACAAGCTGGAAGAGGTGGA	75	61.27
GGTAGGCAAGTGTCTCATGTGTT	218	56.9
AAGGAACAAGAGCTATTCGAGGAT	128	57.73
GCAGGTCAGACTCCAAGTATC	84	56.57
ATCCAAGTCTCCAAGTCTC	264	58
GATGACTCAGATGACTCAGATGTTG	200	56.57
TTGGTGAAGTTATACACGACGGT	90	57.25
TTGCTGGAATTGTTGATAGGTG	350	56.42
TGTCCGTCCGATTGGATGAC	245	60.29
TTATAGTACATTCGGACGATTCTGC	290	57.56
CGTGCGATGCGACTACTTGA	265	59.59
GGATGCGTTCCTATGAATTGC	396	58.14
GCCGGATGTACTGCTCTCTC	142	56.13
GGTATTACTGTAAGTGGCGGAGA	98	56.23
TCTACCGCCTCCAATTATACC	66	58.94
GATGTGAAGATCAAGCTGTATGAGG	201	57.98

GATGTGAAGATCAAGCTGTATGAGG	129	57.98
CCTGCTAGTAATGTACTTGTCAAGATGT	181	57.39
CCTGCTAGTAATGTACTTGTCAAGATGT	182	57.39
GATTCCACTGCTGACACCGT	811	57.16
ATTGCGAATGTCTTGAGAGGAT	790	59.92
ATTGCGAATGTCTTGAGAGGAT	850	59.92
CTCGTCATCTTCCTCATCGC	79	57.01
CTCGTCATCTTCCTCATCGC	79	57.01
GAAGGAATCTATGGAGTTGAGGCA	2786	59.58
GAAGGAATCTATGGAGTTGAGGCA	2786	59.58
GAAGGAATCTATGGAGTTGAGGCA	2568	59.58
AATGTCACAGATCCGATGCTC	862	56.24
AGTGGTCTTGTGATTATTGTGCTC	1358	56.15
CTCTCCGTCGCAACACCAA	2056	60.77
CTCTCCGTCGCAACACCAA	2056	60.77
CTCTCCGTCGCAACACCAA	2056	60.77
GGACTGTCATGGATTCTCTGGA	1357	57.63
CTCTCCGTCGCAACACCAA	2056	60.77
CTCTCCGTCGCAACACCAA	2056	60.77
GGACTGTCATGGATTCTCTGGA	1357	57.63
CTCTCCGTCGCAACACCAA	2056	60.77
CCACTCGTTCGTCGGAATGAC	1777	61.39
CTCTCCGTCGCAACACCAA	2056	60.77
CCACTCGTTCGTCGGAATGAC	1777	61.39
CTCTCCGTCGCAACACCAA	2056	60.77
CTCTCCGTCGCAACACCAA	2101	60.77
GGACAATGTGCGTGTTGTTG	512	57.02
AACTATCTATGCAGTGAATGTTGGAA	565	57.14
TGGCCATACAATAGTAATTCGAATG	42	58.1
CTCAAGCCTATGGATACTGTGTGG	289	58.7
AGACTTACGCCGAGGAACGC	896	60.35
GCTTCACGACACGGACAACA	635	59.3
GCTTCACGACACGGACAACA	645	59.3
CGCACTGGTGGAGACTGTGTATG	589	61.47
GGCTAGAGACGTCCGTGTGA	229	57.48
GGCTAGAGACGTCCGTGTGA	182	57.48
TTCGTATCCGCAACAATCCA	31	58.57
AATGTCCAACGCCATCTTGC	225	59.53
CGGTACATCATTCTTGTCATTGG	163	57.98
CGGTACATCATTCTTGTCATTGG	106	57.98
AAGAATTGGAGCTTATAATGTGTTGG	187	57.89
TAATGGAACAATCACCTGTAACGG	188	58.82
AACCGATATGTTGATCTTCTACCG	85	57.35
GGAATAAGAATAGCGGAGAAGTGAG	327	57.8

TTATGCCGAATAATTCTGGATCA	416	57.31
CGAGCAGAGCCGAATCAACC	220	61.74
TACGGCTTGACACGATTCCTAC	860	57.88
TTGGTTGCCGAGTTCTTGGA	480	60.18
CAACAGGAGTTGATAGTACGACAAGAG	1093	58.56
ATCCAGTTATGCTGCTTATGAGG	188	56.3
CGGCGATTATTGACTTGATTG	523	56.9
TGATAATGTTGTGAAGGCTGCT	185	56.18
TGATAATGTTGTGAAGGCTGCT	169	56.18
GCGGAAGGAGGAGAAGCGTA	317	60.42
AACGATTGGTGGAAGCACGT	487	59.05
AACGATTGGTGGAAGCACGT	451	59.05
CCGCAATGATGAACTACACG	42	56.28
GCTTACCGAGTGCGTTCTGT	139	56.71
CAGGAGGAGGTCGTCGTAGTAG	243	56.75
CGAGGCGGAAGATTACACCA	399	59.65
CGAGGCGGAAGATTACACCA	399	59.65
CGAGGCGGAAGATTACACCA	478	59.65
CGAGGCGGAAGATTACACCA	478	59.65
ATTGTCTGACGCCAGTGCCA	739	61.22
GCCGAATATGCCACAGACTG	645	57.78
TTGTGATGGAATGATGGAGGA	1674	57.37
CAGTGGTGGAGCAGGAGCAG	860	60.56
TTGTGATGGAATGATGGAGGA	251	57.37
GAGAGGAAGAAGATGGAGGTGGAA	3519	60.85
AGCAGGAGGCAACGATGGAT	818	60.56
CACCGCTAGACGCAGAGACT	283	56.91
GAGGAGAATACAGTCGGCGAA	578	58.01
CGGTGGTGACAGTCCAAGT	1761	58.58
ATGAATGGCATCAGCAACTTG	61	57.3
TTGTGTTGCTGAAGCTGGAA	67	56.65
CGGATTATACATTGGCTGGTG	463	56.64
ATATACACTGTGGACTTGCTGCTC	154	56.32
GTTGCCGACATTGAAGTTGAC	202	56.78
TCGAGAATGTGTGATTCTGGATT	68	58.12
CATATTCCACCACAGGACGGA	814	59.25
GGCGAATGCACGAGAGACCT	121	61.26
CACAGGAATTGGTGACTTATGGA	567	57.59
CACAGGAATTGGTGACTTATGGA	388	57.59
GAGTTGTGGTGTGCGATGTGC	233	60
GCAGCGGAGACTGAGTCATTC	42	58.63
TCAAGAATGTGTCACGCATCA	1277	57.27
TTCCTCTTCTCCGTCTGCCA	30	59.5
CGGAGACACAAGTGGCGGTA	64	60.65

ATAATCAATACTGTAGCAGCAATGTATG	210	56.17
AATGTCTCAGGCTTGCGTGT	211	57
AGTACCTGTTATATTGGCTGCTGGA	160	59.13
GTTGGAAGGAGACACGGATG	555	56.59
GACTTGTAGCGGTGGCTCGTG	2715	61.69
GAAGTCTTCCAGGACGCTCA	107	56.63
GAAGTCTTCCAGGACGCTCA	53	56.63
CAGAACAGCCTACCGTACCAAC	625	57.43
ATTCCGGTCTTCAATTGCTAAG	120	56.27
GTCAACAGTCAGCGTCTCGTC	222	57.11
TTAGTACGGATGAGATCACATCAGAGAC	442	59.91
TTAGTACGGATGAGATCACATCAGAGAC	403	59.91
AGAGGATGCTGGTGGCTTGAC	1671	60.22
AGAGGATGCTGGTGGCTTGAC	1648	60.22
CAACATATTCATCGCTTCTTAACACT	759	56.9
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CAACATATTCATCGCTTCTTAACACT	759	56.9
CAACATATTCATCGCTTCTTAACACT	736	56.9
GAGCATGTTCTTAATGGACAGTT	183	56.07
GACGAATTGCTCGGACTCTG	59	57.07
CAGTTGAAGCAGAAGTTCCAGGA	1308	59.51
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GTGGATATTATGACGTGGATGATG	521	56.91
TAATGAATTGGCCTCTCGCA	87	57.92
CGCGGTGACGAGACTAGAGA	59	57.79
ATTCTTCAGGTAGATCAAGTATCTGCTC	372	57.84
CGACACGGAGAAGTGCTTACAG	409	58.66
CGACACGGAGAAGTGCTTACAG	415	58.66
AGCATGATGATTGGACAGAGC	576	56.4
AGCATGATGATTGGACAGAGC	576	56.4
AGCATGATGATTGGACAGAGC	509	56.4
AGCATGATGATTGGACAGAGC	509	56.4
ATAATGCGAAGATGTCATCCGAGA	111	60.73
ATAATGCGAAGATGTCATCCGAGA	111	60.73
CACCTGGACAGCCTGATGGA	474	60.63
AGAAGAGCACAAGATGGATAATGATAC	695	57.21
CGGCTCCACTATTCTGCGAT	382	58.89
GAGTTCGTGCCAATGAGGTG	290	57.74
AATTCAAGTCAATGCTCCAGATGG	149	60.29
CGTTGCAGCGTGTGGAGAG	628	61.51
TCGATGATGTGGATGATTATGC	291	56.99
TCGATGATGTGGATGATTATGC	282	56.99
TCGATGATGTGGATGATTATGC	265	56.99
GAGTCTCGTGGATGCGTGCT	1243	59.99

GGAGATGAATGAAGAACAGGAAGA	233	57.52
CAATTCGTGTAGACGTCGGTT	663	56.38
CGATGAGCTTCCAGCTGAGGA	103	61.5
TTCTTGTGTGTTATGATCTCCTTGA	949	56.65
TGCCACAATCAGTGTATGTTCCG	606	61.61
CCTTGGTTGGTGTGTTGGTC	66	57.32
TGGTCTAACTCGAACAGAATCAGA	528	56.82
GAAGAATATGGAAGATCAGATGAATG	397	56.22
TAAGATTCAGGTAGGAGACAGCGA	410	58.23
AGAGTAGTAGTGTTGCTATGTTGACTGA	2169	56.02
TGCCTGACGAGAATGAGTGC	73	58.55
AACTATCGCCATGGAGTATAACTCAGT	175	58.68
AACTATCGCCATGGAGTATAACTCAGT	175	58.68
CAGAGACTATTACATTGGTTATTGC	3966	57.14
AAGTTGGTGTATGTCAGAAGACAC	448	56.21
AGAGTTCTTCTGGTACAAGCTGGAT	702	57.77
AGAGTCCGCCGAGAATGAAC	1544	57.93
CAGCGAGGATGTTAGGATTGTTT	803	58.76
TTGTTAGCTGCTGAGCAACCA	473	58.32
CGAATGTAAGAAGGATGTGGCA	308	58.7
TCCAGTTATGTTGAAGCCGTT	47	56.02
GATGATCTGAGCAAGTCGATGGA	235	60.18
GATGATCTGAGCAAGTCGATGGA	235	60.18
GCAGCATTGATTCAACAGACG	269	57.97
TTATTGAGTCAGAAGAGATATTCGGAAG	2011	58.55
TGAGAACACAACCAAGACGAGA	689	57.04
ATCAACAACAAGCCGTCCAA	1267	57.66
ATCAACAACAAGCCGTCCAA	1267	57.66
TATGGATATGGAGATGATGGTTGT	512	56.06
TATGGATATGGAGATGATGGTTGT	224	56.06
TTGGACTTGCTCTGGAGATGCT	591	59.97
CGTTGGAATGAGATCGGCTCA	181	61.97
TTCCGATGTGTGCGTTCCTT	60	60.07
ACGGCTGTTGTTATTCGCTT	99	56.18
GCTGCTCAACAACCACTATCTCA	26	58.14
CAAGATTCAATAACTCTCGGAAGC	40	57.35
CTTAATACGTTACTAGGTCAACATGTGA	1387	56.16
GCCGTGTTGTTGTGTTGAGG	490	58.63
CGGCGATCTTCACTTGGACA	46	60.74
CGACAAGAGTTGCCAAGGAT	407	56.46
GCTCTCGGTGTGCTCAGTGT	947	57.61
TTCACCGTCCGCATTGAGAT	1013	60.04
AAGATGACAAGTGGATGGTTATTGG	564	59.17
AAGATGACAAGTGGATGGTTATTGG	564	59.17

AAGATGACAAGTGGATGGTTATTGG	564	59.17
AAGATGACAAGTGGATGGTTATTGG	564	59.17
GCTCTTCAATCAGCCTACGATT	101	56.43
GACAAGGCGATGGCTGAGTT	56	58.88
ATGAGATGACGAGACGGAGTG	606	56.35
CTGTGGAGGAAGTGGTGAGG	648	56.71
AGCTGTGGTCGTTGGTGGA	160	60.12
TCGAGTACAGCACTTGTTGAGAG	224	56.09
GACAACGAGTACAATTATCAAGACGT	152	56.73
ATTCTCCACGACACCTTCCA	688	56.59
TGCTCATTGGTGTCAGCATT	699	56.27
GAACACACATCTTGCGGTAGGAA	1987	59.99
TTGGATTTCAGGAGACGGAGTC	497	57.77
CCACAGGAGCAATGAGTTTCG	88	57.89
CTGAAGAGTCCGATGCTCCAT	431	57.95
CGAGTACACCAACGATGCAA	559	56.81
ATCAGAGACCACCACAGCAGTT	1104	57.38
ATCAGAGACCACCACAGCAGTT	212	57.38
AACGAAGATGACTCAGGCTCA	1484	56.19
AACGAAGATGACTCAGGCTCA	1387	56.19
TTCATGTTGGTGACTCTTGTTTCG	808	58.74
CCATTGGAGATGGAACATGG	180	57.23
GTATGACACACGGAGATGGAACA	134	58.43
CCACATGGAGATGGTACATGG	134	57.18
CGTCTCACTCACGGAGATGGA	119	59.82
TTGAAGACATCCGAATCATCCA	125	58.96
CTCTTCTTCCAATCAACTAATGTGC	50	57.28
ACGTCGAGATGCTCAACAATG	178	57.43
CAGCTCGCTGGAGTTCCATT	95	59.02
TTGAGGTTGCAGTTGATGGAG	422	57.4
TTGAGGTTGCAGTTGATGGAG	501	57.4
CAGAGCTTAATGTGGAGGATGAG	341	56.77
GGCGGCAATTATGGAGAATC	313	58.08
AAGAAGCGGACGATGGAATG	399	58.73
AAGAAGCGGACGATGGAATG	217	58.73
TCGGCGGAATCATCACTATC	104	57.17
AAGTCGTCGTCTGTGGATAAGG	409	56.98
GCCGAGAAGAATTGCACTGA	63	57.63
TCGAGCAAGTCCTTGATCTACC	937	57.18
ATGGTCGCAGCCAACGAAGT	74	61.53
AACTCACTTCCATCCACATCGG	54	59.81
GAGTTGTGAAGTTGCAGGCA	597	56.05
GCTCTCAGAGTGCTCAATTCAGAA	147	58.91
TATAACCAGAGAGCAGTATTCAACTCAA	519	57.86

CACTCTCTCGTCACCGCTAAC	34	56.29
GACCACCATTGAGGAACTGC	223	60.45
CCTTGCGTCGGAGTTCTTCA	634	59.95
GGAGCCTGCTTGAGTAATGC	581	56.26
ATAAGTGTGAGGAGAATGACGCA	414	57.5
GGTGTTCAACATGAATCCAAGG	234	57.88
GGTGCCGCTTCAGGAGAGAT	2497	60.31
GGTGCCGCTTCAGGAGAGAT	2497	60.31
AGTTGAACAAGTATCGGCGAGA	191	57.63
CGATATGGACGGTGATAGTGATTC	387	58.4
CGATATGGACGGTGATAGTGATTC	384	58.4
CGCAACAACAAGTCGTCCATA	59	58.29
CGCAACAACAAGTCGTCCATA	312	58.29
GAGACAAGAGATTGAGGATGCC	493	56.55
TGTTGGCAAGGCTCACAGAA	129	59
ATTGTGCTCGCTGCCTGCTT	1255	61.92
CCACATTGACACGATATCAGT	58	56.18
GGATCGCCAAGTGATATGAATG	1157	61.3
GCCAATCAGCGATCACGATT	265	59.63
CCGATCTACCTGATGCTCAATG	384	58.28
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TTACAACAATGGCTGGACTCAA	176	56.91
GGAATGAATGAGCAACCACAC	39	56.56
ATCCAGTCAGGTGATACTGCCAGT	41	59.9
TAATGATGATGGTGAAGGTGTTG	1486	56.14
GAAGCAGGAACACCAGAAGC	1385	56.17
CACGAAGATGATGAGGATGGC	402	59.09
CACGAAGATGATGAGGATGGC	444	59.09
CCAGATAGTCTCCGGAGACACTG	146	58.86
GGACTGAAGCTATGGTATTCGG	410	56.55
TACAATACGGCGAGCACATCA	185	58.8
TACAATACGGCGAGCACATCA	123	58.8
CCAACCTACCTATGCGATGATCA	284	56.39
AACTGATTAGGCTCACTGATGGC	138	58.41
AACTGATTAGGCTCACTGATGGC	53	58.41
CCTGTAATATGAGGAGGCAGAGA	302	56.31
ATGCGTTCAGCTCTCTGGTT	50	56.2
TTCGAGTAATCATGGTATCATGTTC	273	56
GTAGCCGCAACACGACATCA	58	59.31
GTAGCCGCAACACGACATCA	58	59.31
TAACCTGCCTCCACAGCCGAT	4052	60.57
AGCTTATGATTGAGCAGCGAA	701	56.55
TAACCTGCCTCCACAGCCGAT	4058	60.57
AAGCCGGAGGAGCTGGATGT	2126	61.95

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AAGAGGCGACGAAGATGGTC	2493	57.93
CGGAGAAGAAGTTGTGGAGA	1501	57.97
TTCGTAGCAATTCGTCACTTCTAC	338	59.68
TTAGTCCAGACGCTAGAACTGTCAG	179	57.99
GAGATTGTTGTGTGAGGTCGCA	1900	59.74
TAGCAGCGGAACGAACACAC	277	58.52
TAGCAGCGGAACGAACACAC	368	58.52
AACAATGAATGGTCAGCAGTTG	178	56.37
AACAATGAATGGTCAGCAGTTG	269	56.37
ACCACGTGCAACATGCGATT	54	60.93
GAGCAACCTTCTCGTATTCCG	2190	57.57
TGGATTCGTAGAGACAGAGAGAGA	178	56.12
AACAGTCTCTCTTCCACGATCATTG	41	58.99
TGAGAATAATGTCTGGTGGAGGA	766	58.12
CCAGTGAAGCAGAAGCCGAA	211	60.09
CCAGTGAAGCAGAAGCCGAA	737	60.09
TTGTAGTGTTCTGACGCCACA	145	57.35
GCAATCTGTCGAGAGAAGTAATGC	78	58.23
ATTGTTATTAGCCTGCCACCGA	1292	59.47
GAATGGTGGCTGCCTGAGAA	287	59.77
TTACAACGGATTCGCCAACG	230	60.44
TTACAACGGATTCGCCAACG	230	60.44
TTACAACGGATTCGCCAACG	235	60.44
TTACAACGGATTCGCCAACG	235	60.44
GTGTTGGTCGTGGTGGTGGT	1680	60.15
GTGTTGGTCGTGGTGGTGGT	1680	60.15
TTATTGGACGATCTTCTGAATATGTTC	96	57.84
GGACAAGACGGAAGCAACGG	713	61.5
TATTCCTGTCGTCGCGCTTCT	464	60.83
TTCGCTGGAGCAAGACAACA	394	59.15
CATCGTGACTTCCAGGAGTGTG	223	59.21
ATGCTTGATTATATTGTTAATGGACCTC	964	58.09
TTGTTGCGTGGATTGCTCTA	1353	56.57
TTGTTGCGTGGATTGCTCTA	1353	56.57
AATCACGGCGACAGTTGGTT	214	59.05
AATCACGGCGACAGTTGGTT	214	59.05
AATCACGGCGACAGTTGGTT	214	59.05
GGTGTGCCGTCAGAAGGTTA	862	57.26
AAGCCAATCAAGCATCTCGT	38	56.11
CCGATGTTGCGATGTTTCAGC	33	61.15
CGCATTCTTCGTCTCGTTGG	42	60.34
CCAGAATCTCGGCGTGTCTAG	107	60.36
ACATAGTGGAGAGCGACCGTA	1095	56.07

ACACGCCAGCCGACTAATCC	624	60.97
GCATCGGACACCTCTTCATTG	1719	59.13
CTTGCAGGAGATGCCGATAAGG	623	61.82
CTTGCAGGAGATGCCGATAAGG	617	61.82
TTCCGATCACTGGACAACTCC	450	58.58
TTCGACGAGGAGCCTGCTTA	400	59.68
CGATGATTCCACTGCGATGA	532	59.19
CTCGCCGTCAAGGATAATGC	567	59.26
CGCAACGATGAACATTATTCTGT	5401	57.83
CGCAACGATGAACATTATTCTGT	3247	57.83
CGCAACGATGAACATTATTCTGT	792	57.83
GGTTCGCCCGAAGTACATGG	440	61.18
AAGAAGGTGAAGAAGAGCAAGATG	397	57.08
AACGTCCAGCACGTCTGGTT	417	59.21
AAGGACGGTTGCAGCCACTT	573	60.62
TCAACTATATTGTGGTCAACCGAAC	410	58.06
GTTAACAGAGCAGCCACATATGAGTA	73	57.72
GCGAAGGAACGGAAGAAGGT	1598	59.29
ACGAGTTCAAGAGCATTCTGGAT	912	58.03
GGAACACTGATGAGAATTCATGCTT	327	59.51
CGTGTTGACGATGACGGTGT	1013	59.02
AATGTCGCCACTACCTCCAC	123	56.17
ATCAGCCAACTCTCAAGTACACAC	488	56.24
ACCACCGCCTACGCAGAAGA	521	61.65
ACCACCGCCTACGCAGAAGA	708	61.65
ACCACCGCCTACGCAGAAGA	366	61.65
ACCACCGCCTACGCAGAAGA	366	61.65
ATCTGTGGCACCTTCTATGTCC	230	56.77
CGTCTGATGAATCGGACCACT	175	58.6
CGTCTGATGAATCGGACCACT	175	58.6
ATCTCTTGATTGTTGGATTCTATGG	1520	56.53
GAATATCGATTGGAAGATGATGTCA	192	58.03
GAATATCGATTGGAAGATGATGTCA	212	58.03
TCATTGAAGCCTTCTCATTGACA	647	58.43
TTGATGACTGTACTCTCCGCAT	357	56.05
ATGAATGAGCGAGGTGGAGGA	313	60.55
ATGAATGAGCGAGGTGGAGGA	313	60.55
ATGAATGAGCGAGGTGGAGGA	313	60.55
AAGTTGTTGGAGGATCTGTTAGTGG	1871	58.66
TGGTGGAGGAGCGGAAGTTC	106	61.1
AATACCTACCTGCCAGCCACA	68	58.2
TCTTACGGTAGACACTATGGAGTATGG	78	57.91
AACTATTCAACGGCAACCTCCT	882	57.84
AACTATTCAACGGCAACCTCCTC	798	59.5

AACTATTCAACGGCAACCTCCTC	634	59.5
AACTATTCAACGGCAACCTCCTC	634	59.5
CGAGTTGTGGAGACTGTTGGA	1289	57.37
CAGTGCTGTGCAGGATATTGG	1342	57.85
CAGTGCTGTGCAGGATATTGG	1342	57.85
AAGCGTTCCTGCCTTCCACA	264	61.63
GGATTCTTGTGTTGTTGATTATGATGC	498	60.72
CCGATGACTACACTATCACCTCTG	888	56.59
GCATCCAGACTCCACTCCAT	502	56.09
AATTCACACTCGGCGGACAC	428	59.56
TATGCCTATGACAATCGCCTACA	67	58.29
ATCGCCAACCTTGCTCGATT	115	60.54
GTCTTCTCAACACAACACGCAGT	67	58.04
CTGTTGGAGCAGCTTCTGGT	1994	56.72
CGTGTATGCCATTGGAGGAT	130	56.95
CAGAATGCCGAACCTAGATGAGC	166	59.02
CGGAATTGCCATTGGAAGAC	73	58.96
TTAACAATCGAACATGCTATCAAGA	691	56.81
TTGTCAGTGCAGAATGCGATC	681	58.46
CGATGCGACTGTTATGGAGGT	2189	58.67
GTGATGTGCTGTCAGATTATGGAG	1557	57.38
CAAGACAAGTTGCTGTTAGAATGAG	886	56.24
CCGTGATGTTCAGTCTATTCTTCG	802	58.81
GCAGGTTGTGGAATGGCTTG	181	60.07
ATCCAAGCAATCAAGCCGTT	1044	58.26
TTCAGTTGGAATTACAAGAAGCG	937	57.28
AACTTATTGCGGTCAACGGA	434	56.85
GCGATCAACTTATTGCGGTCA	427	59.68
GCTGTAATGCCACTCGACACC	90	59.2
GCTGTAATGCCACTCGACACC	152	59.2
TTATGTTAGTGGAGAAGTCAGCTGTCAA	390	60.48
ACATCGTCTTCAATCGCAGTT	900	56.03
ATGGTCAATCTAACGGTCAACG	76	57.61
TGGTGCTGAACAGGAATGTG	942	56.66
TCACCAGGAATTGAAGAAGCA	953	57
ATTGATGAAGCGAGTGAAGGA	77	56.09
GGTTATTGTTATATGTCACGAAGGATC	283	57.26
AAGACGGAGAAGTTGTGCGAA	112	58.57
GGAGATATGGCTGTCGGACA	325	57.13
AATTGAGAGATTCGTTGGTGAAGT	1054	57.05
ATCCAAGGAACTACTTCGCTGA	978	56.76
ATCCAAGGAACTACTTCGCTGA	1001	56.76
TGGTGCTGAACAGGAATGTG	994	56.66
GGCATTGAGAAGGTGCAGCT	273	59.03

GGCATTGAGAAGGTGCAGCT	260	59.03
AAGTGACGAATAAGGCAGCGA	333	58.6
CAACCTGTGGCTGACTGGAA	879	58.29
GTGCGGACAATTCATGATGGA	478	60.29
GTGCGGACAATTCATGATGGA	608	60.29
AGGAGGACGAAGAGTGGATGGA	546	60.93
GATTCTCGTCACTTCTCCAAGTTCAC	265	60.47
AGAAGGAGGATAGTGAGCATATGGC	536	59.95
AACTGAGAGATCAGAGATGCGAA	300	56.93
TTCAGGTGACAATAGCATTGGAGA	92	59.6
TTCAGGTGACAATAGCATTGGAGA	188	59.6
TTCAGGTGACAATAGCATTGGAGA	188	59.6
AATGTCGTGCGATGAATTGG	211	58.03
TTAACAATAATCTCCATGACGTTTCGT	413	58.91
TTAACAATAATCTCCATGACGTTTCGT	641	58.91
TTAACAATAATCTCCATGACGTTTCGT	290	58.91
TGAATGAGTCGATTTCGTTCAACAC	1551	59.99
TGAATGAGTCGATTTCGTTCAACAC	1595	59.99
TGAATGAGTCGATTTCGTTCAACAC	1603	59.99
CCGCTGCTCACC GACTTCTAC	92	60.89
AATGCGTCAAGCCGAATCTG	428	59.8
TCATCACGGATCCACTGGAG	108	58.02
ATTCCGTGGTCTACCGAGCA	2783	59.14
ATTCCGTGGTCTACCGAGCA	2783	59.14
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CAGATGAGCCGACTCGTCCT	20	58.99
GTTCTTGGCATTGGTCTATTCAACA	3486	59.03
ACAGGTTGACACTTCGTTGCG	223	59.78
ATGGACAACAGCAACAACAACC	487	58.47
ATGGACAACAGCAACAACAACC	243	58.47
TATGGCTGTGGATGAGGAGGT	501	58.07
CTCCATCCATCCATCCATCTG	162	58.75
TCCAGAAGCGACACTCAGCGT	258	62
ACGTTGTCGTGCATGGCAAC	68	61.52
CGGAGAGGATGATAAGAAGAGAATG	349	58.47
CGATGCTTCTTGATGCCTCAT	855	58.88
CTTATTCTCGTTATTCTGGACATCTTC	1543	56.95
CGATGCTTCTTGATGCCTCAT	184	58.88
CGATGCTTCTTGATGCCTCAT	715	58.88
CGATGCTTCTTGATGCCTCAT	810	58.88
CGATGCTTCTTGATGCCTCAT	452	58.88
GGCTTATTCTCGTTATTCTGGACA	220	57.58
TGGAACGGTTGGAATCTGAT	262	56.49
CGGAAGATCCACTGGCAACT	373	58.73

TGTGGTTGGAGCACTTCAGA	85	56.35
TGTGGTTGGAGCACTTCAGA	103	56.35
TGTGGTTGGAGCACTTCAGA	448	56.35
AGAATCCGGTGACGTCATCA	169	57.52
CACAGGAGGAAGGAACCGATT	642	59.03
CACAGGAGGAAGGAACCGATT	642	59.03
CGATGAATCAGCACTTGCCAA	194	60.72
ACTCTTGCTTCGTCGGTGATT	691	59.36
GGATAGTTCAGATAGACTGATCAACGG	149	59.45
GTAGTGGATGTGAAGACGGAGAA	116	56.96
ACGTGCTGGAACATCGAGAGG	55	59.37
ACGTGCTGGAACATCGAGAGG	97	59.37
TCCAGAAGGCTACTCAGGCTAT	775	56.06
AATTGTTGCAGCAGCTCCTC	931	56.77
CGTTCATGGTGGAGGCTTCT	534	58.73
GAAGGCAGGCATATTCAATCCAG	683	60.71
GAAGGCAGGCATATTCAATCCAG	313	60.71
GATAGGATGTACCATCATCGTACTGA	90	57.24
CTTCCGTCTACAAGTCCTTCATCA	77	58.44
GAGCCGAGGACAGAGATAACAACC	372	60.08
GAGAGAAGAAGACGGTCCAGTG	198	56.73
GAGAGAAGAAGACGGTCCAGTG	333	56.73
TATCCAAGACCAACGACAACAAGAAG	38	61.43
AACGAATGCTGCCTACGAAC	406	56.6
AGCCAGTTCTCACATTCCATAAGC	788	59.64
GGAGAGTGGTGGGAAGAGGAAGA	278	58.39
GGAGAGTGGTGGGAAGAGGAAGA	240	58.39
GGAGAGTGGTGGGAAGAGGAAGA	190	58.39
TCTTAATAGAACACGCTGCTGCA	82	58.83
GGAGCGCAACTTGTCATCTC	68	57.07
CCACCACACCACTCAGCCTGT	74	61.94
GCCTGATGATAAGTATATTGGAGACC	129	57.37
CAGAACCTCGCAGTGATTCATACC	40	60.81
GCCTGATGATAAGTATATTGGAGACC	69	57.37
ATTATTCATCTGGCTGCGTCA	137	56.95
ATGAAGATGATGACGAGATTGCC	915	59.04
ATGAAGATGATGACGAGATTGCC	173	59.04
ATGAAGATGATGACGAGATTGCC	412	59.04
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GCCTACCACATCAGAACTCATTG	221	57.36
TTGTTCTCATAGCCATTGCCA	122	57.84
TGATGTCTCTCAACAGGACAACTTC	359	58.43
GGAAGTGACTCGCTAAGTATTGTTGA	780	58.94
GGAAGTGACTCGCTAAGTATTGTTGA	730	58.94

TCTGGCTACGGTATTGGATAAGTC	425	57.48
GATATTGATTACTGCCGCACCGA	631	61.89
TTCGACTTAGGCCTTCGCTTA	78	57.91
GCCTAAGCCTAAGCCAAGCT	46	56.71
TTGTGAGGAAGCCGATAACG	460	57.44
TTGTGAGGAAGCCGATAACG	447	57.44
TTGTGAGGAAGCCGATAACG	336	57.44
ATGGATTATGCTCGGAGTTATGG	72	58.05
GAACGAGAGACGAAGATCCTGA	532	57.21
CAATCGGAAGCGTATTATTCAGC	885	58.81
GGTACAATGAGCCGAGCAGT	99	56.49
CCACAATGATTAGATCTGTGCAA	105	56.44
GTGGAACCTCAAGCCGATAAGC	325	57.57
GTGGAACCTCAAGCCGATAAGC	404	57.57
GTGGAACCTCAAGCCGATAAGC	325	57.57
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AACTTGGATGATGAACTGGCTT	55	56.46
ATCAGAAGAAGAGCAATGGTTATCG	874	58.86
GCGAGGAGTCGTATCTGCAA	441	57.66
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TTATTACTATTGAGCCTCTGGAGCA	720	57.46
CAATCCATTCCAGCAGAACAAG	290	58.31
CAATCCATTCCAGCAGAACAAG	533	58.31
CATGAGCTGCAAGGCAAGTC	860	58.2
GCCTGATGATGTTGTGAATTGTGT	836	59.75
AGCCAGAGCCGGAGATCAAG	99	60.44
ACATCTTCGTAACAGGCAGGA	247	56.04
AATAATAAGAACAGCACACGTAACATGA	637	58.32
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TTCGTGGATTATTGCCTTATATCTTAC	84	57.17
TTCGTGGATTATTGCCTTATATCTTAC	84	57.17
ATTCAACGGCTACCTCACCA	227	56.74
ATTCTGATGAGGTGGCTGCGA	496	61.63
AATGAGCGATGGAACGGAAG	292	58.73
CGCTATTCCGCACACGAGTA	1138	58.55
TCAGATTCATCGCAATGCCT	33	57.85
GGTGCATCTCGGTGTCAGTT	79	57.16
GAATGGCACACAGCAGAGGA	820	58.4
GAATGGCACACAGCAGAGGA	473	58.4
CCAACGGTGGAATCAGGTCA	121	60.32
ATGCTGTCGTGCTGATTGCT	411	58.07
GTGGCGTGAGAATGAAGTGAG	2551	56.99
GTGGCGTGAGAATGAAGTGAG	2453	56.99

TATAACAATCTCATCCTCAGAAGCG	60	57.72
GCAATAGTTCAGCATCAGCCAGT	1021	59.41
GCAATAGTTCAGCATCAGCCAGT	1023	59.41
GCAATAGTTCAGCATCAGCCAGT	864	59.41
GCAATAGTTCAGCATCAGCCAGT	471	59.41
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GAATGCAGAAGGATCAGAATATGTTC	263	58.28
GAAGCAATGAGCGAGGTGTT	2916	56.61
GAAGCAATGAGCGAGGTGTT	2847	56.61
GAAGCAATGAGCGAGGTGTT	2280	56.61
GAAGCAATGAGCGAGGTGTT	2280	56.61
GAAGCAATGAGCGAGGTGTT	534	56.61
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TGAGGAAGCATACTGAGAAAGTC	1154	57.18
CGGACGAGTATTCTTATGGTTGA	572	56.98
ATTAGTGGAGCGAAGAGAGCATT	371	57.41
CTGTGGCACTGTGGCACTTGT	269	60.77
TTCCTATTGTACCTATGGTTCCAGTTG	1757	59.58
CCATTCAATCAGATGTCGACTGAA	236	59.95
TTCCTATTGTACCTATGGTTCCAGTTG	1315	59.58
TTCCTATTGTACCTATGGTTCCAGTTG	1415	59.58
CAACGAAGAAGACGGCGAAT	336	58.91
AGCGGCTTATCAATCAATATGC	187	57.1
GGCTGACACAGTTGTTAATTGTTCT	437	57.54
TTATTGTGATATGTGTCAGCAGTGG	525	57.77
TTATTGTGATATGTGTCAGCAGTGG	525	57.77
CATCCACTCCTGAAGAGCCAA	475	58.87
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CATCCACTCCTGAAGAGCCAA	279	58.87
CATCCACTCCTGAAGAGCCAA	279	58.87
GGATAATCCTGAACATCGACACG	369	59.32
GGATAATCCTGAACATCGACACG	369	59.32
CGGCACTATCGTTATTCGACTTG	563	59.64
CGGCACTATCGTTATTCGACTTG	411	59.64
GTACGACGGAGTCCTGGCAT	763	58.62
GTACGACGGAGTCCTGGCAT	763	58.62
CCGATGAGAGTGGACTGAGG	297	56.81
CACTGTGATTCTGTGGCTGTTC	1064	56.91
CACTGTGATTCTGTGGCTGTTC	694	56.91
CGATGGCGAGACGTTGAGAC	503	60.37
ATCACACTATTTCGTCGGTCTCG	289	57.82

TTCAATTCTCGGCGTCTACG	79	57.59
CGAGTTGATGGAACACTGGAA	111	57.25
ATGTGTACAATTCTCCAAGTTATATTCG	28	57.09
GATTGTGCCAGAGAAGATCCATT	67	58.21
CAATCGCCGTTGATCAAGTTC	207	59.16
GATTCCTGGTATGCTCCGATG	2071	58.08
CAGCAGTGGAAGCGGTCAGA	2328	61.09
CAGCAGTGGAAGCGGTCAGA	1528	61.09
TGAAGAGCACAACCTACAAGAGCA	1192	61.07
TTAATGGTTCATGTGCGATGAGG	928	56.21
GAGAAGCCATACTCAGAAGTTGC	586	56.1
TTCCAAGTATGATGCTGATTCGTT	350	58.68
CCGTCTATTCTCCGATCTATTTCG	112	57.95
ACCGGTGCAGGAGACTGAGG	183	61.19
ACCGGTGCAGGAGACTGAGG	35	61.19
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AATCGTATCACAATCGTGCCA	51	57.57
CATTCTATTGTTCGCCAAGAGC	702	57.65
GTCATTAGAATCGCCAAGCTAGGA	1412	59.72
GTCATTAGAATCGCCAAGCTAGGA	705	59.72
GTCATTAGAATCGCCAAGCTAGGA	1422	59.72
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AATCATCGGTTGCTCCTCCA	1180	59.08
AATCATCGGTTGCTCCTCCA	1180	59.08
CACTGGTGATTCTTGTTGGACA	854	57.17
TGTAGTCATCGGAATTGTAGTTATTACC	207	57.09
ATCCACTGATTACAGTGACAAGATG	348	60.27
ATCCACTGATTACAGTGACAAGATG	348	60.27
CGCCTACACATCTGAACCATC	213	56.75
GGTGGCTTCTCAATCGGTTA	145	56.36
AATGAATGGATGGATTGTGACC	535	57.18
CCGAGCAGATTGAGACCACT	290	56.5
CCGAGCAGATTGAGACCACT	411	56.5
CCGAGCAGATTGAGACCACT	194	56.5
GCGATGGCTACGGACTGTGA	231	60.77
TGAAGAAGAACAAGGCACTGAGG	1306	59.51
TGAAGAAGAACAAGGCACTGAGG	1306	59.51
GGTTCTGGTGAAGACGATGAGG	1215	59.56
GGCTCCGAGTAATTCAGGCT	714	57.12
CCAATACTCCTCTCCGCACA	111	57.35

TGACATGGTTCCAGCGACAC	1982	59.1
TGACATGGTTCCAGCGACAC	1983	59.1
TGACATGGTTCCAGCGACAC	590	59.1
TGACATGGTTCCAGCGACAC	749	59.1
TTCTCCTTCGCTGAAGACATG	371	56.76
TCACCAAGCCACTCTTCACC	363	57.29
TCACCAAGCCACTCTTCACC	382	57.29
TTGTTGTTGATGAGGAGAAGAAGC	289	58.55
GCTGAATAAGGCACATTACGGA	617	57.9
TGGTGCAGCAGCAGACACAA	1083	61.2
GAAGAGGAACGGAGCTGGAC	38	57.51
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AATGAAGTTACAAGCACCAGAACCA	50	59.91
TTGCTCATAAGAAGGAAGAACTGATTG	617	60.09
AATGAACGACGAAGACAGTGAGG	24	59.27
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GTCTACGCCTCCATCATCAACTACG	174	61.91
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GTGGACGACTGGCTGGAGAG	2048	59.41
GTGGACGACTGGCTGGAGAG	1094	59.41
ACCGAGAAGGATATGGAGTCG	724	56.84
CGGCGATGAGTACGGTAGTCT	29	57.97
GAGTAGGCTTCAACGACACCA	184	56.54
GCAGCAAGGAGGTGGTGGAC	502	61.58
GCAGCAAGGAGGTGGTGGAC	397	61.58
GCAGCAAGGAGGTGGTGGAC	632	61.58
GATGAATATCGTGAGCAACCG	869	56.8
GCTGGTTCGGTAGTCGTCAC	301	56.85
GCTGGTTCGGTAGTCGTCAC	347	56.85
CGAGCCGAGGTTATGGAGAG	619	58.49
CGAGCCGAGGTTATGGAGAG	619	58.49
GGCTTCTGTGTTGGCATTGG	619	60.07
CTGAGGCTCCAACACAACGA	418	56.7
TTGGAAGACCGTTGGATAAGAC	1956	56.84
ATCTACGACTAACAAGCAGCGAA	3330	57.08
GGAAGCAGGAGGAGTACGGAGA	429	60.68
GCGTTGTATGGAGATGCGAGT	2118	58.81
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CAGCACGGTTATACTGAGACTGAGAC	3421	59.4
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AAGATGTTATTGGAGATGCTGAATG	1583	57.46
CATGGTTCAGGCTGAGATTGATG	1024	60.44
AGTCTTGGTGCCATGCTTGC	204	59.84
TCAAGATGTGCAGCGTTGTC	1553	56.98
GAGAGATATCAGGCGATTCTGTG	251	57.52
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TTCGGAAGCAGCATCAAGAC	646	57.63
GCACATGGTTCACGTATTGTATATGAG	997	59.6
TTGGAACGGCATAGTATGTATGTTAC	644	57.34
TTATCCTCAAGGCAGACACTAAGC	73	57.82
GAGCCTGGAACGCTGCTTAG	87	58.82
CGAAGATCAGCGTCTGGACT	900	56.66
CCACAAGATATTCGACGGATTCT	460	57.18
GAAGACCGTCAGGAGCCTACTG	502	58.99
GGTTCAGAGCTTGGTGCAAC	163	56.97
CGACGGTCATATAGACACACATTG	92	58.07
CGAGCCACCAAGGAAGAAGA	1173	59
TCGATTGGAACGGATGATGA	1424	58.44
AAGTGAAGAAGACGGATTAGCG	510	56.49
GATTGATGTTTCGATTGGCT	251	57.23
AGGTGCTCTTCGCCAATGTG	355	59.84
TATCCGCATTCTCCACTGTCTG	880	59.67
GCTTCTCCTTCGTCTTCGTCA	306	58.27
TATGGAGGCGATGGAACCTGA	455	59.11
GCAGACGGATGGTGAGCAAT	709	59.66
AGACTTCAAGTGTCTTCGTTTACA	871	58.18
GGTGATGAGGATTGGAAGGAC	980	56.95
AAGGAGCGGACAGTTGAGGA	89	58.47
GGAGCAGCTACAGAGAGGATTCT	184	56.05
CCGCTGGTTATGGTGCTCAA	314	60.59
CAAGTTATAATAGCAATATCAGCGGTCT	318	58.46
AATTGAGAGGCTGGCTGCGT	463	60.86
GCTTGGAATTGTCACGGAA	447	60.58
AAGTATTCTGATATTCAGCAGGCTACAG	170	58.63
GCTCTGCTGCTTGACAGTTGC	74	59.92
GGTGACGGACGTGTGCTGTT	121	60.59
CTGCTTGACTGCTGCCTCAT	70	57.79
CTCTTCACTAGCACATTCCTCTCC	166	57.38
CTCTTCACTAGCACATTCCTCTCC	162	57.38
TGCTCTTCTAGCTGTTGTTGCTT	130	57.3
GCTCACCAGCAGTTACATCGTCTG	220	61.98
GGTACTCACAACCGCCATTG	264	57.54

AAGACCAACCGTCGAGAAGAAGC	108	61.84
AAGACCAACCGTCGAGAAGAAGC	142	61.84
TCTGTGGAGTTGGTCTTCTTCTGC	103	60.74
CAGGTATCCAGATCCGCCAGT	76	59.92
ACAAGTCCAGCAACACCAACA	110	57.71
CTCCAGTTGCCAGAATGTCAC	1048	56.83
CGCCGTGTGCTACTTCTCCA	252	60.93
TTCATCTTCTTGTCTAGTTGACGTT	73	56.61
GAGAGGAGGAGGCGAATAAGG	1014	58.05
GAGAGGAGGAGGCGAATAAGG	1735	58.05
AGGTGTATTGATTGTAAGCAGGCGTT	330	61.99
GAGAGGAGGAGGCGAATAAGG	1834	58.05
GGAGCAAGGAACAGTAAGGTGGT	512	59.53
AACGGAATTAGGCGGAGTGT	63	57.29
CAGTGAGTGAATGTGTTATCAGCAA	346	58
CAGTGAGTGAATGTGTTATCAGCAA	311	58
AGGCGGAATGATGAGGCTCA	158	61.59
ACACTGTTCATCATCTCAGGATCTACT	56	57.54
CAGAAGTCACTGCAAGCTGTCA	59	57.91
TTCCTGGATTCTCTGACTAATATGG	289	56.67
CTACGGAGAAGGATTCGGATG	369	57.37
ATCCGAATAATGTGTATAATAATCATGG	225	56.78
CCTCTGGTTGTCTTGGCTCA	66	57.45
GCTTGCCAACCATTTGCTCTG	371	60.35
GCTTGCCAACCATTTGCTCTG	319	60.35
ATCCTGCCAGATTATCATTCCAC	1005	57.97
AAGCAAGTTGGAAGACATTATGGTAA	1033	58.31
ATCCTGCCAGATTATCATTCCAC	47	57.97
CATCTCTCAATCTTATGATGCTACG	231	56.06
GCACCTCCACACATTCCACT	400	57
CCATATCCATTGGTGGTCAAC	67	56.19
GAAGCCTTGTTCTTGAATTCCACA	96	60.42
TTCCACAGCTCCAAGTGAAG	70	57.45
ACACTTCTGATTCTGGATTGTGCT	207	57.96
GCCGCTTCAGTATCTTCTATTGATG	139	59.31
TACAGGAATTGATGCGACGAAG	245	58.83
GCCGCTTCAGTATCTTCTATTGATG	55	59.31
GCCGCTTCAGTATCTTCTATTGATG	59	59.31
GAACATCGCTAACTTCTTGTCAG	174	58.15
GAACATCGCTAACTTCTTGTCAG	150	58.15
GTTGAATGCACGCTTCGGAA	79	60.72
GTCGTTGACAGACTTGTCGGAGA	537	60.29
TTGAGCCAGATTATTGCCGAT	93	58.27
GAACATCGCTAACTTCTTGTCAG	79	58.15

GAACATCGCTAACTTCTTGTCAG	62	58.15
GGAAGCCGTTCAACAACAACT	32	57.83
AGAGGAGATGGAGTTGACACTTG	106	56.16
GTTCCATCGCTGTCTTATGAGAG	347	56.77
CTTCAATCTGCTCTCGTCTCCA	1226	58.28
CTTCAATCTGCTCTCGTCTCCA	970	58.28
CTTCAATCTGCTCTCGTCTCCA	898	58.28
CTTCAATCTGCTCTCGTCTCCA	907	58.28
CTTCAATCTGCTCTCGTCTCCA	992	58.28
CTTCAATCTGCTCTCGTCTCCA	963	58.28
CTTCAATCTGCTCTCGTCTCCA	950	58.28
CTTCAATCTGCTCTCGTCTCCA	945	58.28
AGGTTCCATACGCCTTGACC	113	57.59
AACCGTGTGGCATCTTCTTC	278	56.3
AACCGTGTGGCATCTTCTTC	247	56.3
AAGAGACGTAATTATCAACAAGATTG	392	57.33
GCAGAGCAGTTGAAGGATGTC	111	56.18
TCCTACCTTAACCTCAAGCGAA	196	56.86
AGGAGTGAAGGAGTGACAATCG	22	57
GCAATTCAGGAGCCGCTGTATC	714	61.85
GCCATTCTGATAGTGATGTGTGCC	206	60.59
CGCATCTTCACATCATCCAA	104	56.64
CGCATCTTCACATCATCCAA	140	56.64
CGCATCTTCACATCATCCAA	152	56.64
CGCATCTTCACATCATCCAA	107	56.64
CGCATCTTCACATCATCCAA	153	56.64
TGGCTACAACAACGGACATCA	1882	58.63
CGCATCTTCACATCATCCAA	153	56.64
CGCATCTTCACATCATCCAA	153	56.64
CGCATCTTCACATCATCCAA	153	56.64
CGCATCTTCACATCATCCAA	153	56.64
TGGCTACAACAACGGACATCA	1979	58.63
CGCATCTTCACATCATCCAA	140	56.64
CGCATCTTCACATCATCCAA	99	56.64
CGCATCTTCACATCATCCAA	152	56.64
TGGCTACAACAACGGACATCA	1309	58.63
CGCATCTTCACATCATCCAA	230	56.64
CGCATCTTCACATCATCCAA	230	56.64
CGTGGAAGAAGCCTGTGTGT	850	57.38
CGTGGAAGAAGCCTGTGTGT	940	57.38
TGATTGGATTGAGAATAATTATCAACA	1064	56.94
CGCCAATACGAGACAGAAGTGA	87	58.98
AACGCCAATACGAGACAGAAGT	80	56.7
AATATGTACGATCCAAGAGTATTCAGAG	103	56.52

CGTCGGTCACATTCAAGCAA	744	59.28
CGTCGGTCACATTCAAGCAA	1041	59.28
CGTCGGTCACATTCAAGCAA	908	59.28
AATGTTGCTGCTATGCTTGC	1115	59.12
AATGTTGCTGCTATGCTTGC	1283	59.12
TCCTGCTCCACTGATGACAA	682	56.28
AGCCAATTACGGTTCCAACG	138	58.56
TTCCGTGGAGAATATCAATGTG	51	56.21
GAGCGGCTGGAGAAGATTACC	486	58.93
CACAACCAACTCACGAGGAAT	97	56.23
AATACTCAGAGATTGGAGAGGTCTACGC	420	61.43
TCGTAGTTATTGGAGATTATGATGAAG	695	56.08
TCGTAGTTATTGGAGATTATGATGAAG	695	56.08
CAGTGTGCTTCAGTCCAATGTG	157	57.88
GCCGGATACGAAGTTGAGATG	448	58.27
GGATTGTCTTGTTTCGTGGCA	230	58.14
ATTGGAATGGTAGAGTCGAAGTTC	159	56.61
AATTGAGTGCAGTTCGAGCGA	73	59.6
GAGCCTCCTCAATAATGACAGATG	91	57.92
CCAACGAGACCAAGAAGGAG	299	56.03
GAGCCTCCTCAATAATGACAGATG	91	57.92
TTGGTTGACTGGAATGTCTATTAGTTC	667	57.87
ATTGATGACGAGATGGCTCAGTTG	994	61.3
ACAAGTATGAGAAGGTGCCAACA	744	57.42
ACGGTAGTGGTTCACGGAGTT	128	57.19
AGAACATCAGACTCAAGGACTACAAG	314	56.16
CTCGGAGAGCAATTCCAACACTT	149	60.57
CTCGGAGAGCAATTCCAACACTT	52	60.57
ATATCTTGTTATGGTTCAAGGAATCC	458	56.86
CCGAAGAGAGATTCGAAGGC	230	57.68
TCTCCACCGACTCGCCAGAT	480	61.68
CGACTACATTCGAGCGGTGAA	415	59.84
CTTCCAATCTGCTCTCCTCTCCA	1313	60.79
CTTCCAATCTGCTCTCCTCTCCA	1529	60.79
TTGAGAATCGTGATGAGGCTAA	538	56.24
TTGAGAATCGTGATGAGGCTAA	554	56.24
TTCCATATTAAGAAGAAGCAACTCG	145	57.06
AGCGACTGGTTGAGGATGAG	365	56.5
GTATATCTTCTGGCAGACCATAGTGG	670	58.25
AAGCCAACACGTCTTCTCCAA	354	58.43
AAGCAGCTCGCAGAGCAGAA	284	60.14
AATCGTCCACGCAGACTTGC	192	59.84
AATCGTCCACGCAGACTTGC	176	59.84
TGTGACCTTGTTAATATGAGTTATGCC	255	58.53

GCAGGAGATGGTGGTCAAGG	153	59.09
ATCGCTGGATCATTCAAGTCG	175	58.74
TACATCTTCTGGCAGACAGTTGTG	756	58.06
GGTCTGGATGGATCATATCAATG	225	56.85
TCAACTCCACCAACCTCCAA	175	57.55
ATGGATCATTCTCAGCATCATCA	93	58.08
CTTGCTGTGTTCTCTTCAGCTGATC	241	60.52
AGGAACGCCTTCACAATGCA	315	60.21
GGATTGGTATTGGTCACTACTGGA	813	57.95
ACAGCGATTCCAGTCACACC	350	57.16
ACAGCGATTCCAGTCACACC	350	57.16
GATATTGAATCATTGGCGTGTC	292	57.14
TTGTCATGAATGCAATGAGTCTAGT	1711	56.67
GGCTTCAACTGCTGCTGCTC	1897	59.87
GGCACTTGCTGGCTATGCAA	241	60.87
TGGAGATGGTTATGGACAAGG	1180	56.07
TGGAGATGGTTATGGACAAGG	1051	56.07
TGGAGATGGTTATGGACAAGG	125	56.07
CACTTCTTCATTGATACGGCGTA	699	57.96
CACTTCTTCATTGATACGGCGTA	743	57.96
GGCTACATCATCAACCGAACTC	274	57.29
AGCAACTTGTTTCGTTATATGGTCCT	554	58.28
AGCAACTTGTTTCGTTATATGGTCCT	554	58.28
AATCAGCAACTTGTTTCGTTATATGGTC	552	59.7
AATCAGCAACTTGTTTCGTTATATGGTC	552	59.7
ATTATGATGGAAGAGCAATGGAGTGA	355	60.92
GCTTCGGCTCCAATTACTCG	217	58.54
ATGATGGAATAACACCTGAAGATGA	1040	57.6
GCTTCGGCTCCAATTACTCG	206	58.54
TCCAGCTCCAGAAGTTCCAG	88	56.63
CAGCAACAGCAGCAGCCAAT	293	61.08
CAGCAACAGCAGCAGCCAAT	293	61.08
CCATTCTGGCAGTGATCTCC	52	56.69
CTGGAAGAGGACGACGAAGA	754	56.63
ATGGAACACTTGAGGATAATGAGAA	468	56.97
ATGGAACACTTGAGGATAATGAGAA	468	56.97
ATGGAACACTTGAGGATAATGAGAA	176	56.97
ATGGAACACTTGAGGATAATGAGAA	176	56.97
ATGGAACACTTGAGGATAATGAGAA	202	56.97
ATGGAACACTTGAGGATAATGAGAA	202	56.97
GCTGAGCTTGAGATTAAGCATT	509	56.3
GCTGAGCTTGAGATTAAGCATT	509	56.3
ACTGATACATTATCGAGCATCGGATC	254	60.48
ACTGATACATTATCGAGCATCGGATC	332	60.48

GCTTGCTTCTTCTGGTGGTG	340	57.13
ACTGATACATTATCGAGCATCGGATC	254	60.48
ACTGATACATTATCGAGCATCGGATC	332	60.48
CGGAGAGCTTGAATGCTCCA	321	60.05
GATTCAGTGGCGGCTCTCAA	191	59.92
AGTTCAGATGTTGGAGCCA	118	56.75
TGCCAGTTGCTTACATCATCA	787	56.42
CCTTCTTGTCTCATCGCCTT	79	59.3
TTGCCAGTGGATTTCATGTCTAC	697	56.3
TGGAGCTTCAGCGAAGACTC	478	56.94
GATTCAGTGGCGGCTCTCAA	655	59.92
TGGAGCTTCAGCGAAGACTC	70	56.94
TCTTATCCTCGTGACAACCTTATGGC	57	59.53
GCAATGTTGGTCAGAGTAGCG	276	57.12
AAGCAGCGGAAGACAGAGGA	511	58.76
GCTCACAATCCAAGAAGGCAGT	965	59.36
CCTACAGAGAATGTTGAATATCACGCT	69	59.91
AGTACGATCAGATTCTGCCAGAC	79	56.24
CCTGATCAATGGATACAATGTACCAA	373	59.84
AGGTGCTCCAGTATGTCGGA	261	56.79
AGGTGCTCCAGTATGTCGGA	261	56.79
ATCAGGAGCCATTCAACCGA	1174	59.08
GCTTCACCTGCATTCAATCG	66	57.91
TGGCAAGAACAAGTCAACAGAA	944	57.14
CACTTGCCATTCTCATCGGA	130	58.24
AATGATGACTTGGTTGGTGGA	288	56.41
TTCTGTCCAGGCGATCTTGC	476	59.92
GAATTCTATCCAGATATCAACAGTTGG	967	57.41
AATCCGACTTCAAGCGATGA	1206	56.95
GCTGCTGCTTCTCGTGCTTA	368	58.16
GCTGCTGCTTCTCGTGCTTA	368	58.16
CGACAAGACGGAAGAGCCTGA	464	61.39
AACTATGATGTGGTGATTGGACGA	120	59.24
ATCTCGTAACAATAGTAGTTCCACCA	1503	56.32
ATCTCGTAACAATAGTAGTTCCACCA	1527	56.32
ATCTCGTAACAATAGTAGTTCCACCA	1332	56.32
ATCTCGTAACAATAGTAGTTCCACCA	93	56.32
GCGACCTGTCACACACTGTC	71	56.14
TTGTGCAGATGCTTGACGTT	114	56.67
CAGACAGAAGTTGGAAGATGATGG	1103	58.75
AATCTCATATTCGCCACGTCGA	139	60.41
AAGATGAGACTCATGCTATTGCC	267	56.3
CCATGTTATTCTGATTGATAAGGATACC	149	58.33
CCATGTTATTCTGATTGATAAGGATACC	195	58.33

TGCGGTTGACTATATTATTGAACTCA	790	57.94
AACAATGCCAAGAAGTAATAGAAGC	431	56.25
CAACGACTACAGTGTCCGAAGC	157	58.52
GGATTGTGGATAGGAGGAATGTGA	813	60.01
GCAGCTCTTCTGGCTTCAAG	38	56.65
CAACATTCTGGCTGGTGGATT	933	59.38
CAAGTTGAGCCAAGGAATGTC	615	56.01
CAAGTTGAGCCAAGGAATGTC	615	56.01
CTGCCAAGAAGGAACACAAGG	278	58.43
CTGTGGTGTGTTGAAGTTATGGTT	271	56.79
GACTTGCTCGGATGGAGATGT	1362	57.8
ATGGACAGCATCATCTATGGC	24	60.99
GGATACTTCAGACGAGAATGGACT	916	56.64
GGATACTTCAGACGAGAATGGACT	923	56.64
GGTTATCCACCGTTCAGCGA	1139	59.52
GCTGCCAAGACGGACTACGC	1440	61.79
AGCGGCAGAGGAGTCACGAA	125	61.96
CATATCGAATTGTCTATAGAAGTCATGA	432	56.09
AGCGGCAGAGGAGTCACGAA	125	61.96
GTTATTGTATTCTGCACCAATGCTA	544	56.33
AATCAAGCTCATCTCGTCTGATG	78	57.19
GTGGCTTCTGGAGGTCAATG	250	56.75
GTGGCTTCTGGAGGTCAATG	252	56.75
GTGGCTTCTGGAGGTCAATG	250	56.75
TTCTCAAACTCCTCCTGGTCCT	41	60.1
TTCTCAAACTCCTCCTGGTCCT	32	60.1
CACTCCTCCTGGTCCTCGTT	36	57.77
TATTCTCACCGCCGTATCGC	903	59.65
CCAGCTATACCATGTGTCGGA	453	57.18
CGGATCATTACTTCTCACCTTGA	129	57
GGATTATTCCTGAGCAGTACCAA	177	56.14
CAAGAGTATCAGGACAATAATGAGTCG	371	58.4
CGAGGATACTTGCGGAGGAA	93	58.86
TTCCTATACCGACATATCTGAACATC	474	56.54
AACATACCTAGTGAAGAGCAAGGAAGG	488	60.33
TGAATATTCCAAGTGTAGATCAAGGA	489	57.07
AGACATACCTAGTGAAGAATATGGAAGG	492	57.58
CACTCTGAACTCCTACGACGACT	983	56.41
TCCGCCAAGAGATGAACCAA	950	60.15
ATCACGCTCAGGACTATGCTCA	394	58.57
AAGTGAAGTCTGAGAGCAACTTGAAG	657	58.51
CGGCAGGAGCATACTGTGAT	322	57.38
CAGGCGAGAGTGAAGAGGCA	2117	60.24
ATCTGGAACAACCTGACAGTGAATTGAAG	364	61.75

TTCAAGGCTGCCGAAGTGAT	150	59.4
GTTGACGAAGATTGGAGTGGA	1492	56.28
TTGAGCACATTGGCGGAGAA	321	61.25
GGCGTTGACTGGAGGAATGG	1177	61.35
TTGAGCACATTGGCGGAGAA	321	61.25
TCTTGATTGGAGGTGATGCC	90	57.1
AATGTCACCGTTGACCACGTT	250	58.82
GGACAGGAACCTCAGAAGTGTC	54	56.42
GCCTGTTCGCCGATGTTCTC	381	61.63
AAGCCGTTAGTCACATGCTAACAGAG	978	60.93
AATACTCCTTGTATGGTTAATGGTGTTG	360	58.72
GGATTCTCCTGCCATTCATCA	222	58.52
CAATCAACGCTCTCGGAACG	237	60.34
ATCGTCGTCATCACATTCTTCA	75	56.74
CATACTCAGACAGAGCCGATCC	488	57.5
CGCTCTACAAGCAGATTGAGAA	324	56.22
CATACTCAGACAGAGCCGATCC	488	57.5
CATACTCAGACAGAGCCGATCC	488	57.5
CATACTCAGACAGAGCCGATCC	564	57.5
CATACTCAGACAGAGCCGATCC	458	57.5
ACAGAGAGTTGCGCGGTCGT	126	61.88
ACAGAGAGTTGCGCGGTCGT	178	61.88
GCATATAATCTGTGCTCTGTGTTGG	31	58.75
GCAGCAGCATCAGCAGCAGT	57	61.41
TTGATACTTCTGAATTGACGAGTGA	548	56.79
TTGATACTTCTGAATTGACGAGTGA	290	56.79
TTGCTATGCTCGAACAACCTGG	600	57.66
GCTTACTTGCTCGCCGTCCT	40	60.48
CGACGGTGATTGCTTGGCTT	57	62
CGACGGTGATTGCTTGGCTT	57	62
CGATGTATTAGGCTTGGTAGATCATTG	1068	60.08
GTTCAAGATATAATTCAAGAAGTTGCTC	775	56.37
GTTCAAGATATAATTCAAGAAGTTGCTC	787	56.37
CGAATCTTGAATATGGAGGTGTAAC	270	56.95
ATGCTCACACGCCATTAGGA	31	57.78
CGTGTGCCTACATCAGAGCCT	114	58.96
CGTGTGCCTACATCAGAGCCT	156	58.96
CGTCGTCCAATTCATCTTCG	317	57.76
TTCCGTTCTTATCACTTATTCCG	424	56.26
TTCTCACGATCAGTTCACTTGTTG	91	58.04
ATCCGTGAGTGCGTCTATGAAG	33	57.96
ATCCGTGAGTGCGTCTATGAAG	30	57.96
CTAGACGATCAGATGGAGGAACTTC	185	58.47
TATGGTGTGGCTCCAGATCA	218	56.04

GTTCGAGCGACAAGCACTCTT	572	58.34
AAGTCTTCAGAGATGGATTGATGATG	343	58.69
AAGTCTTCAGAGATGGATTGATGATG	376	58.69
AAGTCTTCAGAGATGGATTGATGATG	374	58.69
AAGTCTTCAGAGATGGATTGATGATG	391	58.69
ATGTTGCCGTGGCGTATATCG	491	61.53
GGCGACCTACTACACCGTCTT	85	56.99
GAACACAAGCTCGAACTCAATTCC	183	60.1
TGATAGGATGCACACGGAAGC	551	59.68
TGATAGGATGCACACGGAAGC	551	59.68
TTCTCGGCTTCTACCTAACACG	372	57.35
CGGTACGATATAACAAGTGTGGTC	406	56.41
AACAGCAATGGCATTATTATTGATG	840	58.1
CACTGATGAACTGAAGAGTACCGACT	61	58.93
AATGCTACCAGAATCGCTTGTGA	335	59.74
TGAGCAATGATGTGAGCAATG	325	56.88
TTCCATCCTTGAGTCTTACCGA	629	57.41
GAACTAGCAACCATTTCGTTGGAGAA	385	61.52
AAGACAAGAGAGACGGATGCTC	535	56.38
TATTACTTGCTGCTGTGGCTTC	71	56.07
ATTCGTCATTCAAGACACTATTCTCCTT	516	59.8
ATTCGTCATTCAAGACACTATTCTCCTT	516	59.8
CATCTTACGGTGGTGGTGGT	149	56.82
AGACATAACCATCCAAGACGCA	428	58.19
CAGGACAAGTTCACTCTGACATTC	205	56.62
ACTGCCTTGATCTCTACATGATGG	97	58.29
CGTGTACGATGGTTCACATAGGA	609	58.5
TTCCAATATTATCACTTCCTCCGA	45	57.74
GTCAGCGTAATGTCGTGGAAC	378	56.81
TTCGTGTTGAAGTACAAGGATGA	179	56.09
TTCGTGTTGAAGTACAAGGATGA	268	56.09
GCAACCAATGTTTCGTTTCAGG	1143	57.66
GCAACCAATGTTTCGTTTCAGG	1214	57.66
GCAACCAATGTTTCGTTTCAGG	1143	57.66
GCAACCAATGTTTCGTTTCAGG	1214	57.66
ATTCTGATTTCGTGAGGCGTCT	159	57.49
CAATGAGCAATCCGCCAGAA	530	60.68
GTAGAGAACAGCGATGGAGTCAC	159	56.72
TAGAACTGTCTGTCTGATGGATTG	177	56.29
TAGAAGACGGAAGTGGAGGCA	193	58.53
ATACGAGTGGATGGAGTTGGTGT	58	58.39
CTATGTGTCACTGAGAATGGTTGC	1239	57.43
AAGTTGTGTTGCTGCGTCAG	1588	56.16
CTGCGACGACGGATACGAGT	1366	59.86

AAGGAAGTCGGAGGTGTCAATG	1535	59.08
AAGTTGTGTTGCTGCGTCAG	1588	56.16
GTTACAGGAGAAGAGATTGGAGAGA	915	56.14
GCTAGATATGCTCCACAAGATTGG	292	58.01
CGTGCGGCTTCTTATATCGA	262	57.64
CATCAACTACAATAACTACACCGCCAT	100	60.34
ATCAACTACAATAACTACACCGCCAT	53	58.12
CCAGCTCAAGCAATTATCATCG	126	58.47
GTTACGGCGGAGATCCACTG	638	59.14
GACGTGTAGCTCTGGACAATGAC	110	57.48
GTTACGGCGGAGATCCACTG	717	59.14
AACGCTACCAAGAGAAGATTATCG	324	56.99
AATGTTGCGAATCGAATGGA	50	57.63
TGATGTTCCGCAAGTGCCT	1022	57.74
TGATGTTCCGCAAGTGCCT	646	57.74
GTGTCGGCGTTCAATGTCCA	340	61.46
GTGTCGGCGTTCAATGTCCA	140	61.46
CGAGATGATTGAGCCTGTGGA	503	59.78
CGAGATGATTGAGCCTGTGGA	503	59.78
TTGGAAGAGAGATTGACGGACA	564	58.37
GGAAGAGAGATTGACGGACAGC	566	58.93
GAATGAGGAACATGAATGGCAA	28	58.49
AAGAGGTGTTGGTGGAGTTAATGGT	154	60.01
CGACAAGAGGTGTTGGTGGGA	94	58.13
AAGAGGTGTTGGTGGAGTTAATGGT	135	60.01
ATGAGCAGTTGGCGGAGAGT	1515	58.49
ATGAGCAGTTGGCGGAGAGT	1515	58.49
ATGAGCAGTTGGCGGAGAGT	1521	58.49
ATGAGCAGTTGGCGGAGAGT	1503	58.49
GCGGAAGTGGAAGAAGCAAT	715	58
GCGGAAGTGGAAGAAGCAAT	549	58
TCTCGGATCTCACGGCTGTC	821	59.92
AGGCAGAGATCAAGATTGTTGTCT	729	57.24
AGGCAGAGATCAAGATTGTTGTCT	538	57.24
AGGCAGAGATCAAGATTGTTGTCT	688	57.24
TTCGGAGAATTATGTCACTCGTC	217	57
TCTGGCAAGAACACCGGTAA	63	57.81
CATCACTGGCTTCGTTTCATCT	391	56.47
CATCACTGGCTTCGTTTCATCT	299	56.47
CGACGAGCATGTCACTGTTG	331	57.42
GGAGCCGTTCTTATTACAACTGGTAG	581	59.5
GGAGCCGTTCTTATTACAACTGGTAG	438	59.5
GGAGCCGTTCTTATTACAACTGGTAG	480	59.5
GGAGCCGTTCTTATTACAACTGGTAG	623	59.5

GGAGCCGTTCTTATTACAACCTGGTAG	581	59.5
GGAGCCGTTCTTATTACAACCTGGTAG	623	59.5
CGGCTTCTTCAACTCTTCTATGTG	2464	58.28
AATGCGAAGAGATCCGAGAGG	816	59.39
AATGCGAAGAGATCCGAGAGG	816	59.39
AATGCGAAGAGATCCGAGAGG	207	59.39
GCAAGTTCAGAGGCATCCAC	111	56.91
AATGCGAAGAGATCCGAGAGG	237	59.39
GCAAGTTCAGAGGCATCCAC	111	56.91
CGCCAGAAGGAAGTCAAGGA	58	59
CGCCAGAAGGAAGTCAAGGA	58	59
CTCGCCAGAAGGAAGTCAAG	39	56.34
CTCGCCAGAAGGAAGTCAAG	39	56.34
TATTGTTGAGGAGCAGCCATC	919	56.52
TATTGTTGAGGAGCAGCCATC	1099	56.52
CACCGAGCAAGTTGATACTGTTGA	1141	60.16
GGCGTTGATGCTCCATACTG	193	57.78
AACGATTGGATGTCACGGAGA	334	58.99
GGACACTATCCTTAGACTCCATTGAC	213	57.43
TTGATAAGCAGCCAATGGTCTT	294	57.52
TTGATAAGCAGCCAATGGTCTT	138	57.52
AATGGATCGGTCGGCAGTTG	516	61.73
CTGTAGTCTCGGTCGCCAAG	1848	57.17
CGGCGGAAGAAGCAGAGAAG	73	61.08
CGGCGGAAGAAGCAGAGAAG	145	61.08
TGTAGGTGTTCCAACCTGCCGAA	106	61.36
GAAGAGATGAGTGACGCAGAGAA	653	57.42
TCACTGGAAGCTCGTGTATCACT	113	58.95
AAGGAGAGCATGGAAGAATCG	202	57.11
TTGATCTTCTGACGAGGATTGAGA	202	58.96
GCTGAGAACTGGCGAAGAGG	535	58.76
GAAGAAGCACAAGAGAAGACATCACA	395	59.93
GGCGAAGATTATTGCGGTTA	351	56.56
CGGTATTATGTTAGGATCAGCGA	391	57.04
AGATGATGAGGCAATGTTCCGG	248	58.6
GACTTCGGATGCTGATGCTGA	2278	59.93
CAGAGTTGATGCCTTCGTTGA	460	57.55
CTGTGTATTACGGATATGATGGATG	1334	56.28
TTCGCAATGTCACTGTTCCG	381	59.43
GATGGTTCTGATGGCGACGA	235	60.58
CCTACGCTATGGCTTATTATGGC	478	57.98
GATATGTACCGCCGAATGACC	94	57.88
GATATGTACCGCCGAATGACC	96	57.88
GAGCCGAACGACAGCAGAGT	663	59.19

GAGCCGAACGACAGCAGAGT	681	59.19
TTGTGATTGCCGCTATTGAG	755	56.06
GGCGTCACACGGACCAACTAC	131	61.31
TCACCACACTATCGGCTCTTCG	371	61.12
AAGCTCTCCAATCTCGTCCA	1554	56.11
GAACAAGCCACGTCATCTTCTGC	172	61.95
TTCTTGTTCCAGATGAGCCGTA	453	58.44
CGACGATGGAAGGAGAGGAG	537	58.41
CGACGATGGAAGGAGAGGAG	384	58.41
CGAGAATTGTTACGACGCA	52	59.42
CATGTGGATGATTATAGACGTGCTA	602	56.98
TTATCATTCTTATGGACGCAGATC	301	56.2
GATGGTTCGACAATCATGGTTCC	182	61.24
TCAAGAATAAGGAACAAGTCGGA	299	56.71
TCAAGAATAAGGAACAAGTCGGA	495	56.71
GCAGTCAAGATGAGTGATTGTGA	315	56.53
AATATGATGTTGGCGGATGCA	3319	59.76
AAGGCAGAGAGAGATAGACGGA	3072	56.05
AATATGATGTTGGCGGATGCA	3319	59.76
CGATTGTGCTCAAGAACAGGAAG	57	59.88
AAGAGAAGATGGAGATAATAAGGAGGA	499	57.36
AAGAGAAGATGGAGATAATAAGGAGGA	499	57.36
ATGTGTGCTCATACCGTATTCCG	2589	59.74
ATGTGTGCTCATACCGTATTCCG	2583	59.74
ATGTGTGCTCATACCGTATTCCG	2775	59.74
AAGAGAAGATGGAGATAATAAGGAGGA	499	57.36
AAGAGAAGATGGAGATAATAAGGAGGA	499	57.36
AAGAGAAGATGGAGATAATAAGGAGGA	499	57.36
AAGAGAAGATGGAGATAATAAGGAGGA	499	57.36
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AAGAGAAGATGGAGATAATAAGGAGGA	499	57.36
AAGAGAAGATGGAGATAATAAGGAGGA	499	57.36
AAGAGAAGATGGAGATAATAAGGAGGA	47	57.36
AAGAGAAGATGGAGATAATAAGGAGGA	47	57.36
AAGAGAAGATGGAGATAATAAGGAGGA	47	57.36
AAGAGAAGATGGAGATAATAAGGAGGA	47	57.36
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AAGAGAAGATGGAGATAATAAGGAGGA	47	57.36
AAGAGAAGATGGAGATAATAAGGAGGA	47	57.36
AAGAGAAGATGGAGATAATAAGGAGGA	47	57.36
AAGAGAAGATGGAGATAATAAGGAGGA	47	57.36
GAACCTGTATAATGGACCAGAAGATTC	596	58.49
CGATGTGGCTTCTCCGAGTTC	120	60.71
TACTGGAGATTTCGGTTATGATTACAC	484	56.59

GGTGGTGAAGAGATTCAGGCA	1766	58.72
GGTAGAGATGCCAACTGCGA	66	57.51
ACCACCACTACCACCACATCAC	31	58.15
CGCACAAGAACCTGCACCAG	374	61.37
TTGGACAGAGTTGCAGTTGACG	664	59.91
AAGGCTATTGAACGAGTGATTGC	284	58.46
CGACATCATACAGAGATTGTGG	111	58.97
AACCGTGTACTTCGTGCTCTG	823	56.64
AACCGTGTACTTCGTGCTCTG	823	56.64
GGATATGCTTCTTCTTCAACTGC	626	56.02
GGCACTCATTGATCGGCTAT	175	56.32
CGTATGTACCAACTCGGCAAG	553	56.95
GGAGGCTGTTGAATGTGATGC	2060	59.14
GCCGAGAAGAAGGTTGTTGC	260	58.52
ACACATCAACATCATCTGCTCATC	246	57.67
ACACATCAACATCATCTGCTCATC	173	57.67
ATGATGATTCTTCTCTCGGCGACT	1184	61.33
AATCGAGAGAATCGTCTATGCG	1098	57.24
AATCGAGAGAATCGTCTATGCG	1089	57.24
TACTACGGCGGTGATTGGTC	161	57.17
TACTACGGCGGTGATTGGTC	152	57.17
CCTAACTGCCACAGAATACAGATGT	736	57.52
AACAGACTGGAACCTCGACCAAT	344	56.41
GACCGCATATTCTCGTCCTG	314	56.83
AGGCATTGGAGAGGAGGCTGT	382	61.07
GGATAATGTGCGGAGCCAAC	1810	58.99
ATCATTCTCCATCGCCAGCA	226	60.14
GTTCAATCGGCACTCGGCTT	1470	61.08
GTTCAATCGGCACTCGGCTT	1470	61.08
GTTCAATCGGCACTCGGCTT	1470	61.08
GTTCAATCGGCACTCGGCTT	1470	61.08
GAGATGTCGGATATGTGAAGGATAG	262	56.94
ACTCCGAGTCCGTTGTCCTC	1739	57.77
TCTATCAACTAGAAGGACAGGCTCTC	1398	57.58
ACTCCGAGTCCGTTGTCCTC	1799	57.77
TCTATCAACTAGAAGGACAGGCTCTC	1458	57.58
ACTCCGAGTCCGTTGTCCTC	1577	57.77
TCTATCAACTAGAAGGACAGGCTCTC	1236	57.58
ACTCCGAGTCCGTTGTCCTC	1637	57.77
TCTATCAACTAGAAGGACAGGCTCTC	1296	57.58
ACTCCGAGTCCGTTGTCCTC	1428	57.77
TCTATCAACTAGAAGGACAGGCTCTC	1087	57.58
ACTCCGAGTCCGTTGTCCTC	1463	57.77
TCTATCAACTAGAAGGACAGGCTCTC	1122	57.58

ACTCCGAGTCCGTTGTCCTC	779	57.77
TCTATCAACTAGAAGGACAGGCTCTC	438	57.58
ACTCCGAGTCCGTTGTCCTC	710	57.77
TCTATCAACTAGAAGGACAGGCTCTC	369	57.58
ACTCCGAGTCCGTTGTCCTC	313	57.77
ATCATCATCATCATCGCAGCA	83	58.64
AATGACGAGGAGACTGTTGTAGAGA	418	57.31
CGGCTTCAGTGGCTCCTCTC	77	61
GCAAGCTGCAGACTGCGATT	899	60.26
ATAGACAGATGCTCAATGGACCGA	927	60.78
CAGCGGTATCCATCTTATCATTATCC	80	59.91
GAGACTGGCGACATGCGATG	420	61.34
GAGACTGGCGACATGCGATG	219	61.34
CAGCGGTATCCATCTTATCATTATCC	1601	59.91
TCAGCGTTGAACACCACAGA	3088	57.38
TCAGCGTTGAACACCACAGA	3236	57.38
TCAGCGTTGAACACCACAGA	3206	57.38
TCAGCGTTGAACACCACAGA	3209	57.38
TCAGCGTTGAACACCACAGA	3088	57.38
TCAGCGTTGAACACCACAGA	3236	57.38
TCAGCGTTGAACACCACAGA	3206	57.38
TCAGCGTTGAACACCACAGA	3209	57.38
TCAGCGTTGAACACCACAGA	3088	57.38
TCAGCGTTGAACACCACAGA	3236	57.38
TCAGCGTTGAACACCACAGA	3206	57.38
TCAGCGTTGAACACCACAGA	3209	57.38
TCAGCGTTGAACACCACAGA	2405	57.38
TCCTCTTATCCTCGAGGAGTAGTACAC	295	58.53
TTGACTACATACCTACTTGCTGCCTACA	278	60.39
TATTCGGTAGGTAGGCCAGGCA	85	61.54
AAGGTAGGCACGAGGCAGGT	78	59.72
TTCGAAGCAGGCAGGCAGAT	70	61.87
TAACCTCGCCTGGCTAATGC	81	58.92
CAAGGAGGTACATTGAGGCAA	190	56.44
GCTCAGTTCACACTGGCGTT	162	57.54
TTCAATCAAGCCAGCCTCTC	79	56.67
CTCTTCGCAAGCATCCAGAA	963	57.78
CTCTTCGCAAGCATCCAGAA	819	57.78
CTCTTCGCAAGCATCCAGAA	964	57.78
CTCTTCGCAAGCATCCAGAA	1281	57.78
CGAGAAGCGGAGCCTACAGA	8300	59.3
CGAGAAGCGGAGCCTACAGA	8306	59.3
CGAGAAGCGGAGCCTACAGA	8309	59.3
CGAGAAGCGGAGCCTACAGA	8315	59.3

CGAGAAGCGGAGCCTACAGA	8300	59.3
CGAGAAGCGGAGCCTACAGA	8306	59.3
CGAGAAGCGGAGCCTACAGA	8309	59.3
CGAGAAGCGGAGCCTACAGA	8315	59.3
TTCCATCGTGAACGCCACAA	379	61.96
AAGTATGGAGGTGGTCAGAGTGG	340	58.14
GCATCTCTGGCAACTTGTTCTG	70	58.59
GATGAATGGACGGAAGATGTG	2806	56.5
GATGAATGGACGGAAGATGTG	2904	56.5
CTGAGAAGCGACTGATGGATG	468	57.09
CTGAGAAGCGACTGATGGATG	468	57.09
ATGGATGTATTATTGCTGGTTATTGTG	1087	58.32
TCACTGACAATGAAGGTGAATCC	630	57.63
GAGTATAGTGGAGATGATGATTCTGGAG	77	58.69
GCATCAGCCAGAACAAGAGC	530	57.22
GATGGAGGCGATGAGTATGC	193	56.76
CCTTGGTGATCGCTGGAATG	671	60.03
GCTGCTCCTGCTAGTTCACC	782	56.36
GCTGCTCCTGCTAGTTCACC	782	56.36
CCTTGGTGATCGCTGGAATG	671	60.03
CTGTCAGCAAGATCGCCAAG	340	58.2
AATCACAACATCTCGGTCGTC	993	56.15
AATCACAACATCTCGGTCGTC	993	56.15
TCGGATTGTGTCTGTTGGAA	601	56.08
TCGCCTTCTCACCCTCTTCTC	451	59.59
ACGACGATTGCCTCAGGAAT	182	58.2
ACGACGATTGCCTCAGGAAT	125	58.2
GCTCCAAGCCGCATAACTAC	691	56.26
TATCGCTATGGTGTCGTCAACT	331	56.06
TTATTATCTCCTACTTAACGCTTCCAA	103	57.13
AACACAGGCTTGTGGTCGCT	711	59.36
CACAACAACATCCACGACCA	106	57.35
CACGACCACAACGACTCCTAT	122	56.26
ACAACTACAACATAACAACCGAAGC	308	58.8
GTGTCACAGGTGGCGAGCAG	102	61.45
GTGTCTATCAGCAGCCAGCGT	295	59.11
AAGCCTGTTGATGCCGATTG	827	59.66
ATTGCCAGTTCTTGCGGTTT	190	58.78
TGTCATCGTTGTGCCAGTGC	2925	60.29
TGTCATCGTTGTGCCAGTGC	2364	60.29
TGTCATCGTTGTGCCAGTGC	1436	60.29
TGTCATCGTTGTGCCAGTGC	253	60.29
CAAGGCTGAGCGTGAGTTGA	197	58.75
CAAGGCTGAGCGTGAGTTGA	197	58.75

CAAGGCTGAGCGTGAGTTGA	197	58.75
TTCCTGGTGACTACACATAGCAA	2798	56.12
TTCCTGGTGACTACACATAGCAA	2747	56.12
ATGTGAAGCCGAGGATTGTCTG	519	60.08
ATGTGAAGCCGAGGATTGTCTG	516	60.08
ATGTGAAGCCGAGGATTGTCTG	516	60.08
ATGTGAAGCCGAGGATTGTCTG	516	60.08
ATGTGAAGCCGAGGATTGTCTG	519	60.08
ATGTGAAGCCGAGGATTGTCTG	40	60.08
ATGTGAAGCCGAGGATTGTCTG	39	60.08
ATTATTGCTCTTCACTAAGTCTGTGC	207	56.34
ATTATTGCTCTTCACTAAGTCTGTGC	397	56.34
CGACATGGATCTGGATATCGTTCA	276	61.82
GGTGACCGTAGATGCACAGTATC	116	57.25
CCAGATGAGGATGAAGAGGAACA	347	59.16
ATACGACAATGACTGAGGCAGAAGC	728	61.71
AAGTGGTATTGCCTGCGGAA	179	59.17
GAGCCAGAGGAGCCACAAGT	98	58.07
AGCTCTTCCAGATGAGCCAA	305	56.26
ATGAAGCTGGTTGATGCTATGAATC	1569	59.5
AATTCGATATGGCGAACTCG	137	56.44
CTTCGCGGAACTCTCGTCAA	306	60.09
ATGAAGCTGGTTGATGCTATGAATC	706	59.5
GCGTCAAGGAGGAGAAGAAGA	384	57.34
ATGAGAAGAAGCTCCAAGCGT	205	56.93
ATGAGAAGAAGCTCCAAGCGT	248	56.93
GCGTCAAGGAGGAGAAGAAGA	410	57.34
GAGGAGAATAAGCAGCGAGCA	879	58.43
ATATGGAGATGTTGGATCAGTCTACG	771	58.52
ATATGGAGATGTTGGATCAGTCTACG	411	58.52
ATATGGAGATGTTGGATCAGTCTACG	392	58.52
GGTGACACCAGCAGTCGGAA	47	60.67
AGAAGGCCAGACAGGTCGCT	101	59.97
ATCTATGACACTTCAGATTGTACTGGA	382	56.33
CATCGGAACTGCCATCTCGT	452	59.65
CATTCTCGGTCATGGTAGCTCA	47	58.8
CGGTATAGCATCGGCTCTTG	57	57.11
TTAATAACGATGGAGTCATTGAGC	211	56.26
GAATGAATATCCGACAGAATGAGC	31	57.8
TCCAATACAACGATGAGAAGACG	26	57.87
CATCTTCCACTCGTTGCTCCT	60	58
CATCTTCCACTCGTTGCTCCT	66	58
CATCTTCCACTCGTTGCTCCT	60	58
TCCAATACAACGATGAGAAGACG	25	57.87

CATCTTCCACTCGTTGCTCCT	66	58
CAACACTCACGTGTGATAGCTACA	77	56.7
CCAGGTTCTTCAATACGTAGGAGA	315	57.56
AATGAGGATGGATGGTGCTG	404	56.98
TTGCTCAACACGAGATTACTCCA	87	58.5
TTGGCACGACAAGAGGAAGA	500	58.02
TTGGCACGACAAGAGGAAGA	347	58.02
AAGTCATCACAGCATACGAATAGGC	268	59.56
CCAGATTATTCGGATGACTCGT	171	56.81
GACTCTCAGAATTGCTGAGCAGACT	593	59.34
TTGACGTAATTGAGCCACGTAT	115	56.04
TTGACGTAATTGAGCCACGTAT	184	56.04
TTGACGTAATTGAGCCACGTAT	115	56.04
TTGACGTAATTGAGCCACGTAT	184	56.04
AGTGTGTCCATTCCAGGCAA	1548	57.58
GCGTGTATGCCAGAGTGTGA	1385	56.85
AACTATGACGGATTGCCTCAACC	639	60.18
AGTGTGTCCATTCCAGGCAA	867	57.58
TTATGTGTTCTCCGAGTCTGTCAG	2180	57.18
AAGTCGTGCGGTGGAGATAG	866	56.49
ACTTCAGTTCTGTGTGCTCAGATC	191	56.38
AGTGTGCTACCTTCCTCTACCTCCA	159	60.48
TTCCAGTCCGAATTATCCTGAA	144	57.3
CCTGGTGGCTAGTATTGCTCTT	195	56.38
CTAACAATGCGGCAGTGGAA	197	58.38
GAGAAGAGCACGGACGACAA	746	57.61
ATAATCGTTGTGTTGAGCAGAAGGAC	257	60.68
ATAATCGTTGTGTTGAGCAGAAGGAC	257	60.68
ATAATCGTTGTGTTGAGCAGAAGGAC	257	60.68
ATAATCGTTGTGTTGAGCAGAAGGAC	257	60.68
ATAATCGTTGTGTTGAGCAGAAGGAC	257	60.68
ATAATCGTTGTGTTGAGCAGAAGGAC	237	60.68
ATAATCGTTGTGTTGAGCAGAAGGAC	257	60.68
ATAATCGTTGTGTTGAGCAGAAGGAC	257	60.68
ATAATCGTTGTGTTGAGCAGAAGGAC	257	60.68
AATCCAAGGAGTTATGCCTGAAC	410	57.36
ATGAAGTCGCTCGACGAGTACG	246	60.4
ATTGTGTATTCCGAGATGTAATCAGAC	958	57.73
TTGCCGGTACTGTAGAATGCA	239	57.92
AAGAATGAAGCGTGCTGGAAG	310	58.2
ACGATGAGACGATTGTGAGAGA	695	56.04
ACGATGAGACGATTGTGAGAGA	695	56.04
CGACTGCGAATCCAATAGTGC	70	59.32
GAGGACCACTGTGCTCAGATTC	738	57.45

CGTGATTATCTGCTGCCTCAA	5540	57.6
CAACCACCAATCCAACAGAATG	197	58.79
GTAGGTGATGGCGTGGCAAT	2315	59.41
CGGTCACGCAGTAATGAAGGT	260	58.72
CGGTCACGCAGTAATGAAGGT	231	58.72
GGATGAGCCGATGTGTATGTG	445	57.49
CGATCATCTTCTTCCAGTTGC	1052	56.09
CGATCATCTTCTTCCAGTTGC	65	56.09
TTGGAGCACAAGATGGATCG	163	58.24
CGAATCCAGATGGCGATAGAAC	162	59.53
AGAGAAGAGATCGCCAGGAAC	1261	56.3
ATGAGGATACTAAGGAGCGTGTG	692	56.25
GCACTCTTGTTGAGAATATGTCTGTAG	231	56.64
GTACAGACTTAGCTCCATAGCTGGCT	589	59.53
TGGTCATTCAATTGTATTCAACGTG	240	58.4
AGCAGGCAGAGAATCCAGAGA	1210	57.83
GGAGGCCGAACAGATGAGGAT	974	57.73
TCCTCTTGGAATATTATTCCATCTAGG	272	58.19
ACATCAGCGGACAGGTAGACA	561	56.86
GTCTGAGAGTTATCAATGGAACAATG	462	57.03
GGATTGGCTGGAAGATTGGT	552	57.51
TCCTCTATGATTCAGTATATCATCCTGA	258	57.49
TGCATATTATGATAATCCACCGAA	300	57.16
TCGAAGAGAGCTTGGAGTCACA	31	58.81
TCGAAGAGAGCTTGGAGTCACA	31	58.81
TCGAAGAGAGCTTGGAGTCACA	31	58.81
TTCTCAATCCAGTCATCCGCAA	135	61.42
GCTACCTACGTGTTGTACTACAAGACC	93	57.69
TTGATATTGATTATTGCCGAACC	585	56.78
GTCTCAGAACTTGACGAACTTCACT	246	56.98
AATGCAGTCAATCCAATGTGG	288	57
TGATCATGGAGCACATTCTGG	1034	58.1
CCGCCAACAGACAAGTACCT	86	56.4
GACTTATCAAGAATCTCATCACCGA	2469	57.5
GCTCTGGAAGATGGTATAGTGGA	411	56.16
CACCGATGTCAATCTACCGAGT	1031	57.67
CTGCCTAGGTCGTGCATTGG	297	60.22
GTGGCGGATGGTTAGCAAGG	465	61.31
GTGGCGGATGGTTAGCAAGG	416	61.31
ATACACATACCTGACACTGCTGGCT	394	59.96
CAACTTCAATGGTATCACTGGCA	1044	58.62
CGATTGGCTTGGTTACAAGTG	82	56.92
GTATTAGGATTCCGGTGTTAGTTCGG	3061	58.16
CAACTGGCTTCGTATCTCTCT	1467	56.46

CAAACTGGCTTCGTATCTCTCT	1512	56.46
CGACTTGGTGCTCAATGTGC	505	58.88
GAATCTGGTAGGTTGGTTAGGAATG	127	58.09
CGTTAAGTCGATTATGTCCAACG	27	57.41
CGTGTGGATATGTCAATCAGG	807	56.58
CGTGTGGATATGTCAATCAGG	778	56.58
CGTGTGGATATGTCAATCAGG	380	56.58
AGGCGATTGGAGGAATAATTGGTT	1865	61.8
GAACGGCTCATAATCTTGAACGG	461	60.74
GAACGGCTCATAATCTTGAACGG	461	60.74
CAAGCACGACGATGTCACCA	480	60.28
CAAGCACGACGATGTCACCA	383	60.28
CAAGCACGACGATGTCACCA	340	60.28
CAAGCACGACGATGTCACCA	471	60.28
TTCAACTCAACAATTCTGATATTGTTAC	290	56.05
TAACCGTGGATTGGAATCAACG	227	60.52
GGAATCCTTAGGCTCCACCA	644	57.66
CATTCTACCACTGCGATGTG	47	57.7
GGAATCCTTAGGCTCCACCA	644	57.66
AATCCATCGGACGAGATAGTGT	44	56.28
TGTCGGAGAAGGAGAAGGAGAG	4346	58.67
ATGCTATCCGCCAACTCCAC	277	58.61
TAAGATGAATGGCACGGAGAC	296	56.37
AATGACGGTTAGCAGTTGTGGT	984	57.29
GGACAACTCGATGTTACGCAA	1425	57.36
CATTCACTCCTATTGGTTGC	487	56.72
TGGTGAAGAGATTGGAAGGTTG	1515	57.77
CGACGAATGTGGAGCTTCTCAA	107	61.23
CGACGAATGTGGAGCTTCTCAA	217	61.23
ACTTCAGCTCCAGCAGGTCGAG	175	61.9
GGCTGGACCATAAGGAAGATG	201	57.22
GGCTGGACCATAAGGAAGATG	173	57.22
TCCTATCGCTTGTCTGTTCTGT	95	56.19
CGACAGTCATCAGTCACCGA	61	56.7
CGACAGTCATCAGTCACCGA	140	56.7
GCAGATCCACCTTACGGAGTCC	1229	60.79
ATATGAATGAAGATGATACGATCTCTGG	617	58.9
GCCACCGTCAAGTTCCAGAT	479	58.59
GCCACCGTCAAGTTCCAGAT	495	58.59
GCCACCGTCAAGTTCCAGAT	478	58.59
GCCACCGTCAAGTTCCAGAT	318	58.59
GCCACCGTCAAGTTCCAGAT	604	58.59
GCCACCGTCAAGTTCCAGAT	480	58.59
GCCACCGTCAAGTTCCAGAT	495	58.59

GCCACCGTCAAGTTCCAGAT	596	58.59
GCCACCGTCAAGTTCCAGAT	453	58.59
GCCACCGTCAAGTTCCAGAT	442	58.59
GCCACCGTCAAGTTCCAGAT	323	58.59
TAGTTCCAGCGGACGCACTT	417	59.47
TAGTTCCAGCGGACGCACTT	431	59.47
CAGAGAAGCCAACGAGCGAA	510	60.22
TAATGTTGGCGGTGTGAAGC	2586	58.23
CAACATCGGAGATTGCGAGTC	547	59.28
TGTAGTTGACAAATTCACGTCGATCTG	78	56.36
ATGATGAGCACTCCACAGCA	560	56.31
TATTCATATTGGCGTTCGTCGT	46	58.14
TAGCAGAGACGGCAGATGGT	286	57.1
GATGATGGCGACGACGAAGA	353	60.72
ATTCACCAATCAGCATATCATTCG	857	58.87
CGTCGGAGCAGATTCAAGGTG	659	60.36
TGCTCATCTATTCGTCGTCAAG	1752	56.76
TGCTCATCTATTCGTCGTCAAG	1100	56.76
CTGTAAGTGTGGACGGCGAT	380	57.29
CTGTAAGTGTGGACGGCGAT	369	57.29
TCGCCGCTCTTGGATTCTGT	47	61.74
ATCCAACAGACACCAATGACG	955	56.96
GGCGGATGTATATGTGGTGGT	254	58.13
TCTGCTGATGAGGAAGAAGAGGAA	1206	60.42
ACGGATTCCAGCGAAGTTGA	191	59.26
AATTGTCACATTCGATTCACGTC	71	57.59
ATTGGCATATGACGTGAATCG	65	57.07
TTGTTCCAGCATATACTGATGAGG	2452	56.99
GGTCCATATCCAACAACAACACA	1566	58.2
ACTTGCCTTCACGACTTGTTCT	573	56.77
ACTTGCCTTCACGACTTGTTCT	418	56.77
ACTTGCCTTCACGACTTGTTCT	370	56.77
TATCTCTCCTTACCATTCCATCACTG	40	58.62
TGGAAGAAGAAGCCAAGAACCT	278	58.13
AAGCAACTTGTGGCAGGAGA	403	57.13
TTGCTGATCGAGAGAAGAAGAGA	491	57.19
GCATGGAATCGAGAATGATGT	77	56.14
GAGGACACAGGAGCCGACAA	166	59.81
TTGCCATCGGAAGTGTTGAATC	740	60.79
CGGTCTTCAGGCTCTCTACCT	167	56.4
ACCGTCGCGTCTCTGGAATC	141	61.13
ACCGTCGCGTCTCTGGAATC	96	61.13
GAATTCATCTTCTGTGGAATGTGC	1563	59.99
GAATTCATCTTCTGTGGAATGTGC	1860	59.99

GAAGTTCATCTTCTGTGGAATGTGC	1598	59.99
GAAGTTCATCTTCTGTGGAATGTGC	1563	59.99
GAAGTTCATCTTCTGTGGAATGTGC	1860	59.99
GAAGTTCATCTTCTGTGGAATGTGC	1598	59.99
CCAACACAACCGTCAATAAGAAG	622	57.36
TGTGCTTCATCTCTCCAACGG	1571	59.82
CTTCTCCACACTTCCATCTCTTCG	302	60.22
ATTCCAGCGTCCAAGTTCAC	447	56.3
ATTCCAGCGTCCAAGTTCAC	447	56.3
TTCAAGAGGAGCACCAAGAGG	1762	58.12
TTCAAGAGGAGCACCAAGAGG	1775	58.12
CTATGGTATTGATTATTCGGCTGCT	135	58.69
ATGTGTCGGATTGGTTCGCA	422	60.87
ATGTGTCGGATTGGTTCGCA	422	60.87
GATGTGGACACTGGTGGAGAG	554	56.55
GCCGATTCCACTCAAGGAGATG	1116	61.76
TTGTGCGATGGAGCTGTATTGTG	580	61.85
CTATTGGCGTTGGAACAGTGA	607	57.36
GAGGATTGAAGACTTATGGAGTAACG	1022	57.62
GAGGATTGAAGACTTATGGAGTAACG	1022	57.62
GCAGAGGAATGGAAGTGTGAGC	115	59.84
GCTTAGACCAAGGCAGATTGTG	3924	57.63
TTGCACACATTCCACTACGG	566	56.65
TTGCACACATTCCACTACGG	590	56.65
TTGCACACATTCCACTACGG	560	56.65
TTGCACACATTCCACTACGG	584	56.65
TACTCCGATGACCTATAAGCGTTC	749	57.6
ACTACCGTGGCATTCTCGCA	116	60.23
CCACCACAACAGGATGATGTC	605	57.27
CCACCACAACAGGATGATGTC	860	57.27
CCACCACAACAGGATGATGTC	566	57.27
GCTTGCTGTTGAGATGACGA	925	56.14
GATGAGGATTGGATTGATGAACA	775	57.46
AATTGAATCTGGTTCCACTTCG	280	56.84
AATTGAATCTGGTTCCACTTCG	152	56.84
CTCAGTTGGCGTCAGTGTCC	472	57.88
CTCAGTTGGCGTCAGTGTCC	466	57.88
GGCGGTTGTGGTTGATAGTGG	610	61.09
GAAGCAGCGAATATTCAAGCA	197	56.93
GGCGGTTGTGGTTGATAGTGG	125	61.09
TGCATGTTCCAACCTCTCTTCAATC	478	59.24
TTGAACAATAATAATGGCGGATT	289	56.41
TCCGAGTGGATAAGGATCGA	165	56.74
CGCTACGCTCATCGAGACC	235	61.76

CGCCTACGCTCATCGAGACC	235	61.76
CCAGAGGAGTATGCGGAGAA	1385	56.55
CCAGAGGAGTATGCGGAGAA	434	56.55
ATTGGATGGAAGTCCGAGA	372	59.08
ATATGCTGTTGCTTATGCTGAATC	533	56.42
CTATGAACCGACGTGAGAAGAGC	28	59.03
GTGCTCCGAATGAGCCAGCT	62	61.4
TTAGTGAGGCTGAATGGAGACG	178	58.08
GCTGGTTAAGCTGGCTGCTC	619	58.82
GTATGCCGTTGTGTGCGATT	528	58.11
GTATGCCGTTGTGTGCGATT	288	58.11
GTATGCCGTTGTGTGCGATT	250	58.11
ACGAAGCACAGACAGAGCGA	490	58.35
GCAGGTTAGAGGACGACAATACAC	269	57.91
TTGAATTCGCCAACGATCAC	571	58.15
CGTCCGCTTCCTACGATGATC	31	60.54
CGTCCGCTTCCTACGATGATC	31	60.54
GCCATCCAAGAAGCCAAGAG	274	58.47
TGAGCAAGAAGATGAGGATGACT	493	56.78
AATGTGTGTCTTACCAGGAACTCG	74	58.25
GCTTACTTCGAGCTTCATAGGC	367	56.31
GTTGGATGCACCACCACTTG	383	58.42
GAATGAAGCACGTGACACAACA	169	58.28
TCTTGCCATCTGCTGCTGCT	789	60.79
AGAGCCATTGATCTTCGTTTCG	2352	58.01
AGAGCCATTGATCTTCGTTTCG	2352	58.01
CGACGCATCTCTCACCACAA	241	59.41
TCTCCGTACCAATATGGCGACT	48	59.46
GATGAGATTAACACAATCAATCCATC	81	56.75
TTGGATGATGAAGGAGTCGCA	1821	60.16
GAATCGTCTTGCTGCTATGCC	1416	58.55
GAATCGTCTTGCTGCTATGCC	1416	58.55
CCGATTATTGGAATGCAGGTG	26	58.89
GAACTGAGATTGCGTCGGAT	141	56.39
GAAGAGAAGGAACTGAGATTGCG	135	58.28
TTGCTCTCATGGAGATGACTGA	745	57.07
GATCCTGAAGATGTGATGCTCA	317	56.39
GATCCTGAAGATGTGATGCTCA	317	56.39
GATCCTGAAGATGTGATGCTCA	317	56.39
GATCCTGAAGATGTGATGCTCA	317	56.39
TTCTCGTCATAAGCCTGTCGT	1281	56.19
TTCTCGTCATAAGCCTGTCGT	1227	56.19
TTCTCGTCATAAGCCTGTCGT	1173	56.19

TTCTCGTCATAAGCCTGTCGT	1378	56.19
GCTGATAGAGACGGAGACGGA	513	58.09
CGTAACTGCTATCCATTATGCG	127	56.28
ACAGCCGCCATCCTCCACTA	2452	61.5
CGAGGCGTGGAGATTGTGTT	154	59.69
AAGGAGTTGCTCATTGTTGGC	1003	57.92
AAGGAGTTGCTCATTGTTGGC	1003	57.92
TTGTGCAATTGAATGATGGACA	298	58.47
CAACTCCACATTATCCGCCTT	47	57.68
CAACGAGAATTGATTGGCTACG	597	58.38
CAACGAGAATTGATTGGCTACG	597	58.38
CAACGAGAATTGATTGGCTACG	583	58.38
CAACGAGAATTGATTGGCTACG	583	58.38
ACGCAGAAGGATATGGCAGA	1289	56.98
ACGCAGAAGGATATGGCAGA	1253	56.98
CGAGATGGTTCAGGTGCTTG	133	57.89
TCGCCGAGCATCGTACTGA	497	61.41
CAAGAGGAGGATATAATAACCGTGA	274	56.66
CAAGAGGAGGATATAATAACCGTGA	274	56.66
CAAGAGGAGGATATAATAACCGTGA	469	56.66
GATCCGATGCCTCCAAGAGC	975	60.65
GATCCGATGCCTCCAAGAGC	1020	60.65
GCTCAGCATGGAATGTTCCG	416	60.33
TTGACGATAATGAAGGTGATGAAC	939	56.82
CGGCACATTCTCGTATTCGATT	297	59.93
AGACTACGCTCACCTCGGCAA	241	60.89
AGACTACGCTCACCTCGGCAA	241	60.89
CGCTGTTATTCTGGAAGATTCTG	738	57.65
AGCAGATGAGGCGAAGAAGC	64	58.37
TTACTGAATATGGAGATGGAACAGAATC	140	58.91
GGCACAGGAGAATCAGGAGA	148	56.39
CGAGAGAGACACTATCAGACGAGA	293	56.62
CCACGAGTCTGTGAAGAAGGA	139	56.55
CCACGAGTCTGTGAAGAAGGA	224	56.55
GAACTCAAGTGCCGCTGGAA	132	59.95
AATGTCCTCTGATGACGAGATTG	47	56.9
AACTGAACTGAAGTGTCAATGTCAAG	90	57.64
TGGTGATACTGATGAGCGATTAGC	194	59.26
TGAAGACACTGCCGCCGTTA	989	61.3
GTCGTCGCTCTGTTCCTG	101	58.03
AGCAGATGAGGCGAAGAAGC	49	58.37
ATTACGATGCGAATATCCTGATG	201	56.85
TTCTGTCTATCATAAGCCACCATC	1739	56.15
CAACTCACAGACCACGTCGA	604	56.78

TTCTGTCTATCATAAGCCACCATC	1739	56.15
TGCTGCGACATCTTCCACCT	568	60.37
AGCTGAACGCTACGAAGAGC	281	56.24
GAAGGAGATTCCGATGAAGAGA	53	56.19
GTTACGAGGAGTTGCAGGCGAT	614	61.42
CGTTACGGCTTGGAGCAATC	158	59.3
ACGGAAGTCTGTTATGGATGGA	162	57.15
GCCGATGAGCCAATGGAGTT	596	60.93
GAGAGGAAGACGGCAATGATAC	77	56.55
GAGAGGAAGACGGCAATGATAC	147	56.55
TTGAATCGACTGAAGTTGCAAGA	662	58.62
CAGAAGTGAGAAGGCTGATTGC	2072	57.82
GCAGCAGAAGGAGAGAAGAATG	704	57.06
CGGATGGATCATAACAATCATCAGTT	264	61.02
AATTGTTCCGTACGGCTTCC	46	57.67
AAGTCGCTTACATCTACTGTTGTTCA	171	57.42
CGTCCGCATTCAAGTTCTCA	256	58.45
AAGGCTTCCACAATCGACAA	230	56.86
CAACCACCACCACAGCAACA	114	60.02
GGCACGGACAGTGAAGAGGA	155	59.81
GGAAGAATTCTCGGATTCC	267	56.22
AAGGCGATCGATAACACTTCGG	109	61.22
CCGATACAGATCGTCAGCGA	434	58.42
AGTTGCTGGAGGCGATGGAG	237	61.25
TCTGAGCAGTCTCGTCGGTT	2003	57.19
GACTACCGCCGCTGTTGCTC	1379	61.79
GACTACCGCCGCTGTTGCTC	1464	61.79
TTCCATAATAATAAATTGTGCAACG	1130	56.69
GATTCACCGACGACGCACAG	371	61.22
TCCAACCTCGTCTCGTCTCC	226	56.46
TCTCCACCTCAACCTACTCTTCTG	58	57.71
CGATCCAGAATGTCATCCACCA	774	61.59
CCGAACCTCTGGAGCTTCAACA	80	60.35
AAGACGCCAAGTTCACAGAGA	448	56.26
CATGGAGAATGATTATGGCGAA	92	58.51
ATCGAAGATTCTTCTGTGCACCTAC	752	58.87
TTCAACACAAGCACGTCATCG	1130	59.33
TTCAACACAAGCACGTCATCG	1491	59.33
TTCAACACAAGCACGTCATCG	1202	59.33
TTCAACACAAGCACGTCATCG	1031	59.33
TTCAACACAAGCACGTCATCG	1151	59.33
TTCAACACAAGCACGTCATCG	980	59.33
TTCAACACAAGCACGTCATCG	944	59.33
GCACTTATAGTTGTGAGCCTGACTT	538	57.02

ATCACACATCCACATTCACCAT	382	56.13
ATCAACTGGTGGGAAGAGAACAAG	740	56.14
AACCAACATCCGAAGTGCTG	100	57.26
ACAGAAGAGAGCAAGCGGATAG	55	56.67
GATTATTGGAAGTTGTGAAGGCGAA	1817	61.34
GATTATTGGAAGTTGTGAAGGCGAA	1817	61.34
GATTATTGGAAGTTGTGAAGGCGAA	1817	61.34
GATTATTGGAAGTTGTGAAGGCGAA	1817	61.34
GATTATTGGAAGTTGTGAAGGCGAA	1817	61.34
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GATTATTGGAAGTTGTGAAGGCGAA	1817	61.34
CTCTTCCAGTTCCAGTTATTGTCAG	1311	57.26
AGGATACTACTGAATCTGCCAACG	929	57.58
TAGTAATGGCAAGTCGGCAAC	912	56.58
TAGTAATGGCAAGTCGGCAAC	391	56.58
TAGTAATGGCAAGTCGGCAAC	199	56.58
CAATGATCTACCGACTCGATGAAC	94	58.64
GGAGCGTTCCAGTCAGTGAG	120	57.03
TTGCTGATGCTAACGCTGGA	830	59.16
GACTTCATTTCGTATTGTTAGACCAGA	1190	56.78
CGAAGAAGAAGGAGAATCAAGAGT	584	56.26
CGAAGAAGAAGGAGAATCAAGAGT	650	56.26
AGATGTTCACCATTCTCCTTCG	119	56.89
CAGTGACCTGGACCACTTG	77	58.73
AACGTGGAGGTGTGCTAGTCA	92	56.93
CGGCGTCTCTAATCTCAGTGC	44	58.69
TCAATGTTACCTATCAAGGCGACA	219	59.51
CGAGGAGAAGGTGGCTGGAA	61	61.22
ATGTTCACTCGGTATCTGCTGGA	427	59.61
AGAGACTATGCTTGGCGATTACC	113	57.65
ATGTTCACTCGGTATCTGCTGGA	167	59.61
GGAGGAAGCTACCGCTGTTC	341	57.62
GGAGGAAGCTACCGCTGTTC	169	57.62
CGGAGACCACACTTGAAGAGGA	681	60.23
GCGTTGACAGGAGTTGAGACA	969	57.53
GCGTTGACAGGAGTTGAGACA	850	57.53
TGCGTACATGAATCGGATGG	44	58.94
CAAGGAGGTCGCAGTGATTATGG	953	61.62
CAAGGAGGTCGCAGTGATTATGG	683	61.62
TGGAGGTGGAGACTCGTGTT	34	56.71
GAAGTCGTCGTCAAGTCTCTC	65	56.28
AATAATGAAGACCGAGCAAGCAA	634	58.92
TTCAATGTGGAGGAGACTCTTCA	282	57.52

TGTCTACAGAGATGTTATCATTGAGCA	1155	58.11
GCAATGTTATTACCAGGAAGTTATCACA	382	59.6
TCTTGTACGTCTTCGGCAGGT	116	58.46
TATGGCGATTGTTGCGGAGA	517	61.06
CTTCATACTCCACGATTAGCCAT	991	56.17
CACCTGATGCTGGAGAGAAGA	790	56.64
GCTCCTTCAGTCTTGCCACCTC	83	61.22
GCCATTACACAACAATTCCAA	235	56.34
TTACGATGCTCATTCTCCTTCTAAC	195	56.98
GGAGAGACATAGAGAGACTCATCGTAG	413	57.13
GGAGAGACATAGAGAGACTCATCGTAG	423	57.13
GAATCTCACCAATCTGCTCACA	846	56.45
GGAGAGACATAGAGAGACTCATCGTAG	361	57.13
GGAGAGACATAGAGAGACTCATCGTAG	413	57.13
GGAGAGACATAGAGAGACTCATCGTAG	423	57.13
GGAGAGACATAGAGAGACTCATCGTAG	361	57.13
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CAAGGTTACGGAAGCGGATA	898	56.51
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CAAGGTTACGGAAGCGGATA	888	56.51
GCAAGGTTACGGAAGCGGAT	913	60.04
GCAAGGTTACGGAAGCGGAT	912	60.04
GCAAGGTTACGGAAGCGGAT	912	60.04
GCAAGGTTACGGAAGCGGAT	874	60.04
GCAAGGTTACGGAAGCGGAT	897	60.04
GCAAGGTTACGGAAGCGGAT	870	60.04
GCAAGGTTACGGAAGCGGAT	887	60.04
AACGCTCACTCATCGCCTTA	77	57.2
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GCTCATCCACCATTCATCAAC	129	56.49
GAAGACCAATGATGCCACCT	1318	56.07
GGTCAACTTCCACAATCTTCTCAA	592	58.29
AATGTAGCGGAAGTTCCATGTG	912	57.75
TGATGAGGATGTCGCTGGAA	628	58.75
AATGCTACCATTATTCCTCGGA	664	56.45
ACGTCTCCGCTGTGACATCG	478	60.84
GCTATGTTGTCGCTAAGAGGCT	67	56.66
CTACTCATCATTCTCGCTGGA	229	58.03
AACACTCACAGCACCACTCA	258	57.79
GCAAGCTGCTCTCAGATGGA	1159	57.86
CCGATGAATATTCCGATAGTTACG	487	57.72

TTCAACGGAACGTAATTCGAA	103	56.93
GTTACATTGTGGTCGTCTATGGCTA	719	58.21
AGTCTGAACACCTTCCAGCGAT	220	58.86
AACCACAGAAGCATGGCGAA	706	60.21
ACCTGTATTGCTTGTGGATT	872	56.46
TGATGACTACGCAGATGATTATGTC	486	57
CACGCTCAACAAGAATCCGA	1118	58.45
AAGTCTGAATCTCTCCGTCGTT	252	57.23
CGATATGATGTCAGCAGTTGATTC	125	57.4
TTGACAATGATAAGCTCAACAATCG	162	59.18
TTGACAATGATAAGCTCAACAATCG	156	59.18
ACTAAGATTCTCAACACGCCGAA	932	58.93
GCACCACCATCACACCTCAC	122	58.37
GCACCACCATCACACCTCAC	122	58.37
GCACCACCATCACACCTCAC	122	58.37
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TATTGGCGATTATTGATGTTGAAG	277	56.98
TATTGGCGATTATTGATGTTGAAG	277	56.98
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GGTCTTCATGTGGTTCTACATTGTC	203	57.63
GGTCTTCATGTGGTTCTACATTGTC	203	57.63
CCGAAGATGACCGTAACCTGT	694	57.66
CCGAAGATGACCGTAACCTGT	205	57.66
GCAACTCCAAGACCTTCTCTATTACC	226	58.83
CCGCTGTTGAGTGTGATAATGG	446	59.09
TGTAGATTATCAGGAGAGATATGGTGGA	672	59.32
TGTAGATTATCAGGAGAGATATGGTGGA	519	59.32
TGTAGATTATCAGGAGAGATATGGTGGA	171	59.32
AATAACGAATGGACTGGAGTTGG	207	58.07
AACACTCAATGCTCTTGTCAATGTC	381	58.37
TTACTGTAATCCATACCTACTGACC	393	56.55
TCATCGGTTAATTCCTTACG	89	56.35
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CCGACCGAAGCAGTTACCGA	59	61.99
AATGAGAGTCATGGAGTTGGAGGA	458	59.94
AAGTGAGATGCCGTGGATTC	235	56.23
ATGGAAGTTGGTGGATACGC	2507	56.08
CGTGGCACAGTTGGCTGAAG	817	61.37
GATCCGTCATATAATGGAGATGCG	38	60.46
GGAACACGCAATGACACAGA	328	56.65
CTCCGTCTCTTCACTGATGGCA	915	61.27
CGATGAGGACAGCGAAGAAC	1435	57.07
CGATGAGGACAGCGAAGAAC	1422	57.07
AACTGATAGGTTGCCTCCTCAA	1387	59.95

ATGAAGAATCCTTCGCATCG	471	56.45
GGAATCACAGGACCATACTCTTACGA	611	60.53
TACACTTCGTCACTGCTACAACCTCG	985	59.53
TACACTTCGTCACTGCTACAACCTCG	853	59.53
TACACTTCGTCACTGCTACAACCTCG	997	59.53
TACACTTCGTCACTGCTACAACCTCG	865	59.53
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TTATCGGCGAAGAGACCTTGA	1099	58.52
TATGACGTCAAGTGTGCGGAA	121	58.78
GGTGGTCGTCTTCTTGTTGGC	49	60.48
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GGCTCCATGTCCATATCATCA	239	56.87
CTCTTCCAGCTCCACATCAACC	2129	59.7
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ATTCTGTTGGTTGTGTCTTGGAG	1052	56.88
ATTCTGTTGGTTGTGTCTTGGAG	1052	56.88
ATTCTGTTGGTTGTGTCTTGGAG	909	56.88
ATTCTGTTGGTTGTGTCTTGGAG	397	56.88
GGAATGCGGTCAATGCCTCT	339	60.93
GGAATGCGGTCAATGCCTCT	87	60.93
AAGTTCAAGGCTCCAACCAA	85	56
CGATATTGAATGTGTTGGTTCCA	186	58.34
AGACTTGTGGATTGGATGAGGA	3064	57.18
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TATTACAATTGCAGCAGTTCTTCTTG	34	57.88
GCTTCCAGCTGTCTGCTTATCG	52	60.11
GCGAGAGATGTCTGGCTGCTT	22	60.63
GCGAGAGATGTCTGGCTGCTT	34	60.63
GGACCGATTAACACGATGGC	882	58.85
GACTTCATCGTTGGCTCTGCTC	1020	59.98
AAGTCTATTATTGGATACCGATGGA	387	56.11
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TTGTTGCGACAGTTGCGGTT	241	61.2
TTGTTGCGACAGTTGCGGTT	120	61.2
TTGTTGCGACAGTTGCGGTT	131	61.2
TTGTTGCGACAGTTGCGGTT	135	61.2
TTGTTGCGACAGTTGCGGTT	63	61.2
TTGTTGCGACAGTTGCGGTT	127	61.2
AACGGTTATTCGACGATGATG	626	56.22
TCATCTGACGAAGACGCCTCT	39	58.63
TCATCTGACGAAGACGCCTCT	36	58.63
TTGGAGGATGAAGAGGACGAAG	151	59.28
AAGAAGACGATGATATTATGGTGGT	385	56.06

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ACGGAGATGTGGATGAATGAG	372	56.09
ACGGAGATGTGGATGAATGAG	372	56.09
CGACAATCCGAATATTGCCA	856	58.04
AACGCCAACTGCTCTCTTCA	113	57.29
TCCTTGGAACACCAACGGAT	79	58.83
ATTCGGAGAGCCTGCTATCAG	746	57.28
CTCGATATGACTGCCGCAGT	506	57.54
GGCGTCAGAGAGTTGCACTTC	447	57.73
CCAAGAGTCTTCTTCGACATCACC	51	60.1
CCAAGAGTCTTCTTCGACATCACC	460	60.1
TCAGGTGTCAGATAGGAAGATCAACT	842	58.4
AACTTCATGTTGCCACTATTCGC	845	59.17
GACTATATCGCCACTATATGAAGAACA	75	56.1
GCACATGAATCAAGTACCAGCA	415	57.38
TCCGATTACGATAGAGTTGGTTC	727	56.14
CGATGTGAAGAGGATGAAGCA	2108	57.49
CAACAGACACCGCTGCTCTCC	552	61.87
CCAGGAGAGACAGGCTGCTAT	371	57.25
TGGCTGATGTTCTGATGATGTC	693	57.19
AACCAAGAGGACGACGTACCG	31	59.99
GGAGGCAAGTCGGACCAATC	97	60.41
TTATCAAGGACACAAGCGGACA	337	59.21
ATAAGGCAACGACGAAGGTG	357	56.46
TTGCCGTCTAGAGTTGAGAGTTC	1375	56.57
CTTGTTGACCTGAATCTATCACCGT	268	59.43
TTCAGGAGGACGAGGAGTTG	210	56.47
GAGCAGAGCAGTGGATCAACG	781	59.59
CCAGAAAGTCGGATGTCAGACTG	119	58.39
AATCGACAGAATGAAGTGGATCG	113	59.08
ACGGCTGTATATTGACAATGTGAA	1427	57.29
CGAACTTCCACAGCCGTGTT	264	59.73
GAGGTCTATGAGACAGCCATGACTA	727	57.63
TCCGATGGTGAAGTGTGAAGA	213	57.72
TCCGATGGTGAAGTGTGAAGA	213	57.72
CGACGATACTTCTGCCACTTG	153	57.12
ATAATGTCAGATGTTCACTAATAGCGAT	195	56.85
AATGGTTCCGTTACACGCGA	384	60.07
GCACAGGAAGATGACAAGACACT	4078	57.07
GCTACACACATCCATATACGCCAT	488	58.83
TGGAGAGGAGGAGGTACTGGA	269	57.38
CACCATTGGTCTCTTGCCCTT	133	56.3

CACCATTGGTCTCTTGCCTT	51	56.3
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CAAGTGCTGCTGCTGCCATA	172	59.74
GACCAGTGCCGAACACCAAC	311	59.98
GCACACAGATACACGAGTGGTC	787	56.78
TCGTCTTGGATTCGGCACAT	65	60.04
AATCAGAATCAGAATCAGCAGTCA	138	56.75
TCGCTGTTGGACTTGATTCTG	768	58.45
TTAGTCATTCAATTGTTCTGCGTT	198	56.76
GCGGAGAATGAGGCAGTTGA	376	59.92
GCGGAGAATGAGGCAGTTGA	453	59.92
TCGGAAGATGATGATATGATGG	72	56.07
CGAGGCTGTCGAGCAAGTTC	247	59.72
ATTCGTGGTCTGGCAATTATTGG	71	60.84
TTGCGAGAACCACTTGCTGA	1476	59.15
CATCCGTTCTTCATCGCACT	179	57.35
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AAGCATCAGAATAAGCAATTAGATGG	249	58.08
CCTACTGCTCGGCGTGTGAA	1974	60.93
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GGTGGAGAACTTCTGATTATGCC	1147	57.78
GGATCACCAAGGACAGCAGA	115	57.23
TGCCAGAGACCGTCGAGCTT	246	61.96
GCGGATGCCATCGACCTCTA	240	61.97
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GATGCTGATGCTCCACCAAT	662	57.13
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AGGCTACTCTTCTGGATTCTATGG	617	56.1
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ATGGTGTTGGCAGTAGAAGAAGAAGC	181	61.95
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CGACGCAGATTACGAGTTCC	318	57.05
CATCTCATTCTCCATCGCCAT	185	58.55
CACTGATGCTCCTGTTGATGG	801	57.75
CACTGATGCTCCTGTTGATGG	816	57.75
GTGTCAGACGTGTATTCTCGGA	525	56.4
AGACGATGGACTGGATGATGA	2318	56.54
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AGCCTCAACCATCGGAACCA	89	61.35

TGCTCACCGATTGTCTTCAGT	186	56.99
ATTCCAGCATTTCGTCCATAAGG	153	58.94
GGAGGAGAATCGGAGGAAGA	1619	56.91
GGAGGAGAATCGGAGGAAGA	1628	56.91
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CGAATGGAGGCGAACGACTT	606	61.07
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TCGATGGAGATGTTGTTGAACA	221	57.66
CGACGAGGCAATGTACTATGTC	150	56.06
GGACCAGACGATGAGGAAGAG	223	57.37
TAATAATGAAGACGAACAAGAGGAGA	80	56.6
GAACTATGGCGGTGGTGGCT	277	60.84
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ATGCTGTAACCTGTCTGCCGATG	364	60.14
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GCTTGTCGGACACAGTGGTC	191	57.71
GCTTGTCGGACACAGTGGTC	191	57.71
GGACCAAGGTGACTTCCTGTACC	52	59.73
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GACGAATCAGTTGAAGCACGA	221	57.55
GACGAATCAGTTGAAGCACGA	170	57.55
GCTACGGTCCTCACAATCGG	53	59.14
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TGCCTCCAACGATTCTCTACA	379	57.76
TGCCTCCAACGATTCTCTACA	425	57.76
TAGACGAGGAGCCAGTATTGTTG	593	57.22
TGCCTCCAACGATTCTCTACA	45	57.76
TGCCTCCAACGATTCTCTACA	42	57.76
TGCCTCCAACGATTCTCTACA	188	57.76
TAGACGAGGAGCCAGTATTGTTG	581	57.22
TGCCTCCAACGATTCTCTACA	45	57.76
TGCCTCCAACGATTCTCTACA	42	57.76
TTGGTGGAGAAGGTGGTGAA	872	57.55
TTCAACTCAACCAGCAGTAGCAC	443	58.19
GTGCCAACCAGCAACACTT	146	59.6
AGTGTGCACCGTGCAAGGAT	272	60.15
TATTGATGATGTGCTCGGTGGT	165	58.92
TATTGATGATGTGCTCGGTGGT	104	58.92
AAGTTATTCTACAGCTCAACTCACA	97	56.63

AAGTTATTCCTACAGCTCAACTCACA	98	56.63
AAGTTATTCCTACAGCTCAACTCACA	96	56.63
AAGTTATTCCTACAGCTCAACTCACA	97	56.63
AAGTTATTCCTACAGCTCAACTCACA	96	56.63
AAGTTATTCCTACAGCTCAACTCACA	96	56.63
AAGTTATTCCTACAGCTCAACTCACA	97	56.63
AAGTTATTCCTACAGCTCAACTCACA	98	56.63
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AAGTTATTCCTACAGCTCAACTCACA	96	56.63
AAGTTATTCCTACAGCTCAACTCACA	96	56.63
GCCTTACCACACCGACTACACA	474	58.63
GCCTTATTCGGAGCAGTGTATC	538	56.68
CCAAGGCGGATTAGTAGGCA	1070	58.78
TGTCAAGAATCGAGCGTCTCTA	198	56.49
CCACAACCATCAGTTCACGA	1091	56.49
TACTTCCTCGCCGCTACTCC	245	58.17
CCACAACCATCAGTTCACGA	1018	56.49
TTCAAGCCGCCTACTACCAA	627	57.14
CCACAACCATCAGTTCACGA	1037	56.49
TGACAGATCAATCGTGATGGAG	427	57.2
TGACAGATCAATCGTGATGGAG	363	57.2
CAGCAGCAGCAGCCTGTCTA	5691	59.08
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CTTATGAGTTGGCGGATGCT	349	56.54
CAGCAGCAGCAGCCTGTCTA	5670	59.08
CAGCAGCAGCAGCCTGTCTA	5655	59.08
CTTATGAGTTGGCGGATGCT	349	56.54
CAGCAGCAGCAGCCTGTCTA	3755	59.08
GCAGGCGCTGTTCAATACATG	330	60.23
GGTGTCTGTCTGCTATTATGAGAAGGA	404	60.01
GCCATTGAAGCTGAGCTACGA	135	59.2
AAGCAATCAGGTGGTTGGAAG	48	57.78
AAGCAATCAGGTGGTTGGAAG	64	57.78
AATTGCCTATCGTCGAAGACA	56	56.1
GGCTCAGGATTATGCTTGGC	68	58.35
AATCTGAAGGAAGCTTATAACGTTGATC	118	59.49
AATTCAATGGACGAATAAGTTACAAG	77	56
GGCTGTTATTCATAGAGCACGAT	103	56.3
CGGAGCTTGTGTTCAAGTGC	541	58.1
TTGATGCTGATAGGAGGAGATGCT	51	60.18
AAGGAACCATGGAAGGCATT	254	57.06
TGTCAATGGTATTCCGAACGAT	861	57.92
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AGAAGCACTAGGAGCATGTGAACA	287	59.08
TATCTCAGCAAGCGTCTCAAGG	1220	58.35
TCCTCAACTCAATCAAGGTGTATC	303	56.06
TCCTCAACTCAATCAAGGTGTATC	153	56.06
CTACATTCATTGGCAGACGCT	686	56.62
AACTACATCCACTGGCAGACG	720	56.42
AATCCACGTCAGCAGAGAGAA	128	56.19
GCCGTCTTGCAAGTTCACCTC	64	59.43
TCAGGAAGATGAAGAAGATCGG	116	57.1
TTGGAGATATGAATCATGCGGAA	1146	60.22
TCAACGAAGATGTGATACGAATCC	107	58.99
CACGAGAAGAAGCATCGAGAA	165	56.91
TTGCGAGATTAGTCAGGCTTAGTG	1183	58.76
CTATCAGGCTCCATCACCGT	187	56.26
TTCCAGCGAATGTCTAATGATG	706	56.51
TTGAGTGCTTGATTGGAGATG	358	58.77
CTCCTTGGCTCAGTGTGGCT	780	59.04
CTCCTTGGCTCAGTGTGGCT	147	59.04
TTGACCTGATGGAGATGTTGAAG	3510	57.78
CTAGGAATGGATGCACATGGA	186	57.09
GCCGAGAATGAACGATGTCA	653	58.24
CAATTGCAAGTTGGTGCTCAA	389	58.41
CGAACATCACCGTTCAATTATCTATC	70	58.88
TTAGAGCGGTGCGGACATTG	590	60.73
AATCGCCAGATGCGTGTTGT	70	60.1
CATGAGAGAGCACGTTAACACC	81	56.12
CTTCTCAGTGAACCTCATAGGTATCTTG	235	58.88
AATGGCACACGACAGGAGAA	694	57.74
AATGGCACACGACAGGAGAA	694	57.74
TTGATAACAGATGGTAATATGACAGATG	203	56.59
AGACTTGTTACATGAATTGTATGGTTCC	413	58.78
GCTGTGCTTACATTCTCTCGGA	98	58.22
GGCAATACTGTCATTGTCCACA	642	57.08
TGCTCATCACAACTGCCATCA	169	59.83
TTCATTGCCGTACCTATTAACAGA	1188	56.7
GCAATGTGTTACTTATCAGATGATACTG	914	56.44
GCCATTCTGCCAACTTGTGAG	393	59.32
TTCAGCTCAAGATGCTAGGAAGA	745	57.17
TTGATGGAAGATGTGGTTAAGGTT	738	57.64
TGCCTATAACAATCGCTAACCAA	168	57.56
CGAAGGATTATACAACAGGAGAGC	81	57.24
CCCACTTAACCACTACCAAGTTG	28	58.53
TTGGAGGCGACTTGTGTGGT	755	60.12
CCTGATGATAGGCCGCACCT	230	60.93

AGGTGCAGTGGTCTGCTTGA	259	58.03
AACCGCCAACCACTTCACAT	83	58.9
CGGTGGCTATGATTACCATGT	283	56.1
GCTCAGTATACCTCTGGACGTTGCT	111	60.93
TCTGGAGAAGCTGGAGCACA	166	58.26
AAGTGTGCCAGATTGGTGTTT	366	56.22
CGCTGGCTAATGATCTTACAGG	779	57.68
GAGGTGGCAATGTGTCGTGT	905	58.01
AAGCAACCTGCTGAGAAGAACA	90	57.87
GAAGTATCTACAGCAGTTGATTGACG	292	57.37
GAAGTATCTACAGCAGTTGATTGACG	511	57.37
GCTCGTCAGCAGCGATGATC	115	60.63
TTGCCTCTGTGGATACACCTTA	154	56.04
GTGCCTGCCTTCTCGTCAACT	193	60.39
GAGACACTGTACACGCACGAA	181	56.01
GCGTTCAAGTGCATCACAGTT	281	57.48
CTGACCGCCTCAACCAGATC	154	59.24
TTATGATGAGCCTGGCGGAT	1272	59.08
TCACATAGGTCATAAGCAGATTCG	800	57.13
AACAAGCGGAACTTCGTCAG	1143	56.68
CCGCTAGGAATGATGGATATAGTATG	141	58.16
AAGTTCCAAGAGGTCAGAGAAGG	251	56.84
AATGATAGTAACGTGAGCCGAGTG	420	58.41
GCAGCGAAGCACAGAACGAC	52	60.69
TCATCCAGCCATGTACTGCCA	26	61.01
TCATCCAGCCATGTACTGCCA	32	61.01
TCATCCAGCCATGTACTGCCA	26	61.01
TCATCCAGCCATGTACTGCCA	26	61.01
TTATTCCACTGGTTCATTCAATG	605	61
CCAACCTGCAACACGTGGAGT	66	58.22
AACCTCGATATCGCCGTGTG	44	59.54
AATTCGTGACAAATCAATCAGATGAAC	579	59.29
AATGGTGTGCTAACAACTATCACAA	145	56.59
CGAGAAGGACGACCGATTACTG	317	59.72
CTGCTGCCACGTGGATTCTC	78	60.37
TGCTGCTCATCCGACGAAGA	229	61.58
ATGAAGATGATGATGTTGTAATGGA	2087	56.24
GCATACGATAAGGTTGCCGAA	1038	58.7
AAGTGTTGTTATGTGTGAGGAGTCG	158	58.31
TTCCGTGCCGATTGTTGTGT	84	60.9
AACATCTAATCTGTCTGGCAGTTCA	266	58.81
ATTGAGTGGAATGGCGAGAA	467	56.8
GAGCCGAATCCACAGAACGA	116	59.77
ATCGACCACAGCTATTGGATTG	247	57.69

CGAAGAAGAGGACGATGCTG	322	57.23
CAGGTGGTGTTAATCAGAAGCA	545	56.52
CTAGCACGGATCAAGGATGG	348	56.83
CTAGCACGGATCAAGGATGG	348	56.83
GATTCGGTGGTCGTGGTCAA	193	60.33
GCATATAACTTCACTCAGGCAACC	2393	57.92
CCGCTGATAATCCGACGCTT	1221	61.03
CCGCTGATAATCCGACGCTT	1239	61.03
AATGCAGAAGACCGGTTATTGG	1153	58.98
CCAACGAGAAGGATGCTCAA	74	57.48
CCAACGAGAAGGATGCTCAA	124	57.48
CCAACGAGAAGGATGCTCAA	92	57.48
CCAACGAGAAGGATGCTCAA	217	57.48
TTGAAGCGGTTGATGACAGAGT	49	58.45
GCTACGGCTACAGAAGTTATTGATG	499	57.4
CGATGATGCCAAGCAGTTCT	187	57.51
GCGAAGAGTTATCCGTGGCA	378	59.8
TTACTCTTCTCTGTCTTCTTCCAA	38	56.68
TTGTGGTAGGCGACTAAGTAAGACG	182	59.73
CGGAGAAGGAGGCACTTACTACA	76	58.58
GCAACAAGCATCGTCACACC	821	58.73
TCGACGACATCATGAAGCTAGA	182	57.2
CTCGCCGAGTTACGCCTCAT	72	61.22
GATCGGAAGCTGGAGGAGAC	211	57.45
CGAGACAACTACACCGATGGA	458	57.27
AATATGGAATTGTTGCTCGTTG	276	59.02
AATATGGAATTGTTGCTCGTTG	350	59.02
AATATGGAATTGTTGCTCGTTG	397	59.02
AAGCGATTGAGCCGACCACT	102	60.73
CGAGACAACTACACCGATGGA	383	57.27
GTGGACGATGTCTTCGATCCT	37	57.65
GAGCTTAATGCTACGATTCGTGGAC	99	61.18
CGAGAAGCCGACACAAGAGA	615	57.77
CGAGAAGCCGACACAAGAGA	627	57.77
CGAGAAGCCGACACAAGAGA	497	57.77
AGTGATGTATGGTCGTATGGTATCTTGT	430	59.1
TCACGACACAGGCACCGAAT	468	61.08
GTGAATCGTATCGAGAAGCAGAT	1034	56.3
TGGACATTATTGCTCAGGACAC	2975	56.3
TGGACATTATTGCTCAGGACAC	2975	56.3
TGGACATTATTGCTCAGGACAC	2483	56.3
TGGACATTATTGCTCAGGACAC	1823	56.3
GGATGAGGATACGAGGAGAGAGG	3346	59.18
GGATGAGGATACGAGGAGAGAGG	3346	59.18

CTCAGATGCTGTGCTCAACG	692	56.72
GAATCGGAGAACTTCATCGTGT	239	56.88
TGGATATCGAAGATATCGTTGGA	24	57.23
AAGTTAGGCTACGTGATACTGATGGAT	279	58.68
TATCGATATAATTCCACTCGCGAA	317	58.69
CAGCAGAGAGCCGTGATTCC	261	59.53
AGCTGTGCAATTGTTATGATGAGC	1369	58.47
AATGGATTCAGGAGTTGACTGG	281	56.74
TATGATGTGAATACTCTTCCGTTGTC	374	57.4
CCAGCCAGTAGTTCAGAAGCCT	261	58.67
ATTGTGCGAGCAGGCTTCAAG	75	56.77
GAGCAATGATTGGTGGAGCA	78	58.24
ACAGATGTATTGATGTGTTCTGGAGT	296	56.89
AGTGGTGACACACTACGAATGC	697	56.33
GGAATACCTACGGAGGTGCTG	282	57.31
ACAAGCATAGGATGTTTCATAAGAGC	731	56.87
CACTTGGAATTGTGCAATGG	258	56.09
GATCATCATTATCTCTTAACACACTTGA	707	56.01
AAGAACATCCAGTCGTCATTATCAC	694	57.31
CATGAAGAAGGTATGAAGACCGA	468	57
GAAGAAGGAAGGATGTGTGGTG	486	57.24
CGACTGACGACGACGATGAATC	24	61.53
ATGATGATACCTGCGACGACA	69	57.64
TCGGCGAGATCTTCAGACAA	68	58.12
CCGAACACTGAAGCCTACACCA	22	61.01
ATACACACAATTAATTCTTCTTGACAA	164	58.3
CCGGAACACTTACCGTACTCC	55	57.22
TGGCAATGAACTGTGATCCTCT	525	58.25
ATATGATCGAGACCGCCGTGA	82	61.31
AAGGAGATTACACGGATCTTAGTCA	170	56.38
TTCAATGGTGTTCTGTATGTGTCG	744	58.54
CCACAACCATGAAGTTCAGATTG	85	58.09
AAGCGTCCTGATGGTGTGTT	40	56.69
CGACTATGATGCGACTCAAGTG	246	57.14
CGACTATGATGCGACTCAAGTG	246	57.14
GGACAGCGACGATTCAAGGAG	115	59.39
GAGCACCAATATGAATGAGCCA	365	58.65
GAAGACGAATCACAGACTCTGAAGG	92	59.42
GGACAGCGACGATTCAAGGAG	115	59.39
AGAGGAGGTGTTGATTGTGTCG	540	57.77
AGAGGAGGTGTTGATTGTGTCG	540	57.77
CGCATCGGATTGTTGAGGAG	1209	60.17
TGCGTCTGTCTCCGTCATCT	830	57.98
TGCGTCTGTCTCCGTCATCT	821	57.98

ACGACGATAACGAGCTGGAG	237	56.65
GTGTGTGCGATGGAGCGAGA	940	61.95
GCGGAGGATTGTTGGCAGAT	274	60.93
CGTTGGATTCTTGCGTGTTT	1473	57.81
GCGGAGGATTGTTGGCAGAT	285	60.93
GCGGAGGATTGTTGGCAGAT	267	60.93
CGTTGGATTCTTGCGTGTTT	1476	57.81
CGTTGGATTCTTGCGTGTTT	1494	57.81
GGCTCGACAAGCAGTAGACATC	61	57.7
GCAATGTTCAAGCCGTTCCCT	228	58.78
CGACGGAGTGGACACAGACG	643	61.29
GGTGTATTATGAGCCAGGAGGA	30	56.81
GCTTCTGCGTACATTCAACAAC	223	56.24
GCTTCTGCGTACATTCAACAAC	190	56.24
GAAGGATACAGATGATCGTCTGCTAA	489	58.87
GAAGGATACAGATGATCGTCTGCTAA	643	58.87
GAAGGATACAGATGATCGTCTGCTAA	489	58.87
TGCTCCTCTTGTTGCTCCGT	220	59.57
TGCTCCTCTTGTTGCTCCGT	220	59.57
CATATCAACAGCAAGGACAACAGAA	94	59.2
AAGGAAGAGTTCAGAGTTGGAGAA	166	56.57
ATATGATGAAGAGGAACATGATGGTCAA	108	61.74
GGAAGACGCCTGTTATTGTATGG	614	58.56
GGAAGACGCCTGTTATTGTATGG	700	58.56
GGAAGACGCCTGTTATTGTATGG	614	58.56
CGGAGTATTACCAAGTTGCTGAA	155	57.17
GAAGATGTCGCTAATGCCGTT	576	57.96
GGAACCTGCCTGCAAGGAACT	89	61.44
GGAACCTGCCTGCAAGGAACT	101	61.44
AACTACAACCACGACCACAGAAGA	550	58.73
AACTACAACCACGACCACAGAAGA	377	58.73
TGCGTTGAGCATTCCAGTCG	299	61.86
GAATGGTGATGACAACCTCGGA	1559	57.02
CTGTGAGCATCGTGAAGTCG	268	56.56
GAGTCCGTCACAATCTGAATGG	1215	58.11
AACGTCTCATCTGCACTTATAGCC	156	57.71
AACGTCTCATCTGCACTTATAGCC	156	57.71
CAAGCGACACGGCTCATACTAC	387	58.54
AAGAGAACTGCCAGACAGCGT	708	57.81
GCCACAACACAACACTACTGCCA	422	58.29
ACTCTGTGTTTCATCGCATTGG	700	57.27
CTCTAGTGTTTCCTTCAATTGTTGG	410	59.1
GGTGGTGGTTATCTTCAGTGGT	262	56.53
GGTGGTGGTTATCTTCAGTGGT	217	56.53

TTATCTGTGCTCAAGCTGTAATAATGC	298	58.99
CGGCTTCATGACATACAAGAATATCATC	129	61.8
CGGCTTCATGACATACAAGAATATCATC	195	61.8
TGGCTGGTGACAATGGAGAA	207	58.65
TTGGAACCTGCCTCTGCTGT	637	59.43
TTGGAACCTGCCTCTGCTGT	681	59.43
TTGGAACCTGCCTCTGCTGT	759	59.43
AACCAAGACGTAGCAGGTGAA	60	56.11
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CTAGTGGAGTGACGACTACGCTT	775	56.55
TGACAATTGTATATGCAGCTCTTGA	183	57.67
CGAGAAGTACTAGATAAGTTGGAGCCA	66	59.41
GAGCTGCTGCAGAAGCATGAG	834	60.01
TTGTTACTTATCTTATTGGTAATTGCGA	109	57.67
CGGAACCACTACGATCTTCTCA	656	57.93
CGGAACCACTACGATCTTCTCA	839	57.93
GCTTCAGCTGCAACTCTACAGG	750	58.04
GGTAGATGATTACAGAACAGCCATT	942	56.61
TGATAGATGAAGGACAATCGGAGT	721	57.79
AGCGACTATTGCCATTCACTTC	342	57.15
TGGTTCACATTGGCTTGGTT	452	57.51
TTGAAGAATCATCCAGAAGTTGG	296	56.97
CCAGCAATTGATCCTATTCCA	906	56.28
TCCAGTGGAACATTATTCACACTT	1030	56.38
TCTAATTGTTGGCGGAACATCTTG	302	61.08
AAGGCGATAACCACGGCAAC	1271	60.81
AAGGCGATAACCACGGCAAC	356	60.81
ATCCATCCATCTCTCGGCTT	613	57.21
ATGATTGTCGCAGCAGTGGA	1426	58.83
ATGATTGTCGCAGCAGTGGA	1426	58.83
ATGATTGTCGCAGCAGTGGA	1426	58.83
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ATGATTGTCGCAGCAGTGGA	1426	58.83
GAATCCAGCCAGAGTTATCGTC	4870	56.55
ATGATTGTCGCAGCAGTGGA	1426	58.83
ATGATTGTCGCAGCAGTGGA	1426	58.83
GGCTACTACGGAGATGCTACCA	2378	57.18
ATGATTGTCGCAGCAGTGGA	1426	58.83
ATGATTGTCGCAGCAGTGGA	1426	58.83
ATGATTGTCGCAGCAGTGGA	1426	58.83
CCATCGGCTGTGATCTCATG	325	58.63
TGAGGCATCGTAGACGCAAC	186	58.47
TTCGTTGATCGTGTTGTATCCG	775	59.46

TCTGCTCACTTCAATCGAACGA	306	59.58
TCTGCTCACTTCAATCGAACGA	306	59.58
CTATTCCAGAAGGAGACAATGAGAA	67	56.87
TTGACAGTGATTGCGGAGGAT	10960	59.13
TTCGCCTATTATCCTCCTCATTACCT	57	60.43
CAGAGGATCATGTGGACCTGGTA	100	59.82
CGGCGAAGAGAGCAAGAACAC	2615	61
CGGCGAAGAGAGCAAGAACAC	1495	61
CGGCGAAGAGAGCAAGAACAC	1441	61
CGGCGAAGAGAGCAAGAACAC	1147	61
CGGCGAAGAGAGCAAGAACAC	883	61
AGAATCAGCCGAATCACGAG	630	56.55
GCGTCGGAGTCGGAATAAGG	271	60.53
GCGTCGGAGTCGGAATAAGG	271	60.53
TCACGAAGATTCTGAAGACTGGTC	1029	58.51
GGCCTGCTACTATCTATGACACTATG	34	56.54
ATTGGCATGCTCTTGTCCTC	98	56.39
CTATGTGGAAGAGCAGAAGGAGGA	580	59.85
GACGGCACAACACTCCTTCA	51	58.29
AAGTCAACAATCGGCGACAA	89	57.81
ATACGGAGTTGTGATGACGGA	681	56.6
ATACGGAGTTGTGATGACGGA	681	56.6
TTGAACAAGTACCAATGACAACAGTG	575	59.04
CAAGGTCTGCACTGCTGTCTG	199	59.2
AATCCGAATGTGAGGAAGACC	214	56.66
ATCATTCTCGGAGCGATCAAG	1588	57.96
TTGCTACGATTCTACAATTCAACG	268	57.26
TGCTTGCTATTCCACGAGA	483	58.06
TTCAACGCAACCAGAAGTCTCAAC	1871	61.44
AACCAATGACAATTACTCGTATTCTCA	148	58.2
ATTGAGAGACCGTACATTGGAAC	120	56.95
CCGAAGACATGGATATGACAAGA	36	57.68
CGAACACGCTCACCGACAGA	1263	61.95
TGAGTTATGGAAGTGATGATACTTGAG	410	59.79
AACGCAAGACGGCTCAAGAC	251	59.07
ATGATACCAACGACGCTCAGG	508	58.67
ATGATACCAACGACGCTCAGG	506	58.67
TGATCTACTTCAATCGGAATCTGA	512	56.66
TTCACAGCCGCTACAACAAG	881	59.88
TTGGCACGCTCATTAATTATGC	938	58.75
ATAAGAAGAATCAGGAGGACGAAG	133	56.07
ATTGGATGGATGGCTGTAAGAC	468	56.66
ATTGGATGGATGGCTGTAAGAC	445	56.66
AACACGCTCCATCGCACATTC	221	61.9

GAGTCGTGGATGGTTCAGGA	193	57.07
TGGAGAGCCTGATAGTGTGGAT	510	57.35
AAGGACTCCGTTGCACTATGC	910	57.95
TACCAGCAACAGCCATACAACA	95	57.84
ATGGAGGAAGAGTGAAGAGGAAG	988	56.79
CAGTTGGAGAAGTTATGGAACGAAT	176	58.65
GCCAAGGAGAACGAGAACAG	821	56.18
CGATATTCCGAAGATCAAGTGTCT	204	57.51
GGCGGATCTTCAGCTTCTTG	480	58.61
GGCGGATCTTCAGCTTCTTG	538	58.61
GGCGGATCTTCAGCTTCTTG	505	58.61
TCCTCACAATCGAAGAGTGCAGTAG	45	60.73
TCGCCTTACTGCAACAGAGC	139	57.87
TATTGTCAGCGAACACAGAGTCC	722	58
TATTGTCAGCGAACACAGAGTCC	809	58
TCTCTCTCGATGATTGATTCCG	52	61.46
AGCCAACACCATACGTGCCA	78	60.92
TCGTCTGCTGCTGTAAGTAGCC	26	58.29
TTGGTAGTCTGACAATGATGGAGA	535	57.35
ATGGATTCCATCAACAACATCA	391	56.32
GCGTGGAGAAGTAGCATACGA	513	56.77
TTCTGTAAGAGGAATCACATGGAGA	255	57.96
CCTATTATCATTATGGTTGGTATCATCC	118	58.14
GGATCACCAAGGACAGCAGA	115	57.23
CTTGTCATAAGTCACCTATTATTCTTG	373	56.88
TTATCCAACCTCGGTGAACAACA	992	56.76
AACAGAGCTACAAGACTCTTCTTCCAAT	551	59.44
TGTAGGAAGTACATTGAGGACAACTC	355	56.75
AAGTTCCTCCATTGTGTCCAGA	1142	57.24
CAGCACACGAACCTCATCCA	1871	59.25
GCGGTTCTGATGGTTGATGG	236	59.9
CTAGCTGCAATTCTCACCGTGA	277	59.12
TCAGGAGAACACGACAACAACG	234	59.77
CTACCGTACTTGGAGGCAGCT	982	57.28
GAATCCAGACTCAACACACATCAC	186	57.17
AATGACGCTTGGTGTGGAGA	760	57.74
AATGACGCTTGGTGTGGAGA	760	57.74
TTGGCAGATCAGAATGCAGAGA	541	59.54
CCAACGACAACTCCAACGGT	272	59.45
AGATATGCGAGGTTACCATCC	22	58.92
CCACGATATGCGAGGTTAC	55	57.63
GGATTAAGAGACGAGACCGGAA	42	58.33
AGACGAGGAGGCTGATGAGA	2626	56.13
AGACGAGGAGGCTGATGAGA	2686	56.13

ACACTCTATCAACCATCTTCTCCTC	230	57.2
CCAACACTCTATCAACCATCTTCTTC	588	58.32
CCATCCTGCAACACCAACTC	89	57.58
CATCCTGCAACACCAACTCG	90	58.73
GCTCAACAAGGAATGAATGGA	324	56.34
TCATCAAGGTGAATTAGATTATAACAGC	279	57.25
TCATCAAGGTGAATTAGATTATAACAGC	577	57.25
GCGGCACACTTCATTCAAGTT	870	57.41
AGAAGCACCACGGAATGTTG	477	57.26
ATTGGAAGAATTGCTGGCAGA	298	58.39
AACTATGCTGGAATCTGGAACAG	122	56.22
GCGTTCATTGAGAAGTATCCGAT	492	59.49
AAGTGGCTCTGGCGGAGAAG	378	60.47
TCGGAACCATCTCAGCATCT	186	56.85
TCTACAATCTTACGAGCGAGGACACT	237	60.59
GTGGAGAGCCAACAACAGTGT	286	56.32
ATTCCTGATGGCTTCAATGC	476	56.29
TCTCCACTACTGAAGCGACTCTC	66	56.61
CAGAGTCTGCGGAGTATGGC	1478	57.1
TTCAACACTACCTCTCGTGGCTT	436	58.94
GATTATGGAGCAGAAGTTCATGGTCA	1064	61.4
GAACAACCTGCCGCCGAGAC	884	61.65
CCTCTGCTCAATTCTCACCTCTT	50	57.79
TCACATACAGAGCAACAGGCAA	97	58.04
CCAGAAGAAGAGGTTATTCCAGAG	1026	56.51
CCAGAAGAAGAGGTTATTCCAGAG	1056	56.51
TGTAGTAGCCGATGATGATACATTGATG	938	61.15
TGGTATTCTCCTGCTCACTATTCAAC	64	58.79
GCACACACCTCAGCTCATAGAG	171	56.3
AACTTGACCGAATTGTTTCGTGAA	237	59.5
TCTGCTGAAGAGATTGCTGCT	363	56.66
TCTGCTGAAGAGATTGCTGCT	503	56.66
GCAAGCAACATCACCAGAAGT	2058	56.53
CAACAAGTTGAAGCACTTCGTGT	1770	58.1
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CGCACAAGTCGTTTCGTCACT	73	58.53
TTGACGAAGGTTTACAAGCA	134	56.48
GAACTGTTCTTCCACGTCAACTC	329	56.61
AATTGGCAACATGATCAGCTTA	884	56.09
GCCTCAGATTCTTCGGAAGTCG	292	59.92
TACCAGATAGTCAAGAGCCAGCA	91	57.78
TACCAGATAGTCAAGAGCCAGCA	63	57.78
AGTATGGAACACCGTTGACATGA	738	57.97
AGTATGGAACACCGTTGACATGA	729	57.97

CATAATCTCTGGAAGATGCCGAA	152	59.19
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AAGGCATCCACAACCAACAC	2057	56.94
AAGGCATCCACAACCAACAC	2552	56.94
AAGGCATCCACAACCAACAC	2463	56.94
CCTGAGCAATATGAAGTTGGAAT	708	56.14
CCTGAGCAATATGAAGTTGGAAT	660	56.14
TTCTCACCGTCTATCTGTGTGTG	193	56.48
AATGTTGAGCCAATCCGTGA	320	57.6
ATTCGTTGAGCCGAGCAAGT	312	58.54
GGAATCACGGAGCAGTCATTG	468	60.62
GAGTGCTCATCGAATATCATCG	378	56.05
TTCTATCGGCTTCTTCGCTGA	358	58.8
TGCCAAGAGTCACATCATCG	999	56.75
CCATCCGTGAATATCCATCG	1260	57.3
AGGCTCGTTGAGGCGAATAGG	84	61.49
CGAATTGAACAAGATTACGGACCA	456	60.97
TTCATCAACTCCTTCTTCAACTTCA	604	58.11
CAGCCAATCATCCAGACGAG	1682	57.83
CAGCCAATCATCCAGACGAG	732	57.83
AACAATGATGACGCAGAAGATG	77	56.45
GGCTCTACTAGCAGCGGCGATA	48	61.7
CGCCACTTGGTGAACTTCCT	112	58.78
TCCAAGTACGGCAGCCAAGA	103	60.34
TGTCATATCATCGGTCCTATAGCATT	119	58.86
TTCACCAATCGCATCGTTCA	110	59.63
GAGAGAGTCGACAAGCTGTGCAA	256	60.69
CTAAGCCACCTCATCAGTGTTATCAC	91	59.14
AAGATCCAACAACCTTGCCATG	244	57.79
ATTCAATGTGTGCCGTGCCA	415	61.86
CAATAGTCACCAGCACCGCTAGTC	96	60.97
ATCGGCAAGACTCCACTCGT	1198	58.35
GGAAGACCGTACCGCTGACA	225	59.69
CGGATGTTGCCAGGCTAGAG	200	59.42
ATATTGCCATGATGCTCCGA	289	57.6
ATATTGCCATGATGCTCCGA	277	57.6
CGATTGGCACAGCAGGTTGT	1173	60.66
TTCATCGTGCTCAGTGCTCTT	334	57.3
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CAATGCGAGCCAATAAGCCT	317	60.34
TGGTCGAACATGGTAGCAGCTAT	341	59.64
AATGAGTAAGTCAATGAATAGAAGCCA	1878	57.69
CAAGGACAGAATCACAATGGC	662	56.72
GGAGGTGACAAGGATAGAATAACG	657	56.98

GGAGGTGACAAGGATAGAATAACG	633	56.98
AATGGAGTTGGAGGACCGAT	382	56.97
TTCAACACCACGTAGAGATCGG	483	58.7
TATTGAGCCATTGGTGTCGA	871	56.18
TATTGAGCCATTGGTGTCGA	892	56.18
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TCAGTTATGGAATATCAGCACGA	2153	56.11
ATTGTCCGTTCCGCAGAGAT	109	58.2
ATTGTCCGTTCCGCAGAGAT	224	58.2
ATTGTCCGTTCCGCAGAGAT	109	58.2
ATTGTCCGTTCCGCAGAGAT	199	58.2
ATTGTCCGTTCCGCAGAGAT	109	58.2
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ATTGTCCGTTCCGCAGAGAT	70	58.2
AGGAGGATGCTAAGAAGCCAGA	480	58.24
ACTTCGGAGGTCTTGAGGATG	463	56.92
ACTTCGGAGGTCTTGAGGATG	485	56.92
CGGTGTCGGTTCAGCACTTCT	296	61.18
ATGGTATTGTTAGCCTTGACGAC	623	56.08
ATGGTATTGTTAGCCTTGACGAC	750	56.08
ATGGTATTGTTAGCCTTGACGAC	741	56.08
GACCATCTGTAGCTCCACCAA	301	56.32
TTGAAGAAGATTGGTGGTGACG	114	58.68
TATGGAGGAGAGGTGATTAGTGTAGA	172	56.4
GCGTACACTGAAGGACTCGGA	360	58.94
TGATGTAGCACCAGAAGATTATGATGA	844	59.87
TTGTAGAGTCGTTGCAATGAGTTC	434	57.26
TTATCTTGCTGTTGGAATGGCT	667	57.52
GCAGGTCTTGGTTATGGTTGTATG	792	58.49
AACAACGAGCCATTGCACTT	744	56.95
GATTGGAGGAGGCGGCTAAG	207	59.76
TGGATTGACTATGGACATGGACAC	50	59.58
TGTTAATCGAGAGAATGTCAACACTTG	28	59.6
CCGTTCCATTCTCTCTCAGCCT	72	60.68
AAGTAAGACTACTGCAAGCAGCTCTAAG	39	58.43
ATCTCATCCATCTCCACCGACT	1387	58.49
ACAGTTATTGGAATGAATCTGACTCG	100	58.67
ATCAACTCCAACAACATTATACATCG	697	57.24
CTGGATTGAGATCATCAGAGAGC	922	56.72
CTGGATTGAGATCATCAGAGAGC	941	56.72
TGGTCATTAGAGAGTGTTCTCATCC	214	57.47
TATCTCATCCACCATTACCAACTCA	446	58.43
TATCTCATCCACCATTACCAACTCA	95	58.43
GGAGAGCATCGTGTTGGAGA	1207	57.39

TATCTCATCCACCATTACCAACTCA	437	58.43
GGAGAGCATCGTGTGGAGA	798	57.39
ATGGTTGTGCGAAGGAGTATCTTGAC	831	61.61
GCATGTTTACAATGTTGGATGT	912	56.92
GCATGTTTACAATGTTGGATGT	772	56.92
GTCAGCAGGAGCACAATCATC	131	56.92
GTCAGCAGGAGCACAATCATC	131	56.92
TGAAGTATCAAGCTTCCAGTCAGA	338	56.96
TGAAGTATCAAGCTTCCAGTCAGA	231	56.96
CGACAAGAGTGGTCTTAACAATGTG	98	58.78
TTATTGCTTCTCGCCGTCTC	39	56.81
TTCTACACGAGCAAGCACGA	275	56.84
TTCTACACGAGCAAGCACGA	287	56.84
TTCTACACGAGCAAGCACGA	263	56.84
TTCTACACGAGCAAGCACGA	263	56.84
ATGCGAATCAAGGAATAAGAACA	279	56.63
TTCCTTCCATCTCTCATTCCAT	51	56.31
TGCCTTATTCTTCTCCTTGCTC	60	56.55
TTCCTTCTTGTTCGCTTATGC	1253	59.34
ATTATGTCAATCTGTGACGAGGAA	29	56.46
GGATGACCGAACAGCCATTC	1083	58.93
AAGTGCGGAGATTATGGACAGG	614	59.09
AAGTGCGGAGATTATGGACAGG	618	59.09
AAGTGCGGAGATTATGGACAGG	714	59.09
AACTGGTACAGGAGAGATCAAGAAG	480	56.09
AATCTCGTTCAATCAAGGATGATC	61	57.3
TTGTTGTGGCTTCTGCTCAA	63	56.65
CACAGGTGTCAGAACGACCA	168	56.6
ACACTCGGAAGACACGGAAGACA	31	61.9
TCAACCTCAGCCGTATTATGGA	56	58.2
TTATGACACACAATCTACACGAGGT	362	56.48
TTGGTGTGCGGAGGATTATCG	1026	57.08
TTGGTGTGCGGAGGATTATCG	964	57.08
GAGAGGCACTGATTCTCATGGAGA	838	60.69
CTCACAAGTTCGTGCGTCAA	255	57.06
CAGGTTCTTAGCAGCACTCTCA	56	56.16
GGCGAGAATGGAGCAGGAGT	473	60.31
ACCAACGATGATGTCCAGAGC	124	58.6
AACGACAAGCCTATCCACCA	138	56.74
CGAAGGAGAACTCAATCATTGTGTC	202	59.99
CGAAGGAGAACTCAATCATTGTGTC	216	59.99
TTGAAGAGCAAGGAGCAGTTGTC	3318	59.64
TTGAAGAGCAAGGAGCAGTTGTC	3318	59.64
GGCTAATATGGCGGCTGGAA	696	60.84

GGCTAATATGGCGGCTGGAA	696	60.84
CCGTTCCGAGCGTAAGAACT	153	58.08
CCGTTCCGAGCGTAAGAACT	152	58.08
CCGTTCCGAGCGTAAGAACT	152	58.08
CCGTTCCGAGCGTAAGAACT	154	58.08
AAGAACGAACCGCCTGTTACAC	35	59.17
AAGAACGAACCGCCTGTTACAC	311	59.17
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CGTTGCTGTGGAGGTGTTGA	914	59.3
CGTTGCTGTGGAGGTGTTGA	914	59.3
CGTTGCTGTGGAGGTGTTGA	914	59.3
CGTTGCTGTGGAGGTGTTGA	914	59.3
CTAATGGAGTTCTCATGCCAAGT	67	56.22
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TTGAGAAGCATATGGATGGACTC	572	56.94
ATATTCTCATTGATGCAGGACACA	210	57.26
GCTTGGAAGTTCTGTAGAGCTTGCTTA	1179	61.47
TTCTTCCGATTCAATGCTGAT	162	56
GAATCTGAATCCTCGTCGCCTT	1475	60.51
TCTGACTTGCTTGCTGACTACTGTT	124	58.46
AACCACACACCACATCATACATCG	705	60.4
AACCACACACCACATCATACATCG	645	60.4
AACCACACACCACATCATACATCG	822	60.4
CCTTCTGATTCTTGGCGTTG	303	57.02
GGATACTGTTCTTGGCGGATGT	233	58.96
AATTGTGACGAATCGGAACC	638	56.04
AAGCAAGCAATAGTAACCATCATCT	373	56.5
AAGTTCTTATTCCGACATGCCTCA	66	59.96
TACAAGCGCGAACTGTATTAATAGTG	196	57.86
CTATGCGAGGAATGTGTATTGGAG	409	58.7
TACGTGCGTCGGAGTAGGTC	714	57.44
TCAACACCGACAGCACGATT	397	58.73
TCAACACCGACAGCACGATT	571	58.73
GAGAGCAACGACCACGACGA	515	60.96
GAGAGCAACGACCACGACGA	341	60.96
AGACATCCTTGCTGATGCTGGA	132	60.73
GATGTGGTCTTATCGGAAGCGTT	529	60.3
ATGGAGGTCTTGGAAGCACTATG	1164	58.28
ATGGAGGTCTTGGAAGCACTATG	1159	58.28
AATACCAATCGGATGTTGGACAA	343	59.08
AATACCAATCGGATGTTGGACAA	257	59.08
CCAATGATTATAGGTGTTGAGGAGA	706	57.34
CCAATGATTATAGGTGTTGAGGAGA	772	57.34
TTGTTGATATATGTTATTCAATCGCA	183	56.6

TCAATATGCCTCTAGATGTCGCT	78	56.84
TATGCCTCTAGATGTCGCTCAAC	82	57.3
CTGCTCAACTTACCTATATCAATTGCC	48	59.49
TTGAATGTGAACATATTGAATATCTGTT	728	56.21
AGTCGCCTCCTTCTGCTCCA	38	61
AGCCGCATTCTTCCACTCTG	92	59.02
AATGATTCAACCTGGAAGAGTGA	133	56.45
ACTGCCAGAATCTGATGTGAAGA	765	57.54
TGAAGCCAACTGACGCACTG	746	59.6
AACATGCTCACACGTCGCTT	73	57.98
CATCATCTTCTTCTCTACTGCTTCT	69	57.58
AATTGTCCTGGTGTCAATTGAGG	890	57.5
CTCATCTTCATCGCTTCCTAATCAAC	130	60.39
ATGCGAACAACGAGAATGAAGT	477	57.49
ACAATACGCTGACGCTCTCC	1899	56.64
CTCGGATCAGCCAATGTCAT	924	57.13
ACAATACGCTGACGCTCTCC	1899	56.64
ACAATACGCTGACGCTCTCC	2041	56.64
ACAATACGCTGACGCTCTCC	2041	56.64
AACGGCACTCCTTCAAGTCTCA	844	59.87
AACGGCACTCCTTCAAGTCTCA	494	59.87
CTCGGATCAGCCAATGTCAT	574	57.13
GGACATCATCATTGCCTCGT	266	56.97
CTGCAATGGAGAATCGAGTGA	1456	57.49
TTCAATGTTGCGTGTGATGTG	369	57.62
GGCCTTATGATTGAAGAACTACA	282	56.21
CGTGAATCCTGACAACTCTCCA	211	58.78
ATCCTGATGGCTTGCTCGTT	842	58.35
AGGATGCTCGTGGATGAGAC	136	56.25
AGGATGCTCGTGGATGAGAC	136	56.25
AATGTATTGCGTGTGCGGAA	489	58.64
TCAACTTCCACTCCAAGATGC	488	56.44
TCTGTTGCCTCCTCAGCCAT	59	59.39
CAGTGACACATTGGCGGTGA	50	60.13
ACACCTGACAAGTTCAAGAATACGGA	51	61.02
TGTCTGCTGTGGTCATTCTCC	398	57.31
TGTCTGCTGTGGTCATTCTCC	326	57.31
GGTGATCCTATTGAACTCTCCTGCT	1516	59.97
GCTCTTCAACATGACTGGTTCA	1801	56.52
AGATGTGCGTCGCAATGGAA	1892	61.15
AGATGTGCGTCGCAATGGAA	1877	61.15
AGATGTGCGTCGCAATGGAA	1892	61.15
AGATGTGCGTCGCAATGGAA	1847	61.15
GCTGTTGTATTCCGCTGACC	1006	56.89

GATAACCATGACCTCCAACAACG	88	59.23
CCGAGGAGATGTTGACGATG	300	57.68
CAGCCACAACAGAAGCAGAAGC	140	61.04
CAGCCACAACAGAAGCAGAAGC	147	61.04
CAGCCACAACAGAAGCAGAAGC	244	61.04
TTACTCGGCAGATGAATACGG	821	56.52
TTACTCGGCAGATGAATACGG	686	56.52
TTGAGGAGAGGAGCAGATGAAG	81	57.36
TTCGGAGCAGTAGGAGTAAGCA	50	57.91
ATGGAGATGCTCAATTCAATTAGAAG	92	58.01
TTGGACAATATTGCTACGTAATGAC	125	56.2
CGAGTTCAACGATATAGTGTGGAT	257	56.1
AAGATGGATGCTCGAAGTGAA	367	56.09
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CCTTATGTTATGTTCAATAGAGACGGA	429	57.9
AATCCTGGAGTTCGGATACGT	314	56.27
TATGAGATGAGAACGCTTGGC	216	56.68
CTCTAACAGTTGCAAGTGAAGATG	253	56.9
TGTCGTTGAGAACAGAAGCCA	744	58.09
GACCACGATACGAGTTGCCA	826	58.17
AGCACCAGGAGAGGCAGGAG	708	60.49
GTCTGTTCTGTGCGGCGTAT	291	57.44
TTGTATTCTATGGAGTCGGCTGA	1149	57.53
TTGTATTCTATGGAGTCGGCTGA	1149	57.53
TTGTATTCTATGGAGTCGGCTGA	1149	57.53
TTGTATTCTATGGAGTCGGCTGA	1107	57.53
CGAGAGGAAGTGGAATGCTTG	2388	58.53
GCGAGACTTGGAATACTTGGAC	1640	56.61
GCGAGACTTGGAATACTTGGAC	1711	56.61
GCGAGACTTGGAATACTTGGAC	1588	56.61
GCGAGACTTGGAATACTTGGAC	1665	56.61
GCGAGACTTGGAATACTTGGAC	1819	56.61
AACACTCTTCTACCGTCGTCA	426	58.45
GACGTAAGAAGAACAGATGATCATAAGC	68	58.88
GGATGAATGATGCATGATCCG	65	59.69
TACGAATACTACAACCATCTGCGA	871	57.56
TGAGTGTAGATCAATGGATACATCAG	189	56.1
GGCTCGTTGGAGTGTCTGTC	185	56.86
TTAAGAAGAGACTTCCAGATCCTGA	739	56.63
TTGTGAATCGTGGAAGATCTCCAG	928	61.27
TGTGCTCAGGCGTATGTTGG	654	59.3
TGAGGTACTCATAGATCTCAATTGTTGC	68	59.91
GAAGAATCGAACCTCCACCGA	919	60.01
CCGTGTTCTGTGGAGCGATT	883	59.69

GGAACGATGACTTGGATGCT	1104	56.23
TTGGTGACAGTGGTGGTGGT	809	58.26
GATTCTTGAAGAGGACATTAACCTACCG	72	61.45
AACCTTGGTGATCGGAATAGTATG	2316	57.22
AATGACCAATTATGAAGATGGAGGT	74	57.92
AGGCGTCACGTAAGAGTTGAGTCA	85	61.13
AATGTTCCAAGTTGAAGGAGGTAC	258	56.53
AATGTTCCAAGTTGAAGGAGGTAC	278	56.53
CACCGTCTGTTAGTCTGTCTTC	1542	56.64
CACCGTCTGTTAGTCTGTCTTC	1536	56.64
AAGTCTCTATCATCATCTCACAACA	33	57.08
ATTGCCTCCATGACAGGACTGA	835	60.46
GCTAATTGAATTCGCGCATT	44	56.69
CTGCTGTCGGACACACAGGATT	266	61.06
CATGAGAACTATCCGTCGAACTGT	1014	58.34
GTTGAAGGCAGTTGGTGGAT	3740	56.14
CTCTCCTCCACCTACAGCATCA	99	58.01
CCACTTCAGCGAGCACATTG	485	59.03
TTATGTTCTCTGTTGGACACCTTACTG	817	58.75
GCTGAGTTATGTTGTGCTGGTG	3289	57.04
GCATCAGTGATTCCTCTATCCTCT	288	56.72
TTATCAATGGTGGAAGCCGTT	6944	58.05
CAGATGCCAAGGAGCCAACT	550	58.88
TTATCAATGGTGGAAGCCGTT	6583	58.05
CAGATGCCAAGGAGCCAACT	550	58.88
ATCGTGATTCCCTCCGTGCT	551	57.31
CTTGAAGAGTTGTCTGATAAGGACTG	535	56.64
CTTGAAGAGTTGTCTGATAAGGACTG	511	56.64
GGAGACGAGTTGTGGACGGA	103	59.66
GGAGACGAGTTGTGGACGGA	103	59.66
TTGTCACGAGATTCGAGATGC	373	57.49
ACTTGGTGCTCCGTCTTCGT	224	58.4
TTGTGATGGATGAGCAGGATAG	500	56.39
TATGTGGCTAGTAGAACCGCTACG	574	58.59
TATGTGGCTAGTAGAACCGCTACG	655	58.59
CGAGAACTCCACATTGCTACAG	396	56.28
GCCTGACGAGACAACAGATGC	1769	59.45
TCGGATAACATTGACACAGAGAGA	444	57.49
CCGTACACCTTCGTGTCCAC	152	57.51
CCGTACACCTTCGTGTCCAC	152	57.51
ATTGCGATTGCTGTCTGGAA	96	57.91
ATTGCGATTGCTGTCTGGAA	156	57.91
CCATTCTCTGGTACGCATT	1464	56.24
GGAGAGCATAATGGCTCAGC	488	56.19

GAGGCACATGCTGCTCCAAC	539	60.38
CGATACGCAGTTAGTGGAGAGAC	621	56.86
CGATACGCAGTTAGTGGAGAGAC	621	56.86
TTCTGGAATGAAGACTCTAACGTTCT	941	56.92
TTCTGGAATGAAGACTCTAACGTTCT	941	56.92
GCCAACCAATCAACTCTTCGT	152	57.78
GAGGCACATGCTGCTCCAAC	539	60.38
GGAGCCAGTTCAAGATGTCAAC	587	57.38
AATGAATCCAGGCAATAGAGGTG	544	58.15
CTCACTAACTTGACAACCTGTTATATGCG	457	58.54
AACAACGAATTCGCAATCAGA	454	56.98
TTACACAATTCGCTTGGA	863	59.81
AAGTTCGTCTTCACTTCGACAATG	169	58.49
CTAAGGAATGGCTTGCCGAGT	55	59.34
TTAAGACTCTGTGCGAGCCAA	706	56.32
TTCCAATCCACCACTGTTCC	247	56.85
AAGGCTTCAATGTCGAGTGTCA	682	58.45
TTAACTGAACCACTGTTATGCGA	68	56.24
TGATTATTACGATTGTCTCCGTGAGC	418	61.37
TATAAGCAGGAGGAGGTGATGAATC	607	58.7
ACTCTACCAAGAAGTTCGAAGCAA	451	57.5
AAGATTGTATGAAGAAGGACATTGTG	484	56.66
CGTCTCTTACTACTTGATGGTTCA	488	57.62
GCGGAACAAGGAATCAGTGG	228	59.12
CAGTGTGCCAACCAACGAAT	197	58.07
CTTCAACTTGACAGATAACGCAGAA	1992	58.67
CAAGAAGAATTCATGTATAGCCAGAA	548	56.95
AATGTTCTTCTGTTCAAGCAATGG	2046	58.36
AAGTTGCTGCTGTGAAGATAAGG	598	56.57
CAGACGAGGAAGCGGAGAATG	193	60.83
ATTATCGGATGAAGGCTATGGA	527	56.39
AACATCAAGAATGCCGAGGA	1465	56.8
GATCATGGCTGGATCTTATATTGC	602	57.71
TTATAATCGACTATCAGCTAAGAGCAAG	101	57.07
GGCTACAACCTTAACCTATACCAACATACC	341	56.12
AGTGATTCTATTAGAGTTGAAGGTCGTG	296	58.5
AGTGATTCTATTAGAGTTGAAGGTCGTG	181	58.5
AATCTGGTGTCAATGAAGTTGTTCT	139	56.99
TTGAAGTTGGTTGAGCAATGC	483	57.48
TATATTCGAAGTGTTCTCAATTAGAAC	343	56.59
ACACTTGACACTCATTCCACAGC	2054	57.84
GTTGTTCAAGCGTTGGCTTG	812	60.25
CGACGCTGCCAATGAAGAAG	551	60.48
GGAACCACCTGTATTGAAGCA	184	56.29

GGAACCACCTGTATTGAAGCA	218	56.29
CGGAATTGGAGTGCAGAAGATC	202	59.67
GAAGATGGTCCGTTGTTACCTCTA	60	57.43
GTACAGTAACAAGTATCTCGGAACCA	826	56.73
AAGAAGTTCAGCAGTCAGCAGTT	3843	56.26
AAGAAGTTCAGCAGTCAGCAGTT	3650	56.26
AAGAAGTTCAGCAGTCAGCAGTT	3780	56.26
TGAGGATAGCGATGATGAAGAAG	3173	57.22
TGAGGATAGCGATGATGAAGAAG	3844	57.22
ATGCCACTTGGTATTAATGTCTTCG	463	59.33
ATTGAACCAGATGAACCACCTC	1452	56.59
AAGGACACCAAGTTCAGATGCT	138	56.56
CGTGGATTGCCTTATGAAGC	1348	56.93
CAGTACCTTCGTCTTCGCTGA	150	56.85
GGAGAAGGAGTCGGAGCCAA	355	60.28
GGAGAAGGAGTCGGAGCCAA	405	60.28
CGCTCAGTATGCGTGCTGTT	156	58.7
AAGAGAGGCATTACAGAGAGC	824	56.53
AAGAGAGGCATTACAGAGAGC	840	56.53
TGCTGCTCTACGGAATCACC	388	57.51
GTGACAACGATTCCATTCCTCT	691	56.74
AACTGTTATCTGGATCAGAGAGAGAGG	88	58.59
GCAATGAGCAAGTATGATGGAG	2515	56.11
GCAATGAGCAAGTATGATGGAG	2526	56.11
GCAATGAGCAAGTATGATGGAG	783	56.11
GCAATGAGCAAGTATGATGGAG	2610	56.11
GCAATGAGCAAGTATGATGGAG	2625	56.11
GCAATGAGCAAGTATGATGGAG	1700	56.11
GCAATGAGCAAGTATGATGGAG	1474	56.11
TACGAGCAGCACACCGTCTGA	166	61.53
TACGAGCAGCACACCGTCTGA	166	61.53
GAGGAGGAGATTAAGACGCTCA	1396	56.44
TAACATGAACTCGAATCCTCAACTAAC	45	57.99
TACGAGCAGCACACCGTCTGA	166	61.53
TACGAGCAGCACACCGTCTGA	166	61.53
TACGAGCAGCACACCGTCTGA	166	61.53
GCAATGAGCAAGTATGATGGAG	1492	56.11
GCAATGAGCAAGTATGATGGAG	867	56.11
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GCGGCTGCTAACATTCAACA	63	58.52
GGAACAAGTGGAATACTGCTGGA	984	60.49
CCTCTCGCATTCACGCCTCT	719	61.38
GGATGTATATTGGATATGATTCTGAGTT	1358	56.15

CACTCAACCAGGCCGATATTCC	802	61.47
TGAAGCGAATCCACTTACGG	346	57.44
AACTGAACGAATGGCTCTGG	643	56.46
ACTCATCCGTGCTGGTCAAC	121	57.16
CGACCATCTCCAACAAGCAA	2528	58.3
GACCATATCACTTCAAGAACTTACATTG	865	57.51
TCGCTGATAACCACAACAATTCTC	2492	57.92
GGCGTCCTATTCCACTCTCG	357	58.35
AATGAAGATATTGTTATGAAGTTGGTTG	67	57.06
CACACTTCGGAACTGCTGCT	50	57.7
TATTCTCATTGTGGCTGTTATTCC	3512	56.13
CACACTTCGGAACTGCTGCT	104	57.7
ACCTCAACATCATCAATCTTCTCG	271	58.27
GCACAGAGCCTTCTTGATTTCATC	119	58.97
ACCTCAACATCATCAATCTTCTCG	271	58.27
GAATGATGAGCAGAGCAATGTAGA	83	57.29
GAATGATGAGCAGAGCAATGTAGA	135	57.29
TCAGAGGAAGAGGATTGGAAGG	446	58.39
CTTGTCGCATTACGCTTCA	176	59.57
GACCAGTTCAAGAGGCGGCTT	78	61.56
TGTCAGAAGGAATCATCGCTAA	334	56.24
TGTCAGAAGGAATCATCGCTAA	330	56.24
CGATGATATGTCAGAGGAGAGTGA	2583	57.06
TCATAGAGCCACGGAAGAGG	645	56.55
TCATAGAGCCACGGAAGAGG	616	56.55
TCGTTCTCTTCATTGCTGTCA	90	59.44
TTACGAGCTGCGAGAAGGACA	448	59.73
TTACGAGCTGCGAGAAGGACA	958	59.73
TCGTTCTCTTCATTGCTGTCA	90	59.44
TTACGAGCTGCGAGAAGGACA	448	59.73
AAGATCGTGTGTTATCTACGGACCA	1046	60.87
AAGATCGTGTGTTATCTACGGACCA	1100	60.87
TGCTGTTGCTGTCTCACTC	170	56.24
GCGAATAAGCTAACGAAGAATGTG	307	58.23
TTCGAGCTGGTCATGTCACA	985	57.32
CACCTCTAGGACCTGCCTTG	318	56.06
CGTACAGTACAACCTGATACAGATGAAGG	1264	58.39
CACCGAGTGTGTCTCATACATCAAG	47	59.57
AGTTCACGGATGTTCCACCA	254	57.42
CACCGAGTGTGTCTCATACATCAAG	45	59.57
TCGAAGTCACCTACCAATTCTG	508	60.1
GCTTCTGGTTCCTAACAAGATGC	128	58.09
GCTTCTGGTTCCTAACAAGATGC	115	58.09
AAGAAGTCGGTAGTAGTGATGAGAGG	88	57.4

CAGGTCTCAGTAATCCGCCAA	496	58.78
CAGGTCTCAGTAATCCGCCAA	496	58.78
CAGGTCTCAGTAATCCGCCAA	496	58.78
CGTCTCGTCACTCTACAATGCTC	760	57.77
CAGGTCTCAGTAATCCGCCAA	496	58.78
CAGGTCTCAGTAATCCGCCAA	496	58.78
CAGGTCTCAGTAATCCGCCAA	496	58.78
CAGGTCTCAGTAATCCGCCAA	496	58.78
CGTCTCGTCACTCTACAATGCTC	1236	57.77
GCTTCAAGTTGAGTTCAGGAT	134	56.2
CCAGTCATATTATGTGTTACGCATC	2458	59.67
GATAACATTGGCAGCGACGA	1184	58.03
CAACACGGCGAACTAACGAA	98	58.42
CCACTCATCATCCACCAACTCC	1128	60.19
CCACTCATCATCCACCAACTCC	609	60.19
AAGAAGAGATTGAAGACGACGAA	44	56.08
CACGACAGACCAGTGTGCCA	255	60.34
CACGACAGACCAGTGTGCCA	254	60.34
ACAAGAGTGAAGAAGATCGGAAGC	487	59.06
CCATCTTCGGTTGTGCCAGT	701	59.55
GATTGCACTGCCGAGTTAATGTAC	1290	58.74
GTGGTGGAGACGAGACATTGAAC	344	59.49
TCAATGGAGAGACAATGGAGAAG	1264	57.02
GCAGGATACTCGGCTGGTGA	1582	59.8
TTGTAGAGAAGACGGTCATTGAGACT	735	58.57
CCGAGCATTGAGCGATTACG	691	60.31
CCGAGCATTGAGCGATTACG	121	60.31
GGATACCGAGGACCGATTCTTC	91	59.75
GCCAATATCAGCAGCCTTCTG	167	58.55
TGAAGGTGCTGGAGGTAGTGA	221	56.99
TGAAGGTGCTGGAGGTAGTGA	221	56.99
TGTAGAACAGCCAACTTCATCG	238	56.67
CAAGGCACCAATGAAGGAGA	172	57.33
AACAACAAGTGTCAGTGCGGTA	356	56.96
CAAGGCACCAATGAAGGAGA	172	57.33
ACTCGCCATACAAGTCTCCAA	915	56.04
AATTGTTTCATCGCAGGTGTTG	872	57.21
TCAAGTGAGGCTGGAGATCATAGTC	311	59.74
GTTCGAGTAACTCACCGCCAA	263	58.83
AACATCCGTACAATCTTGCAAGT	283	57.91
CAGCATTCACCTTATGATCCAAGAGAA	254	59.64
CCACAGGACCAAGCAGGAAT	884	58.59
AAGCGTTGCATAATGACCTGA	220	57.01
ATGAATGAAGACGACGATGTTG	22	56.3

GTAATGTCTGGCACAGCAAGC	21	57.12
AAGATGCTGGTCGCAATGCT	1165	59.43
TATATGGCAGTTGCTGGTCTTACC	580	58.28
TATATGGCAGTTGCTGGTCTTACC	611	58.28
CAAGGAAGATGTACTGTTGGCA	171	56.52
TTGATCCGGCAGTTAGCAGA	121	58.06
ACATCGTCGAGTTGTAAGAAGACC	131	57.54
GTTCAAGGTATCAGCTCCAACATC	112	57.84
GCCGATAACACCAACTGACC	495	56.58
GCCGATAACACCAACTGACC	495	56.58
AGGAGATGACGCTGGACGCT	816	60.9
AATCGTGGCACTGAGCACTT	2569	57
AAGCAAGTCTTATCCTACGTTATGGC	209	59.19
AAGCAAGTCTTATCCTACGTTATGGC	308	59.19
CGAATTCTCAATACATCGACGA	60	56.51
GTTGTGGAAGAAGAATACATTCGTATG	205	58.2
GTTGTGGAAGAAGAATACATTCGTATG	340	58.2
TTATTCAAGGAACGTGGAATGC	386	57.74
AAGAAGGAACCATCAATTCGAGAAG	271	59.94
GTGACACTTACCACCATTTGGACTG	1077	59.3
GGATACTGGATTGGATGAAGGA	3372	56.58
TCAACAACCGAGAATACAACAGAA	874	57.48
ATATTACAACAACGGATCGGAAG	202	56.01
GGACAACCAAGTGCTCGGATG	159	60.08
CCTTCAACAAGCAGAATTCGTAC	452	56.79
CAACAGCAACAACCTCCACAACA	156	58.33
GCCGAGACTTCTCACATTCG	374	57.07
CAGATGTGTCTCCAACAGGAAGATC	27	59.99
TCTCTTGGAGCATCAGAGGAAGA	1174	59.18
TCTCTTGGAGCATCAGAGGAAGA	1214	59.18
TTATGTTCAAGTCGTTCCAATCTCA	168	57.43
GGTAGAGATGCTGAGGTTCTTCCA	556	59.73
AACAATCATTATCACTTATGATCCACA	920	56.81
AACAATCATTATCACTTATGATCCACA	818	56.81
AACAATCATTATCACTTATGATCCACA	1012	56.81
GATACACATGCCACAACCTCCTG	334	58.11
ACTGTGTCAACTGGTAGGTCAAGAG	670	57.58
TGAGAGCAATGATGAAGAGGAA	719	56.24
TCGGAGTAATGTACGATGTGTTG	261	56.38
GTGAGCAACCACTCTACTTGGAATG	400	60.04
TTGTCCAGATTCAAGGCATAAGG	289	57.81
TCTTATTGGATATTCTGATGCAGAGGTT	104	60.46
GCGTCAACTTGATCTACGGAAT	207	57.01
GCGTCAACTTAATCTATGGAATCTTG	225	58.39

CCAGTTGGAATAGTTGGTGGAATG	708	60.41
GCCAACGAAGGAATTATTGATG	841	57.27
TCGATAATTGTGTGCTCACTCAT	1056	56.04
AACAAGAGGAAGTGATACCGAGTC	1180	56.7
GATGATAATGATGGATTCGTTAGTGA	766	57.24
GATGATAATGATGGATTCGTTAGTGA	790	57.24
GATGATAATGATGGATTCGTTAGTGA	813	57.24
TACTACACGACACCGCTTCACG	258	59.81
ATCTTCAACTTGCCGTCCGT	270	58.25
GAGGAAGCGGAAGTAGCAGTGG	431	61.18
GAGGAAGCGGAAGTAGCAGTGG	734	61.18
AGGAGGAGCCAAGCGTCATC	58	60.31
AGGAGGAGCCAAGCGTCATC	58	60.31
ATCTTCAACTTGCCGTCCGT	270	58.25
AGGAGGAGCCAAGCGTCATC	58	60.31
TTGTTGGATATTGGCAAGAGAAGT	302	57.9
CAAGCAGGCGGTTCAAGTTA	376	59.83
CAAGCAGGCGGTTCAAGTTA	487	59.83
CGGATTCGATGATATCGAGGAA	274	59.84
CGGATTCGATGATATCGAGGAA	274	59.84
GGAAGATCCACAAGTTCAAGACG	147	58.74
GGTGTTAAGAATCCGGAGCAA	456	57.8
GATACGGTTGTTAAGACTTACAATGACA	422	57.88
CACGATATGAACTACTGTGAGAAGTCT	559	56.18
CACGATATGAACTACTGTGAGAAGTCT	582	56.18
GCGAAGGAGTTCAAGCCAGA	1422	59.14
GCGAATGTATACTACGACTTCTATCACG	541	59.55
AGTTGACTCCTGGACAAGAAGATGG	743	60.81
TGTCCGAGACTCACACAGCTT	553	57.11
CAGATGAAGCCTTGGCGATG	155	60.31
GATTACCTGATCCATGTCTACGC	297	56.41
CTGGTCACAATGACAACAGTCG	1275	57.73
TCCGAGTCGTCAGCCATCAC	228	60.79
TCCGAGTCGTCAGCCATCAC	228	60.79
TCCGAGTCGTCAGCCATCAC	231	60.79
TCCGAGTCGTCAGCCATCAC	277	60.79
CTGGTCACAATGACAACAGTCG	1392	57.73
TCCGAGTCGTCAGCCATCAC	277	60.79
TCCGAGTCGTCAGCCATCAC	208	60.79
TTGTTGTTTCGATTGTTGTTGCT	552	56.15
GCAATACAACCTCGCCAATGAATC	1066	59.47
GCAATACAACCTCGCCAATGAATC	1422	59.47
CGCTTCATTGGCTACTAGAGTGG	283	59.07
AACTCCACCGCCATTCAAGA	1243	59.12

ATGGATGTGGATGACTTGCC	150	56.81
TGCCTATTCTGGATCAACTATCG	464	57.06
ATTACGGATCTGTGCAATGACC	305	57.55
GAGTGGTCAACGGATAATCAAGA	118	56.86
GGAATGTGATAATGGTGTGGATACTGAC	1406	61.57
AATCTTAGAAGTTCGGAATCTGATGA	419	57.67
CAGGAGGTGATCTGACACTTGA	519	56.41
TTCCTGCCGGACAGACGATT	212	61.48
GTATTGGTGTCTGGTGGTGGAGT	826	58.75
GTATTGGTGTCTGGTGGTGGAGT	900	58.75
ACGCAATGATGAGACCACAA	462	56.11
ACGCAATGATGAGACCACAA	540	56.11
ATCACCTCAGTACGATGGAGTCAG	712	58.29
GACTGGACTCGTCTATCTTGTGTATC	270	56.34
GACTGGACTCGTCTATCTTGTGTATC	161	56.34
GACTGGACTCGTCTATCTTGTGTATC	276	56.34
AGACCACGCTTCGAGGTGAT	176	58.35
GTGAACGAGCCAATAGCGATG	453	59.32
CGAATAATAAGATGTTGTACAAGGATG	70	56.35
TGTTCAAGGTGGCACTGGTC	43	58.14
ATTATTGAATCCATTGCCGAAC	390	56.67
ATTATTGAATCCATTGCCGAAC	390	56.67
ATTATTGAATCCATTGCCGAAC	242	56.67
GGCGAATATTATTAACATGTCTGTTAGG	339	58.53
AGTGGCAACTCAACATTCAACA	461	56.86
TACCAGCACCAGCACCTTATGTTC	1477	61.17
ATATTGTGTCGTCGTCATGGCTAG	53	59.07
ATATTGTGTCGTCGTCATGGCTAG	53	59.07
CACCAATCCATCCAGCACCA	1252	61.29
CACCAATCCATCCAGCACCA	740	61.29
CGTGTCCGACTCTCAACCAG	313	57.88
TAGTCAGGCGACATGGTCAA	143	56.28
GAGATGAAGACTCAGCACGATG	846	56.2
AAGACTCAGCACGATGAGATGG	358	58.01
TTCTGTTAATGCGACATCTTCAAG	510	57.29
GAGATGAAGACTCAGCACGATG	352	56.2
GGCTTCCACAACACCACTCC	1265	58.99
CCATAATCGCCTTCCAGATAGTTG	209	59.82
TTGCGATTCTCACTGCCATT	144	57.91
GCGGATTGTCAGCTATTGGA	72	57.38
TCTGGAAGGAATCACGCAAC	248	57.32
AGTCACAACCTGCTGATAACAACAAG	73	56.43
CCTCCAAGTCGGTTACACAAGT	68	56.89
AACAGAGACAGCATGTATTCCAGA	77	56.7

CAGAAGTTCGCAACAAGAATGGA	1165	60.22
GCAGCAAGGAACCTTCGTGTATG	628	58.52
CCGTTACATTGAGGACTCTCACACA	36	61.22
CCGTTACATTGAGGACTCTCACACA	213	61.22
CTTGCTGGTTGTTGAGTACCTGGT	463	60.41
CTTGCTGGTTGTTGAGTACCTGGT	511	60.41
AATGGATATTCCACAGAGTTGTGC	62	58.08
TCTCAGTGCCTCCAGCGATT	118	59.53
TCTCAGTGCCTCCAGCGATT	189	59.53
ACGCTGGAAGGATTGTGTCA	1251	57.74
CGATGCGAGTGAATGACAAC	75	56.27
CGTACAAGCCGTAGCTCCAA	82	57.67
CACCGCTTACGATGCTGTTG	97	58.94
ACTCAGCCAGCAATCGGTTT	71	58.88
GTTCTTGGATACAGATACATCAAGTTCT	193	56.45
GCCTCCTCCTGTGTCCAAGC	53	60.74
CGCCAACAATCGGTACTGAA	78	58.23
CATTACACTGTTATGTACGATGATATGG	427	56.88
CTGAAGAAGACGGTGACGATG	1237	56.99
TTATTGCAGTTGTTGATAAGGAGAA	155	56.08
ATTGTTGGCGATGATACTTGTG	294	56.3
ATTGTTGGCGATGATACTTGTG	328	56.3
ATTGTTGGCGATGATACTTGTG	211	56.3
AGTAGCCTATATCATTCTAGCCGTCT	802	56.4
CCAGTGATGTGATGTCATATTGG	297	56.44
CCTTCCGTCAATTGTATATTGTGTTG	780	58.41
CCACTGTGAAGATGTAACAATATTCG	625	57.8
CCACTGTGAAGATGTAACAATATTCG	1022	57.8
TGTCTGCCTCACTTATCTGCCA	2778	59.47
GCTGTTGTCATAGTTGTTACTGTTGG	558	57.96
TGTCTGCCTCACTTATCTGCCA	2753	59.47
ACGGAGTTCTGCACGCTCAT	327	59.46
TTGCTGCAATACTCGAATTACTCA	288	57.79
TTGTGCTCCGAGGATTGTTT	590	57.32
GCTGCTGCGTATTCACTGGA	149	58.62
TTCGGACTCACAGCTGCCTT	38	59.57
TTGCGTCAACTATGCTCAGC	675	56.31
AATGTTGCTCGGTTTCGTTCA	305	57.81
GAATGGTTAGCCGACTGGAA	408	56.36
AGCACCACCAGTGCCTCTCA	85	60.42
ACGGTAGGAGAAGTATTGGATAGATTG	1379	58.25
ACGGTAGGAGAAGTATTGGATAGATTG	1379	58.25
TTGGTTGCTGGTACTGCCGTT	52	61.37
CCGTAATCTTAGACCTCCACCA	541	56.87

TGTCAAGGAGAGGAGAAGCATT	388	56.77
TTCAAGTTCTTATCTCTGGAGTCATC	609	56.13
GGTTCCAATCGCTGAACACAG	225	59.18
AAGAAGAGAACGAACGATTGAGG	792	57.72
AACAGAGGACGACTTGGCTTC	1303	57.13
GTTGGCTGGTCAGTTGCTCA	378	58.45
TATGTCAACAAGGCGTAGTTCTACAAGA	33	60.37
AGTTCGGTTCGCTTCAATTCTCT	1172	59.4
ACCAATAGCAACAGCCGAGA	1107	57.05
CGTGGCAAGAGACAAGCGAT	1340	59.98
ACCAATAGCAACAGCCGAGA	1107	57.05
ACCAATAGCAACAGCCGAGA	1252	57.05
GCAGAAGAAGGACAACCGATT	52	57.02
GACTGGTGACTTGGCTAACAAATG	450	57.42
ATGCTGGACTGGTGTGTGC	64	58.16
TTGGTGTTCAATTATGGATTGGAGT	1193	59.49
TTGGTGTTCAATTATGGATTGGAGT	1193	59.49
TTGGTGTTCAATTATGGATTGGAGT	1193	59.49
TATTGGCGTGTATTGTCATTGTTAG	1303	56.99
TATTGGCGTGTATTGTCATTGTTAG	1404	56.99
TATTGGCGTGTATTGTCATTGTTAG	1405	56.99
GATGGTGCTGAAGCCTCGTA	164	57.51
TTGATTCACCTACTGATTGTCTGGA	3305	56.65
TGCTTCCACCAGGCTATCCAT	1732	60.41
TTGATTCACCTACTGATTGTCTGGA	2618	56.65
TCTCGTTGGCTGAAGACACG	280	58.6
TCTCGTTGGCTGAAGACACG	373	58.6
GCACACCTATTCAGTCATCTTCTCCT	416	60.01
ATATGAGCTATCGAGTACTGGACACA	713	57.21
ATATGAGCTATCGAGTACTGGACACA	829	57.21
CACACGTCTGGACAGCATCA	379	57.77
CACACGTCTGGACAGCATCA	47	57.77
TTGGATCAAGTAATGCTCAACAGA	98	57.57
TTGTTGGATTGTGTAGAGTAGAAGAAG	336	56.26
TTGTTGGATTGTGTAGAGTAGAAGAAG	336	56.26
CATTGTGGCTCAGGATAGTCG	608	56.91
AGAAGAAGCGACCAACTGACG	879	58.2
GCCAGCAACACTTCCAGCAT	209	59.84
GCCAGCAACACTTCCAGCAT	213	59.84
GCCAGCAACACTTCCAGCAT	209	59.84
CAGATGACGATGTTACTCAACGATT	509	58.27
TTGATATTCTACCATCTGCTCATCCA	1269	59.82
TTGATATTCTACCATCTGCTCATCCA	1269	59.82
ATGGTGGATGACAGATGGAGTT	514	56.9

ATGGTGGATGACAGATGGAGTT	542	56.9
GTGGTGGTGGACAACAGCAG	56	58.58
GCTTGAGTGAGATGCCTGCT	320	56.81
GTGGTGGTGGACAACAGCAG	56	58.58
GCTTGAGTGAGATGCCTGCT	320	56.81
GTGGTGGTGGACAACAGCAG	56	58.58
GCTTGAGTGAGATGCCTGCT	320	56.81
CACCAACAATGCCGCTCAGT	194	60.66
AAGAAGTCAATAATAAACCATAGCCA	452	56.21
CGCTGAGATGCCGAGTTGTG	568	61.49
TCGCATTAGCTCTTGTTGCTT	159	56.61
AAGTGGAGTATGTCAATCAAGTGTC	189	56.61
AGTTCCAGTATGTCAATCAAGTGTC	195	56.61
GCTGGAGGATACGGTGGATA	111	56.17
TTGTGCGTAGCTTATCTTCAACC	619	57.3
GATGGAATCCTCGATTGGAAGTG	661	60.6
GCCGCTCTCCTGGTCTTCTAC	114	59.08
CGGCTATTGCTCGGACCTTC	412	60.66
AATGGCAGCGAATATGGAAG	259	56.44
ATGCCAAGGAGTGCGGAAGT	1314	60.59
ATGCCAAGGAGTGCGGAAGT	1362	60.59
GATCTACTATATCGGATTACGTGGAGA	515	57.14
GACTATTGAGGAGCGTGGA	256	57.51
GACTATTGAGGAGCGTGGA	256	57.51
TGAGAAAGTTGCTCGCATTGATG	987	59.97
TTATTCTCAAGCTGAGCGCTGA	93	58.99
GAAGACCACGGCTCAGATTG	259	56.91
GCAAGAGCAAGACCGCAATC	53	59.55
TTGTGGATTGTGGTAAGGATGTG	561	58.34
GCTTCACACCACTTCACAATCTC	272	57.45
GCTTCACACCACTTCACAATCTC	302	57.45
TCCTCGAATAATCAAGTGGCGACT	387	61.98
CACGATAACTATGAGATGACACGATT	854	57.42
ATGAGTATAGGTTATGATGCTGAAGGTT	1414	57.89
GGAAGTTGGACAGTGATGCC	1200	56.59
TTGTTGGATCGTTGGATGCT	303	57.6
CGCTCCGTTGAGAAGCAGGT	90	61.41
TGCTGCACGACGTGTATGTC	43	57.87
TATGTTCTCAATTGAACTCCATGG	58	56.83
GCGGTCACTAGATGGACGAC	361	56.78
TGGAGCAGTTGATGAGATGAGA	1485	57.07
TGGAGCAGTTGATGAGATGAGA	1484	57.07
TGGAGCAGTTGATGAGATGAGA	1485	57.07
TGGAGCAGTTGATGAGATGAGA	1484	57.07

GCTCCAGTGCCACTCCATCA	180	60.79
GCTCCAGTGCCACTCCATCA	180	60.79
CATGTACTCAACAGCTCCACCA	927	57.35
GCTTCATACAGTTACATGTGTGGTT	295	56.09
GCTTCATACAGTTACATGTGTGGTT	295	56.09
CAAGATGAGGACAAGGAGAAGC	54	56.77
ATGCTCTGGCGTATCTTCTTGC	436	59.48
ATTCCGAGTTGTGAGACGACCATT	731	61.84
TAACGGCTACTGACGACGGA	90	57.99
TTATTCCGCCACCACCTTCC	3473	60.62
TTATTCCGCCACCACCTTCC	3473	60.62
GTTGCGCGCGTACTAACAATG	93	60.27
GGCATCGGCAATGAAGATTC	84	59.06
TCTACAATGGACCTAATGAACGG	95	56.84
CTTCAGGCAGCAGTTCAAGC	434	57.44
AATGGAGCCGCTTCCTCAAG	560	60.29
AATGGAGCCGCTTCCTCAAG	553	60.29
AATGGAGCCGCTTCCTCAAG	599	60.29
CCATCAGGAACATCACGAGAA	199	57.18
AAGAAGATGAGGAGGAGCACAA	81	56.77
GCATACAATCATCTCTCGTTCCG	60	59.58
GGTCAACAACCTCTTCTTCTCATT	98	58.37
GAAGAAGAATCTGAAGTGCCGCTT	51	61.09
TTGCATATTGTCTATGACTCTATCTCTG	51	56.29
CGATGTATCATAACACCTGTCACC	56	57.07
CGTCTGCTCTCGGATAGTCC	81	56.14
GGCAATCACATCATCCAAGTTC	970	57.97
GGCAATCACATCATCCAAGTTC	970	57.97
GGCAATCACATCATCCAAGTTC	1078	57.97
CAGGCGTAGGCAGAAGACAG	259	57.32
CGCGCATATCGGAAGAAGCT	74	61.28
AGACACCTCACATCACGGAAGA	89	58.25
GCTCACAGGCATTCAACATCTGAT	147	61.31
CTCCTCCACCTCCTCCATCA	1058	58.61
CAATGGCAACCGACTGTCTG	45	58.73
TATTCATCACATCTGCCTATTATTATCC	254	57.02
AACGATTAAGCCGCCAGCAA	173	61.51
TACAGGAACAAGGTGGTGGTG	519	57.03
TCAAGTTGGAACCTACAATCGG	786	57.72
GCTCTTCCAGGCGTCTATCAAC	63	58.98
CTTCATCGTCGCCTTGCTCA	198	61.02
TTGACTCTTCATCCAGTGAATCTTG	87	58.43
GATAAGAACGGAGGAGGCGAA	120	59.28
GTGGAGGTGGCAATGGAGGT	114	60.72

TTCTCTCCTTGGCACTGTCAC	41	56.55
TCTTGGTGTTGCCACTGTGACTT	60	60.56
GGTAGAGGTAATGGCGGAGGA	90	59.03
CGGCAATAACGGAGGTGGTA	160	59.41
GAAGGTGATAGAGTTGGCAGAGAA	114	57.73
GGTTCTTCGGTGCGGCTATG	88	61.44
GGTTCTTCGGTGCGGCTATG	118	61.44
CGTAGATTCGGCGACTTCTC	121	56.27
CAGATGTTCCGGATGGAGCCT	202	58.69
CAGATGTTCCGGATGGAGCCT	235	58.69
CAGATGTTCCGGATGGAGCCT	355	58.69
GCTGACAACAGGTACATGAGTGA	70	56.48
TCACTAATTGAACAATCTGCTAATTGC	72	58.86
TCGAATCACAACCGAGGAGT	625	56.75
GCAAGAGGCTAAGAAGAAGAGAAG	398	56.29
GCAAGAGTTCAATGTCGGTTG	672	56.94
TTCGTGTATTCTCTTGCCGTT	393	56.17
GGACAGATTCTATCGTTCTCTTCAG	1095	59.87
TCTTGGCAGTGAATGGCTCT	234	57.07
TCCATTGATAAGCGGAGGTC	91	56.29
ACCGATCCTTGCGATGTGTG	540	60.49
AAGGAGTTGGTGAATGATAGATG	52	57.24
CATTGTTGGCTTATTATTGGATTG	603	56.48
CGGAGGAGTTGGATGTCGCT	371	61.12
TTCTTCCTCCTCTCCTTCTGATTCTTC	48	61.6
AAGTGTGGATTGGTCATCGG	1013	56.88
AAGTGTGGATTGGTCATCGG	949	56.88
TCACCGAATCAGACAACAATCACT	3673	59.5
CGATTCAAGGTTGTGGAGTTCA	592	58.68
GAACTGCTGTCTTCGGAAGTGT	115	57.2
TTCTGGCTATGCTCAACGCT	809	57.35
TTGTGGCTGCTGGATATGATAG	910	56.54
TCTGACTCTGCGAACTACTGGA	70	56.43
CTGTCACAATTACCAACCACGGA	1256	60.61
GTCTTCTCAACAGTATGCTTCCAA	3020	56.41
TTGTCCTGTATGGTCTTATGTTGAG	716	56.15
AATCAGCAATGAAGCATATTAGCA	793	56.9
TTCCTGGTGGTATGCTCCTG	821	57.2
CGAGTTGGAGTATTGTTGTTATTGG	1167	57.79
TTACCTTGGAGTCGCACTATTCC	337	58.33
TTACCTTGGAGTCGCACTATTCC	357	58.33
AAGGATTGCCATTGCCAGAT	2080	58.07
AACTGCTCTGGTCTACTACGGAAT	727	56.48
TTCCATCTGCGTCTACTACTTATCG	1011	57.79

GCCGACATAATTCAACAGCACACA	103	59.6
AACTCCAGCTCCAGGATCAAG	508	57.07
AACTCCAGCTCCAGGATCAAG	374	57.07
AACTCCAGCTCCAGGATCAAG	442	57.07
CTCCGCCGAGAGAACGAGTT	218	60.47
CTCCGCCGAGAGAACGAGTT	317	60.47
CTCCAGGCGTCACGGTCTTC	659	61.7
CTCCAGGCGTCACGGTCTTC	452	61.7
CTCCAGGCGTCACGGTCTTC	520	61.7
CTCCAGGCGTCACGGTCTTC	388	61.7
AATGCGTTGCTCTTCCGAAT	279	58.4
GGTGTAGGAACAAGATGTATTCAGAA	68	56.66
TGGACCTCTTGAGTTCGCT	347	58.47
TGGACCTCTTGAGTTCGCT	346	58.47
TGGACCTCTTGAGTTCGCT	345	58.47
AACTCGCGCTATCGTATCGG	226	58.95
TCTTCGTCGTTATCGGCTTGA	1295	59.43
TCTTCGTCGTTATCGGCTTGA	1295	59.43
TCTTCGTCGTTATCGGCTTGA	1308	59.43
TCTTCGTCGTTATCGGCTTGA	1295	59.43
TCTTCGTCGTTATCGGCTTGA	1308	59.43
ATTGTGAAGAAGGAAGAGACTAAGGC	647	58.62
GGAGGAGCACCAAGACCAAT	344	57.63
GGAGGAGCACCAAGACCAAT	344	57.63
CTCTCCTCCTCATCGTCTCG	74	56.14
GACAAGAAGTGGAAGGCGAAC	110	57.52
CGCCGTTGGATAAGAGTTGT	469	56.46
GGTGCTGGTGGCTATGGATC	90	58.96
GTAGTAGATACGTGGCGCCATT	527	57.02
GAGTTCAATGTTGCAGAGCATG	170	57.1
GGACGATAATAATGTGCCGAA	191	56.28
TCACACATTACCTTCTGTTGCTG	460	56.6
AAGGATCAACAGCTCCAGCA	206	57.07
AACTGGAAGACTTGGAATATCCG	261	57.37
AAGAACCGATGTTCAAGGTGAT	777	56.32
GGATATGGCATTTCGATGATCTC	457	57.06
TTATGTGATGACGACGATTGTGA	528	57.63
CTCTCTACAACCTCGCTCAGAATGACTAC	100	59.24
AAGCAGTTCCAACATTCAACGAGT	129	60.03
CACTTGATGGTGTGAATGTTGAC	543	56.57
CGGAACTGCTCGAAGTATTCG	84	58.59
ACTCCTCGTCATTGATGAAGCG	396	60.21
AATGTGGACGACGAGGCTGA	3053	60.23
AAGGCTTCATAGTGCCAATCC	90	56.94

AATGATCCTGCCTGACGATTC	3320	57.67
AATGATCCTGCCTGACGATTC	3399	57.67
AATGATCCTGCCTGACGATTC	3318	57.67
TTGCTGCTGTTGGAATGTCTG	1255	58.51
TTGCTGCTGTTGGAATGTCTG	1192	58.51
CGGAGAACCAAGAGTTGTTGC	125	58.43
TCAAGAATGATCAACACTATCCGACA	111	60.66
AGATGATGATTGTTCCGGATGAAC	205	56.65
CGGCAAGGAATACGGTAATGAC	833	59.34
CTGTTGAGAGTGGAGCGACCT	352	58.14
GGAAGATTATGGAGAAGGAGAAGAAG	495	58.13
GGAAGATTATGGAGAAGGAGAAGAAG	819	58.13
CAATGTTTCAGTGGCATCACAA	344	56.63
CAATGTTTCAGTGGCATCACAA	138	56.63
CAATGTTTCAGTGGCATCACAA	167	56.63
CAATGTTTCAGTGGCATCACAA	138	56.63
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ACAGTTCGGCACATCAATACG	649	57.24
TTATTACAAGCCAGCGACAGC	3820	56.87
ATGTGGAAGGCTACGAAGAAGG	587	58.4
ACAGTTCGGCACATCAATACG	649	57.24
ACAGTTCGGCACATCAATACG	649	57.24
ACAGTTCGGCACATCAATACG	649	57.24
TTATGAACACGCAGATATTCTTCG	2366	57.21
TTATGAACACGCAGATATTCTTCG	2366	57.21
TTATGAACACGCAGATATTCTTCG	1445	57.21
TCTGGAAGTGGAACGACATCTC	2521	57.84
GCAGTTCTCCACGCTTATTTCG	58	58.6
GCCTCAACTCTATTCTTCGGATG	689	58.04
GCTGTGCGACTACTTGAGACG	1062	57.39
GCTGTGCGACTACTTGAGACG	1091	57.39
GAAGGAGAGCCAACACAGGA	101	56.46
GAAGGAGAGCCAACACAGGA	101	56.46
GAAGGAGAGCCAACACAGGA	101	56.46
GCAACAGTCGTGCTCAGGAC	1431	58.03
GCAACAGTCGTGCTCAGGAC	1431	58.03
GCAACAGTCGTGCTCAGGAC	1431	58.03
CTGATAGCCTTGTCACACACATTGG	725	61.56
ATTCCACGACAGATTCTGGCATA	76	59.45
AAGTTCAGAGCACTGGACCTCA	545	57.65
TTGGTTAATCGACAACTCAGCA	163	57.05
TTGGTTAATCGACAACTCAGCA	154	57.05
TTGGTTAATCGACAACTCAGCA	208	57.05

GGAAGTCCACACCGTGTGACAG	409	61.37
ATGAGCCATGCAGAATCCAT	34	56.6
CGTACTCCGCATCTCTTGTCA	69	60.38
CGGACTTGGCTGATATGGCA	162	60.56
GATCCGAAGAGCCGCAGACT	2169	60.45
GAGATCACTTGCTTCCGAGACC	2229	58.93
GATGAGCATGAGAGCACACG	2146	56.48
GATCCGAAGAGCCGCAGACT	2160	60.45
CGGACTTGGCTGATATGGCA	162	60.56
GTTATTCTTATCAGTGACCTATGCCA	69	56.72
AATTGGTGATAATGCACGGAA	724	56.61
AATTGGTGATAATGCACGGAA	87	56.61
AATTGGTGATAATGCACGGAA	212	56.61
AATTGGTGATAATGCACGGAA	772	56.61
GTGACAGTTGCTGCTGTTGGAAT	80	60.17
CGTCTCCGTTCTCTCGCTTG	135	59.71
CAGAGTTGACGACCAAGCAA	267	56.06
ACGAGATTCCGAGTCTGCTG	543	56.66
GGTGTATTCGTGCGATTCCA	1034	58.03
AGGATGGAATGTTATGCTTGCG	1511	59.93
CGATGTGGAGCGTGTGACAG	442	59
CGATGTGGAGCGTGTGACAG	482	59
GACATCATCCGTAAGCATCCA	903	57.09
AATGGATGTCTGGTTGTTGTTCC	539	58.72
GCCGCTGAAGACAAGAGGAAC	614	59.96
GGCGAATATGTCCACTGCGT	253	59.55
AACTACGCATGAAGTTCGTCTGA	56	57.7
AACTACGCATGAAGTTCGTCTGA	56	57.7
CGGAACGATTGTAGAAGGAATAGCA	636	61.46
CCATCGTGGTTCAATGAAGGTG	614	61.08
CCATCGTGGTTCAATGAAGGTG	699	61.08
GACACGAGCTTCGGACATTCAC	570	60.63
CCAATGAGGCGCATAAGAGA	94	57.53
CAATCCGTCATCAATATAGATTCTTG	113	57
CTCGTCGTCTTGCTACTCCTC	43	56.13
GTGCTGTCGCTATTATTCTCATCA	1277	57.26
GTGCTGTCGCTATTATTCTCATCA	1297	57.26
GTGCTGTCGCTATTATTCTCATCA	1297	57.26
AATGATCAATTCCTCGTTGCTT	41	56.51
ATTCACAATGGCATCAATCAAG	114	56.2
GGTGATGTGTGAAGCAGGCT	4306	57.32
GTAATGAGCAGATCCGCAGGT	352	57.9
GTAATGAGCAGATCCGCAGGT	352	57.9
TCAACAGAGAAGATGGTTGAGGAA	3069	58.86

GTAATGAGCAGATCCGCAGGT	352	57.9
GTAATGAGCAGATCCGCAGGT	352	57.9
AATCGTTCCATCGTTCAAGG	133	56.21
AATCGTTCCATCGTTCAAGG	55	56.21
AATCGTTCCATCGTTCAAGG	55	56.21
CTTCGGTCGTCGGTGATGAG	229	60.22
TTCAGACTCACCACAACTCAACA	169	56.96
CAGTCTCTACGCTGCACACTGT	227	56.91
TTCTTCGCTATTGTGAGCAACAC	202	58.19
ATACCATCGGACGGAAGGAG	532	57.54
GTCTCATAACACCGCACTGGA	752	57.27
CCGCCTATCTGATTACAGCATT	340	57.07
CACCATTACTGTGAATATCAAGAGAGAC	862	57.56
CACCATTACTGTGAATATCAAGAGAGAC	862	57.56
CGAAGAAGAAGAGTTGGATGGT	612	56.21
CGAAGAAGAAGAGTTGGATGGT	480	56.21
CGAAGAAGAAGAGTTGGATGGT	351	56.21
CGGATACTGTTGGAAGGAAGAG	647	56.62
CGGATACTGTTGGAAGGAAGAG	642	56.62
ACCTGCCTCCATTCTGCTCT	183	57.54
CGACGACACGAGAGATCCATC	278	59.26
CGACGACACGAGAGATCCATC	29	59.26
TTATGGAGGAGACGAGGTTAGC	44	56.29
TTATGGAGGAGACGAGGTTAGC	115	56.29
GCGGTCCAGTCAGTGAGGTC	123	59.27
AAGAGAAGAAGGCAGTTAGTGTGG	315	57.03
AACCAAGCCGCTAACCTCGT	40	59.73
CGAGAGGAAGGATCACAAGTG	82	56.04
AAGGCTTCAGACGAAGGTTGT	353	56.7
AAGGCTTCAGACGAAGGTTGT	420	56.7
TGATGGTCGGAATGATGGTG	327	58.73
TGATGGTCGGAATGATGGTG	114	58.73
ATTCTCATACACATCCAATCCATT	271	56.73
TGAGCAAGTGAGAAGAGAAGAGCA	590	59.54
TGAGCAAGTGAGAAGAGAAGAGCA	602	59.54
TTCTCGCCTCGGCATCTCTC	91	61.48
ATTAAGACGGATAAGAGAAGGTAATTC	97	56.41
CGAGTGAGAGAGTGTTGAAGACG	181	57.87
ATGTTGATGATGATGGAGAAGCG	49	59.93
TTGGTCACTTCGGATAATGGTC	2399	57.53
TTGGTCACTTCGGATAATGGTC	2399	57.53
TTGGTCACTTCGGATAATGGTC	3356	57.53
TTGGTCACTTCGGATAATGGTC	3356	57.53
TTGGTCACTTCGGATAATGGTC	1873	57.53

TTGGTCACTTCGGATAATGGTC	1873	57.53
TTGGTCACTTCGGATAATGGTC	2858	57.53
TTGGTCACTTCGGATAATGGTC	2858	57.53
TTGGTCACTTCGGATAATGGTC	1060	57.53
TTGGTCACTTCGGATAATGGTC	1060	57.53
TTGGTCACTTCGGATAATGGTC	2663	57.53
TTGGTCACTTCGGATAATGGTC	2663	57.53
CTGTGAGGCTAACGGAGTACCAAC	2820	60.04
CTGTGAGGCTAACGGAGTACCAAC	2820	60.04
CTTGCAACTCATTACTCACAATCAG	25	56.87
AGGAACTGAGCCATTGAACTTG	330	57.09
GCTTCATCATCTACGGATTCCTGTG	34	61.88
CGAGGAACACTTATTATTGAGCGT	755	57.65
TGTTGGTCAAGATTCGGCAA	241	58.69
CCAGTCATTGCGAGCAGGAT	1099	59.8
CGACCGACCAACAATCATCA	32	58.93
CGACCGACCAACAATCATCA	38	58.93
GCGGAAGAATTGGAGTCAAGT	195	57.02
CCAAC TACTACAGATTCTTCTCTC	498	57.16
ATTGGAGTCAAGTGATCGTGCTG	125	60.13
GCGGAAGAATTGGAGTCAAGT	25	57.02
GCGGAAGAATTGGAGTCAAGT	291	57.02
GCGGAAGAATTGGAGTCAAGT	152	57.02
GCGGAAGAATTGGAGTCAAGT	115	57.02
CGACCGACCAACAATCATCA	38	58.93
GCGGAAGAATTGGAGTCAAGT	163	57.02
GCGGAAGAATTGGAGTCAAGT	159	57.02
CGACCGACCAACAATCATCA	32	58.93
GCGGAAGAATTGGAGTCAAGT	162	57.02
GCGGAAGAATTGGAGTCAAGT	160	57.02
CGACCGACCAACAATCATCA	32	58.93
GCGGAAGAATTGGAGTCAAGT	115	57.02
CGACCGACCAACAATCATCA	38	58.93
GCGGAAGAATTGGAGTCAAGT	163	57.02
GCGGAAGAATTGGAGTCAAGT	162	57.02
GCGGAAGAATTGGAGTCAAGT	160	57.02
GCGGAAGAATTGGAGTCAAGT	291	57.02
GCGGAAGAATTGGAGTCAAGT	152	57.02
CAGGAATGTGATGATGAAGACG	388	56.74
GGCACGCACTCTACAAGTTGTG	88	59.43
ATTCTTCTCGCCATCCTTGC	248	57.95
CAGTGAAGCCTCCTGAATTAGATAC	704	56.51
CCTGCTCATCGAGAACATTCC	610	58.33
TTCTCAAGGAAGATGCTGTGACTGT	284	60.27

TTCTCAAGGAAGATGCTGTGACTGT	190	60.27
CGAGTCACTGTTGAAGTTCCTGT	362	57.13
TCAGTCATAAGTTGACCATAAGACAAGA	86	58.43
GTAACAATCTCGCAACAACTATCG	221	56.78
GAAGACAATCAAGGAGAAGACGA	1408	56.34
GGTCCAGTTGAAGGAGTTATTGATG	137	58.95
ATGGCGAATTGTGAGAATAATCC	63	58.03
ATGGCGAATTGTGAGAATAATCC	144	58.03
GCTACATCGCCAGAGTTACAGG	226	57.66
TTGAATGAACGGCTGGTTACTC	180	57.86
CGGACTTGCTCCAATTACTGC	1244	58.46
CGGACTTGCTCCAATTACTGC	701	58.46
CCAATAATAACCGACAAGGACCA	129	58.77
AAGTACAAGATTATTGTAGTCGGTCTCG	94	58.45
GGACACTCGCAAGGTTGTTCA	177	59.72
GGACACTCGCAAGGTTGTTCA	166	59.72
AGGTGACTTCAATCGGATGTAGC	432	58.28
CTTCAATGCCTATGCCGAGT	442	56.54
CTTCAATGCCTATGCCGAGT	484	56.54
AATGTTCTGAATGTGCTGAAGGAT	116	57.84
ACAGGAATGGCATGGATGGC	293	61.59
AGTCGGAGACCACTACAATTACTGAGTT	507	59.87
GGAGATGGCACGCAAGAAGA	347	59.92
GCAGATGATGTGAAGAAGAGTGAGA	199	58.66
GCAGATGATGTGAAGAAGAGTGAGA	337	58.66
GCTGAGACTGATGGATCGAGAGA	247	59.56
ACCAAGTCGGAGATCACTACAATTACC	465	60.74
CTCTCACGCTGTGCAATGAC	273	56.55
CACACTGGACGAGTCGGCTCT	1644	61.37
TGGATTATTACATTGCGCCATTG	132	60.48
AAGATGACAACGACTCTAGAATCTGTG	670	58.17
ACCTATCACCGTCTCGCAGTA	157	56.07
ACCTATCACCGTCTCGCAGTA	157	56.07
GTCACATACTGCTTCATACCTTCGT	2412	57.51
GTCACATACTGCTTCATACCTTCGT	2346	57.51
GTCACATACTGCTTCATACCTTCGT	2390	57.51
GTCACATACTGCTTCATACCTTCGT	2394	57.51
GTCACATACTGCTTCATACCTTCGT	2372	57.51
GTCACATACTGCTTCATACCTTCGT	2364	57.51
GAGACAATCGTCAGTTCAATTGGACT	533	60.68
GAGACAATCGTCAGTTCAATTGGACT	584	60.68
CCGACTCTCCACCTGCTCCT	27	60.35
CTACCTCCACCTCCTCCTCCT	95	57.38
GCATCTACTATTATTCCAATTGTCAATG	85	57.55

GCACGAAGGCTCCATTCTCTG	128	60.84
AATGGTTCCTCTTGGAGCAGTT	762	57.89
AATGGTTCCTCTTGGAGCAGTT	801	57.89
CATGCCGAGATGAATGCCAT	459	60.4
TGTCAACGATGCTCCACTCTC	863	57.46
TGTCAACGATGCTCCACTCTC	863	57.46
TCAACGAACCAGTAGCAACAGA	62	57.17
GCAATAGATGTCCGCATAATGG	458	58.09
GCGGAGGAGGATACTCTGAACA	977	59.31
AATGACAAGCAGACTGACTCTCAA	1395	56.92
GTTGCGGATTACTGATGAGGA	756	56.37
GGTAGATGCACCAATGGAGAA	380	56.22
TCAGGCAAGCAGAAGCAGAG	37	58.07
AACCGTTCCTCAACAGTCTCAC	52	56.91
CACTCTAACAAGTGATCCGAAGCTC	80	59.45
CACTCTAACAAGTGATCCGAAGCTC	126	59.45
GCAAGTTCTACGCTGACCACA	245	57.64
GCAAGTTCTACGCTGACCACA	245	57.64
GCAAGTTCTACGCTGACCACA	261	57.64
CCGCTGCCTGTGTCTTCATC	62	60.37
ATATTCCAATTGGTGTCGTTCC	1602	56.58
ATATTCCAATTGGTGTCGTTCC	669	56.58
CTCAATGAGCTTCACGATGTACA	356	56.68
CGAGCGGAGAAGGAGAGAGA	434	58.44
ATTATGGCTTGCTTGGATGC	256	56.44
ACTTGAGACCACCGAGGACA	1675	56.71
ACTTGAGACCACCGAGGACA	1786	56.71
GGCATCAATTCCGACTTCCA	64	59.46
GGCATCAATTCCGACTTCCA	64	59.46
AGAGATGTGGAGAACGCTTGA	1268	56.19
AGTTCTACATCACACATGACTCTACTCA	203	56.48
CATCTTGCCATCGGAGGTGA	442	60.57
TTCATCGGCTTCACTCTGGA	239	57.96
AGCGACATCAACTGGACAATC	269	56.31
CGATTAGCGACTGTACCGTTC	48	56.2
ATGACGTGCTTCATACACATGCTA	261	58.34
TTAGAATGCGAACGAAGTTGAATG	364	59.29
CCAATGTATGGATCTCCGTATGG	77	59.06
ATTATTCAAGGATCACTTGTTGATGTCG	367	61.42
AACCGTGCTCATTATCAGAAGG	445	57.01
AAGTTATTGGAGAGATTCAGGATGC	718	57.95
GTTATCAGAGGTATCACAATGGCA	29	56.85
TTGATTGAGTTGCTGGCTGGA	940	60.34
TCCAGAACGAGAAGCATCAAG	1073	56.76

TCGAGCTGCCAGTAGTAGCA	235	56.06
TCCAGAACGAGAAGCATCAAG	881	56.76
TCGAGCTGCCAGTAGTAGCA	134	56.06
TCCAGAACGAGAAGCATCAAG	728	56.76
TGTCATAAGCACACTTCAAGTACCA	465	57.57
GAGAAGGAAGATGTTCTGATACTTCA	155	56.13
TCAATCGTCTTCTGGAGGCT	1069	56.11
GGATTCGGAGTTGGAGTTGG	440	58.03
GGATTCGGAGTTGGAGTTGG	937	58.03
GCTTCAACTTCTCCTGCTCCA	363	58.27
AGCCGACACCTGAGTTCCAA	570	59.28
CTGATTCTCCACCACCACCA	270	57.92
AGCCGACACCTGAGTTCCAA	639	59.28
TGCAGATGATCCGAACACAG	233	56.75
TGGATTCTGTGGTGGTGGAT	111	57.2
GAGGTGGCAAGAAGGAGGCT	517	59.41
GCTCCAATTCCAACGGTTCC	279	60.25
ATTCCTGATGCTGATGGTCCCT	1305	57.13
CCTCGGAACAAGCGTCTCAA	83	59.95
ACACAGATTCTTCCAGACCTTCG	571	58.39
CAACAATGAGAACGACGAAGG	360	56.94
TTCGACACAACCATTGCAGGAG	1137	61.89
GGTGCGATGCTGATCTGTGT	327	58.27
GGTGCGATGCTGATCTGTGT	327	58.27
TTCTTCGTCTCAGTTGCTGTCA	1363	57.35
CGATGAACTACACAATCAAGTACCACCT	975	61.52
CGATGAACTACACAATCAAGTACCACCT	1107	61.52
AGAATCCACAGACGACAACCTCC	356	56.84
TGAGAGGCTAAGGATGTGCTATG	797	57.31
GCGTTCTAGCAGTTGAGAGTTCA	89	57.58
TGAACTAGGAGCATTATTAATCAGAGTT	732	56.4
GGTTCAATACTGGCTTCATCGT	1184	56.87
TGTTGTTGCTGTATTCTCGGTAA	589	56.24
CTGGATCGCTGGACTACAGAA	393	56.63
CTACACAGTTGCCACGGATG	160	56.22
CTACACAGTTGCCACGGATG	160	56.22
GCCAACAAGAAGGAATCAAGC	1242	57.54
ACAGACCTCATCTCCTTCCGA	72	57.37
TTCCACAATGTTGCCGCATT	32	60.84
TTGGTCGGATATCAATCGGA	1142	57.42
TTGGTCGGATATCAATCGGA	1084	57.42
ACTATGGAATCTTCAAGTATGACAACTC	128	56.45
GCCGAAGTTGCTGCTGAAGA	1588	60.23
CATGTTGTTGATGCGACACC	56	56.95

TCTTGACTGCTAATCCTTCCGT	179	56.76
GTCTACAGCGGTCACACAGGA	39	57.4
GTCTACAGCGGTCACACAGGA	39	57.4
AACGGAGACGGAATTGAACAAGA	89	60.78
AATTACTCAATGATTGTCATGTTCACT	197	56.17
AATTACTCAATGATTGTCATGTTCACT	195	56.17
GCACAGTTGCTGATGTCAGAGAA	538	59.13
TTGTGAACTAATGAGCCATGAATCTG	126	60.32
AAGAGGATGGAAGCAGTTATGG	415	56.15
GCTTGTTGGCAGTGCTTCATC	568	59.46
TTGATCTTGTATTGCGACCAGA	106	56.99
AATCCTGTTGTGAATCCACCTGT	266	58.36
GGAGATGAGATGAGGAGAAGACGA	1190	59.8
GCCAGAATCTGCATCAGGAAG	198	58.48
GCCAGAATCTGCATCAGGAAG	257	58.48
GCATCTACATCTTCTCAGCCGTCT	4690	59.88
AGTCTACTTGCTCATTGTATTGATGCT	3616	57.82
ATTCCTACGCCTCCATCTCAA	499	57.37
AGTCTACTTGCTCATTGTATTGATGCT	3616	57.82
TTGTTGAGCACCGATTCTACG	352	57.51
TTGTTGAGCACCGATTCTACG	618	57.51
TTGTTGAGCACCGATTCTACG	535	57.51
TTCTTGAGGATGGAGTGGTG	212	58.57
ATCCATCCACATCACAACAACA	134	57.23
GAGGACGAATTGGCAGATCA	565	57.26
GTTCTTCTTGACTCCGCCAT	514	59.22
TTACTCTTCCTATTCCTTGGTCCTC	472	57.21
TGTTCAATGGCGTCTTACTCAG	658	56.67
TTCCAGAACAGACACATGCACTAC	505	57.92
TTGTTCTTATCGAGACTCCACTTG	850	56.41
CAACTGTCTGGCAATATGAATGC	510	58.26
CATTGGAGATAGACTGCGACGA	191	58.94
CCTATGCCATCTACGGAATTG	926	57.41
AAGCTACACAAGTTGAATATGTGCA	704	56.85
AAGCCGACTATCCACCTATGAC	711	56.03
TTAACGGTTGATGCAGTTGTTACC	669	58.99
TTCATACGAACATTAGATTGATAACAGG	188	57.85
AATAATGGATGGACTAATATTGGATCA	183	57.12
TTCCATGACACCATACGAAGAG	1103	56.3
TTCCATGACACCATACGAAGAG	1103	56.3
TTCCATGACACCATACGAAGAG	1103	56.3
AGAAGAGCGGTGAGAGCAAG	491	56.08
CAAGATGACAATGGTAAGAGCACA	235	57.93
CAACATCGCTGACTGGACTG	289	56.39

CAACATCGCTGACTGGACTG	300	56.39
GTGTGTGCGTGAGTGTGTGAGAC	185	60.29
GTGTGTGCGTGAGTGTGTGAGAC	170	60.29
GTGTGTGCGTGAGTGTGTGAGAC	185	60.29
GCGTGAGAGTGTGTGTGCGA	70	60.66
TTACAGAAGAAGCAGCAATACGAC	87	56.68
GCGTGAGAGTGTGTGTGCGA	70	60.66
GACGAAGAAGGCTGCGAGAA	191	59.29
AAGTGGCATCTCTCGTGAGG	766	56.5
CGATGGTCAATGCTGTGAAG	1022	56.28
CGAAGCTCCTGGATTGGATG	258	59.21
CGAAGCTCCTGGATTGGATG	258	59.21
TTCCAGCAGTTCTACCAACCATC	78	59.12
TTACGACAGTTGCCGATTCTATG	106	57.96
CGTGGCTACCAGAGGTCTTC	187	56.05
CGATGTTATTGTAAGCAACGGTAA	83	57.11
GTGCCTGTGGAAGACGACTT	218	56.4
TGCAACATGTGGAGAATGTGATAC	234	58.49
AATGGTGATGGTAATGTGTGGA	285	56.27
GTGAGCAGAGGATGTGGAGAA	358	56.48
TTCAATGCTTCTCCAATCAATG	678	56.48
TTCAATGCTTCTCCAATCAATG	625	56.48
CAATGTCACTTCGGTCTCTCAA	741	56.53
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GAAGATTCGTGCGGCTCATC	1261	59.37
GAAGATTCGTGCGGCTCATC	1249	59.37
GCATGTTCTCACTGTCACTCTCA	774	56.64
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GCATGTTCTCACTGTCACTCTCA	159	56.64
GCATGTTCTCACTGTCACTCTCA	284	56.64
ATATAGAGCATCTACTTCGAGGAGGA	83	57.08
GGCAATAATACGAATGAACGGT	1597	56.75
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TTACTGGTTCTGGAGAGCTTCTG	1016	56.58
GGTTACGAAGGAGAAGGTGGTG	5222	58.62
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GGTTACGAAGGAGAAGGTGGTG	5222	58.62
GGTTACGAAGGAGAAGGTGGTG	5222	58.62

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GGTTACGAAGGAGAAGGTGGTG	5222	58.62
ACCTCTCACTTCATCACCAGCA	6118	58.4
CCACTCCACAGCCACCACCT	6738	61.91
GGTTACGAAGGAGAAGGTGGTG	5228	58.62
GTCTGCTATTGTCTGCGTCACTC	782	57.77
CCACCACAGGAATCAAGAACTC	197	57.24
ATGAAGAGAGGATGGTGGACAA	2731	57.18
CAGAGTCCGAGCCTGTTCAG	417	57.2
ATGCGAATGGTGTATGCGGTT	64	61.06
GCTCGGAATTGATATGCGTT	64	56.44
CGGAGAAGAAGGAGACCAATG	299	57.46
CGGAGAAGAAGGAGACCAATG	343	57.46
GTGACTTGGTAGCATCGGAGGT	1082	59.11
GTGACTTGGTAGCATCGGAGGT	1081	59.11
GTGACTTGGTAGCATCGGAGGT	1109	59.11
TTCATCATCGCAGCCATTCTC	155	59.75
CACACATCTCGGCTGCTCAT	345	58.42
AGATAACGATGAGAATCATGTGTGTG	79	58.15
TTGAATGGATGTGATGGAAGC	1492	57.06
ATCAGCACTCACCATTCAACTCA	81	58.32
GAAGGATACAAGCACTCGGATG	774	57.44
CGTCGGAAGTTGGTATAGTCCT	892	56.1
AACAAGATGCGTCAAGAGGAGA	170	57.67
TCGATTCGTTGTTTCAGTAATGATC	38	56.96
GTTAAGCAAGTTGTGCAAGCG	367	57.41
TTCAGTGACACTGTGTACATGTAGGAA	49	58.71
ATCGCAATAGATACACTCTCGCA	334	57.69
ATCGCAATAGATACACTCTCGCA	344	57.69
GGACAAGTTCTATCTTCATTACCTCA	331	56
GGAATCGGAACTCTTATGCCA	138	57.74
TTCAATTCAACGTGTTTCGCTT	43	57.04
CGTCTGCTGATAATCCGATGTTT	1914	59.58
CGTCTGCTGATAATCCGATGTTT	1940	59.58
ATCAGGTGGTCATTCTACAATAACTG	458	56.55
GTGGAGAAGACGATGATGTTACGAA	143	60.33
CAACAGAATCCAGCCACTGAAGT	544	59.27
GCTCTCATCGCTGTTGTTGTAG	54	56.43
ATCAAGCGAATCACACGAAGG	279	58.79
TTCAGTTCGGTACAGGTGGCAT	82	60.36
TTCAGTTCGGTACAGGTGGCAT	82	60.36
GAAGTGATGTGTTGTAGATCCTATGACC	1029	59.27
GGTCGTGTTGTTTCGGCAAGA	219	60.64
GCCTCCGCATTACTATTCCTT	51	56.21

GACGTGCGACTGAAGCAGCT	135	60.31
AATGCCAGTCAACAGCGTCCT	90	60.64
GCATCAATGTATCAACCTACACGT	175	60.01
CGGTACTCGTATAATGAGGAAGAATG	599	58.29
GTGTGGAACGCAATAGATAGCA	35	56.59
AACCAGTCTCACGGCTCAAG	2531	56.57
GGAATCGTCAAGAATCCAGGA	160	57.64
GGAATCGTCAAGAATCCAGGA	180	57.64
AAGACGATGACACCGAAGGA	1983	56.75
AAGACGATGACACCGAAGGA	1709	56.75
AAGACGATGACACCGAAGGA	1621	56.75
AAGACGATGACACCGAAGGA	1748	56.75
GAGAAGTTGTGCAGACTGGAGTTGA	457	60.78
TGTATGCTCCTTCAGTTGCTCTT	475	56.97
TGTATGCTCCTTCAGTTGCTCTT	490	56.97
TGTATGCTCCTTCAGTTGCTCTT	100	56.97
TGTATGCTCCTTCAGTTGCTCTT	490	56.97
AAGAGCAACGAGAGGCAGTG	375	56.88
ATTCTGGTGGTGATGTGGTGATTC	52	60.81
GTAGGTGGAAGAGACGGAGAGAT	69	56.67
GCTTATTATTCATACCTGAAGATGTGG	1656	57.5
ATGGCTCACGAGTATATGCTGAA	557	57.55
TGGAAGTATTGATGATGGATTGG	1442	57.42
TAACAACCTACCGTGTCACAATGAACTC	935	60.5
GGATGGATCGCTGATACCTACG	658	59.42
GGATGGATCGCTGATACCTACG	658	59.42
AACAGTGGAATCAACTTATTGGAAT	131	56.09
CATGCAAGAACTATACGAGAGCA	985	56.09
TCCAACACGAAGCAAGCAAGA	177	60.5
TTCCATTGATAAGTACAATTATTCCTTG	785	57.09
CCTCCTTCTCATCTGCTCCTT	265	56.31
GTTGAAGGAGAGGTCGGAGTT	873	56.06
GAATTCTCTACACTGATTCATAATGCA	84	56.83
TGAAGGATCCATGTTGGAAGAG	49	57.71
TGCTAATCCAACAACAAGTGCT	2234	56.25
TGCTAATCCAACAACAAGTGCT	2263	56.25
TGCTAATCCAACAACAAGTGCT	2232	56.25
TGCTAATCCAACAACAAGTGCT	2165	56.25
CAAGAGGTGGAAGTGGACGA	306	57.29
TTGACACTGAGCCATCTAATCCT	62	56.63
GCGGCTACTACTGCTGTCCA	81	57.74
GAACTCTTCTCGTAGACTGCGTGAC	31	59.61
GTTGATACTGGATACGGAGATGGTG	314	59.62
GCATACACAATGAACCGTCCA	189	57.95

TCAAGAGCCGACCGTCACAC	187	60.82
CGTGTTCCAGCACCAGGAGA	193	60.8
CGATGAGAAGGACGACTGGA	162	57.39
TTCGCCTTACGTCTTCAACTG	68	56.81
TGTCAAGCATCAGGAGGCAGT	1049	59.44
TGTCAAGCATCAGGAGGCAGT	1043	59.44
TGTCAAGCATCAGGAGGCAGT	984	59.44
AATCCTGCTGAATCCGATGG	1138	58.54
AAGACAGCACTTGGATAGATATGATTCG	841	60.9
CGGCGAAGGAGATTGTAGAG	202	56.27
CGAGAAGCTAAGCGTGGTCA	610	57.87
GATGCGTTCATTGCTAACATTAC	2247	59.52
GATGCGTTCATTGCTAACATTAC	2247	59.52
GCTGAACTGAATCGCACACTT	1881	56.69
GAGGTTGATCCGCCGTGTGT	2965	61.83
TTGTGGAGAATTCTGAAGATTAAGG	103	56.83
GGTCCACTCATCTTGATCTACTCA	140	57.47
CCACCAGTAGTCAACAGTACCATT	71	57.71
TCGTCCTCTCAATACGCTGAA	597	57.18
GCAATCAACTTCAACGGCTT	290	56.57
AACGCACGAGCAACTCACAAG	154	60.06
AGTATATTGACTACAACACAGCATTCTG	1218	56.17
GTCTTCCAACCTATGGTTCTGTTCA	34	57.47
AATTGTTGCCAGCAATGGAA	122	57.68
AATTGTTGCCAGCAATGGAA	364	57.68
ATTGTCCGACTCTACAGCCGAT	112	58.74
GAGGAGGCTCGAATCATAATATCTTC	1192	58.75
ATGAAGCGTGATTGTATGCGA	91	57.87
ATTGACGTTCTCGTTGAATGCG	439	60.96
CGACGACCACTTCCATATCC	113	56.52
GCATTCCTCCGATGAGCAAC	154	59.22
CTAAGAACCGCCGAGAATAAGG	372	58.11
CTAAGAACCGCCGAGAATAAGG	372	58.11
GTGAGCTGAGTTATATCTGGATGGC	488	59.18
TGTCGTCAAGTACCATCAGCA	647	56.37
TGTCGTCAAGTACCATCAGCA	647	56.37
TGTCGTCAAGTACCATCAGCA	539	56.37
TGTCGTCAAGTACCATCAGCA	539	56.37
AAGACTCGGTGGAAGTGGTG	733	56.24
AGAAGAGGCAATCTTAATATTCAGAGA	281	56.46
AAGTTGCTAATATCGGTCATCACA	148	56.59
GTGCTACTATCTACTGTCTTCACATTGG	214	57.75
GAATGGAATGAAGAATGTAATTGTGC	172	58.86
GGAGGAGGAGGAGGTGGAGA	755	59.18

AACAAGACATTCTTATTGGACTTCTTC	1342	56.54
TGTCGTTGTCTTCGTGGAGTC	144	57.37
TGTCGTTGTCTTCGTGGAGTC	135	57.37
TCTATATTATTGACTGTCAGAGGTGGAT	145	56.74
ATGCGTTACAATCGGCTCCA	765	60.05
ATGCGTTACAATCGGCTCCA	395	60.05
CGAGTAATGTTATGACGACGCA	435	57.49
ATGCGTTACAATCGGCTCCA	1062	60.05
GTCTCAGGAAGAGCCTGTGGAT	324	58.42
CCGATGGTACAACGTCAATGG	495	58.82
TGCAACATGTGGTTCGTGTT	71	57.02
AATGACCTGCTGTCCTTCCG	46	58.73
TTCTTCTTCTAGCTTCACCAGGTC	66	57.08
AAGTTGAGTTCTCTTCGTTGGC	46	56.41
TTAGGCAGTGGCAGGAGAGC	137	59.17
GAATGTGGAACGCTTGTTAGGA	1257	57.86
GAATGTGGAACGCTTGTTAGGA	567	57.86
GAATGTGGAACGCTTGTTAGGA	1500	57.86
GAATGTGGAACGCTTGTTAGGA	1551	57.86
TTATCCGTTCCATTAACATATAGCAT	653	56.23
GAATTCATCAGTGAAGCTGATAGATC	89	56.43
AGACCGAATGCTTACTACCAACG	118	58.39
CCTATTACAAGATATGGTCTGTGTGGAT	64	58.76
ATGCGGTCACTCGTCACTTG	159	58.32
CTCTGGTGCTGCTTCTCCTC	27	56.37
ACGATTCCAAGTTCCAAGTGTC	646	56.8
ACGATTCCAAGTTCCAAGTGTC	646	56.8
CATACCGTTCCAAGCTCACC	160	56.74
GAGATCAAGGAGAGAATTGCCA	92	57.09
TTATGGACTTGTGGAGGAATGAGA	948	58.62
ATTACTATGACCAACCGAACCTGT	697	56.8
CTTGTGTGATGTTCTCGGTGAT	277	56.08
TTGGAACGACAGCTATTGGC	235	57.44
GCCAGGAGACGAGGTGGTACT	322	59.21
TTGTTGGTCCTGCTGTTCTCA	1237	57.93
TAAGTTCAACTCTATCATATTGATGGC	65	57.25
CGATCATGCCTCCTTCCAGT	1048	58.69
CGATCATGCCTCCTTCCAGT	1070	58.69
CTTGGTGAGAGTTAGAGGCGAT	227	56.38
AGCCTGTCCACAAGGATTGCG	688	58.73
GGTGATGCCGAATGATGCTC	205	60.01
AATCTCACCACAACCTCTCACCCT	596	57.81
AATCTCACCACAACCTCTCACCCT	108	57.81
TCAAGGAGAACGAGGAGCATC	2854	58.07

TCAAGGAGAACGAGGAGCATC	2842	58.07
TCAAGGAGAACGAGGAGCATC	2842	58.07
TCAAGGAGAACGAGGAGCATC	1474	58.07
TCAAGGAGAACGAGGAGCATC	1474	58.07
CGATGAAGAACGACTGAATAGTAAGAC	146	57.79
TCAAGGAGAACGAGGAGCATC	2806	58.07
TCAAGGAGAACGAGGAGCATC	2863	58.07
GAGTGATGCGGAACAAGTGC	418	57.89
CGCTCCTCTACATCCTCATC	383	56.74
AAGGAGGAACGTTCTGAATAATCG	407	59.47
TTCGGTGGAGGCACTGGATC	560	61.91
GCATCTGCGGAATCAGGCAT	162	61.98
ATTGAACGCTTGATGAGAGAGAA	3480	56.88
ATTGAACGCTTGATGAGAGAGAA	3388	56.88
GCATCGCTGTGACACTGGAA	821	59.41
ATTGAACGCTTGATGAGAGAGAA	3269	56.88
ATTGAACGCTTGATGAGAGAGAA	3019	56.88
ATTGAACGCTTGATGAGAGAGAA	2800	56.88
ATTGAACGCTTGATGAGAGAGAA	2225	56.88
ATTGAACGCTTGATGAGAGAGAA	3240	56.88
ATTGAACGCTTGATGAGAGAGAA	2349	56.88
ATTGAACGCTTGATGAGAGAGAA	2228	56.88
ATTGAACGCTTGATGAGAGAGAA	3474	56.88
ATTGAACGCTTGATGAGAGAGAA	2702	56.88
GACTGGATTGCCATCTATCAGAA	1050	56.94
TTGGAAGTACCGACTGGATTG	1037	56.29
ATTGGTCCATGAAGTGGCTGT	947	57.97
TTGGAAGTACCGACTGGATTG	914	56.29
TTGTGCTTCCTTCTCCATCG	117	57.48
GACTGGATTGCCATCTATCAGAA	1005	56.94
GACTGGATTGCCATCTATCAGAA	914	56.94
GACTGGATTGCCATCTATCAGAA	1018	56.94
TTGGAAGTACCGACTGGATTG	901	56.29
TTGGAAGTACCGACTGGATTG	1005	56.29
TTGGAAGTACCGACTGGATTG	992	56.29
GACTGGATTGCCATCTATCAGAA	1040	56.94
GACTGGATTGCCATCTATCAGAA	927	56.94
AAGCCACCGATGACTTAGAGAA	91	56.76
AAGCCACCGATGACTTAGAGAA	91	56.76
TGTGTGCCAGTCCAGTGTCAA	279	59.75
AAGTTGGAGATTCTGGAGGAAGAGG	198	61.92
GGCGACTAGTGCCAATAGTTACC	95	57.94
GGTTGCCAGGCTAGTCTAGAAGAC	24	58.65
ACACAGAAGCCAAGGAGAATCAG	3948	58.52

ACACAGAAGCCAAGGAGAATCAG	1630	58.52
TGTGGAGGCGAGCAAGATGA	646	61.44
CAGCCATGCAGCATCATCAAC	633	61.16
TTGAGCCAAGATGATCTACCACA	341	58.32
GAACGGTTCCACTGCTTAGC	241	56.18
GCGATGAGAGATATCTAGAAGTGTT	453	57.37
CCTACCGGTCTGGTTATTATTGG	422	57.57
GACAATCGCCTCGTCTGGAT	255	58.69
GACCTACTTGATCAACTGGACGGA	176	60.33
GTCTTGCTGGTGGCGTTGGT	1065	61.98
CGGTGACTATGATTGTGGATAATAAGAC	638	59.17
TCGGAGGAATTACAATTGGAGA	749	57.3
TTAGTATTATCCGCACCAGTTGC	257	57.09
GCCATCGACAGCAATATCAGA	425	57.39
TGCGGCAGGTAGAGATGAGA	70	58.14
AATCGTCAGCATGTTGGATTG	88	57.15
CGCCTGTTGATCTACGGAAT	94	56.39
GGAGTTGTGGTCGTTGCTGA	153	58.29
GGAGTTGTGGTCGTTGCTGA	166	58.29
CCATCAGCGTTACAACATCATTACTG	1175	60.58
ATCTGTTTCGTCGTTGGCATTG	650	59.57
TGTAGTAACACGAACGAAGCAGAT	128	56.88
TGTAGTAACACGAACGAAGCAGAT	128	56.88
CCAGTGACCATGAATGAGAAGTTC	325	58.62
CTCCAGTTGAGCGTCCACGT	101	59.87
CAACGAAGAGTATGCGAGAAGA	492	56.07
GATTATTAATCGCCAGAAGACACA	56	56.26
ACCGATTCAATTCGAGAGTTCA	2123	57.41
ACCGATTCAATTCGAGAGTTCA	2068	57.41
CCGAACTCCAGAATCATGGTTCA	466	61.99
CCGAACTCCAGAATCATGGTTCA	203	61.99
TCGTCTGAAGAGAAGACTCAACG	64	57.48
CCGAACTCCAGAATCATGGTTCA	466	61.99
ATGGTTCGTGCTTCAGATGAG	348	56.47
TTCTTCTCGGAGGTGTTGGA	84	56.89
TTCTTCTCGGAGGTGTTGGA	86	56.89
TTCAATGAGAAGCGTCGGTT	802	57.02
CATCCGAATGTCAAGTGATACCA	69	58.43
TGGTATACTGAGAATGATATGATCTTCG	292	57.87
TGCAATCTGCTCATCAGTGC	397	57.08
CAAGTCCTGGACCATTGAGC	298	56.75
CAAGTCCTGGACCATTGAGC	400	56.75
TGTTCCGGAGTACCAATCGCA	1319	58.72
AGGCTCTCGTTATTCCATCA	883	57.65

ATCTCAATCTCAACACACTACTTCACG	1580	58.84
ATCTCAATCTCAACACACTACTTCACG	1587	58.84
ATGCGTTAGGAGGTGTTAGTGG	1228	56.96
CGAGGAAGACGGATGAGAGG	143	58.41
ACAGTCAACATGATAATTCCATGC	778	56.71
TCTTGGCTTGGCTTGAGGCT	1044	60.96
GAAGCCTGTAACGCCACAATC	1042	58.32
GACAGCGAATGCCTTATCCTT	623	57.08
CGCAAGCAGAAGAAGGACGA	547	60.22
CGCAAGCAGAAGAAGGACGA	444	60.22
ACCGATGGAAGTGGAAGAGG	1052	57.64
ACCGATGGAAGTGGAAGAGG	859	57.64
TTGGAGCCACACGTTAATGATG	177	59.46
TAGCAGCAGACGGATCAACTTCAG	301	61.66
AATGCTGTGATAATGTGTGTCCGA	3670	60.24
TAGAAGCAGTGGACCGAGAAGT	127	56.86

Reverse Start Position	Reverse Primer Sequence	Reverse End Position
677	GTTGAGATACAGTTCATTCCACGGA	653
707	GGATGCGACTGGAAGTGATC	688
404	TCTCTATGTGGTGTGGACGCT	384
400	TCTCTATGTGGTGTGGACGCT	380
839	TCCTCGGTAGTTGCAGGCTT	820
374	TCCTCGGTAGTTGCAGGCTT	355
245	TGGAGTGAAGTATTGACGATAGC	223
463	AATCAACACCAATGGTAGCGTT	442
327	TGCTTGAATTGTTGACTGAACG	306
993	TTGAGATGATGCGAAGTGGA	974
121	AGGAATGCCAGGAGACAATG	102
565	TAATTCCTCGCGTCTTGTCAT	545
463	TTGTTGGCTGCTTGATTGAG	444
508	TTGTTGGCTGCTTGATTGAG	489
508	TTGTTGGCTGCTTGATTGAG	489
384	AGCTGAGCCGTCTTCACCAG	365
1032	TGGTATCTGGTAGAAGATGGAACA	1009
1033	CCGCATCTTCCACTTCATACTTC	1011
627	CCAACCAGCATCAGGATATACTG	605
627	CCAACCAGCATCAGGATATACTG	605
829	CTGAGAGGTCGTTGTGTTGAAG	808
1032	CTGAGAGGTCGTTGTGTTGAAG	1011
934	CTGAGAGGTCGTTGTGTTGAAG	913
976	CTGAGAGGTCGTTGTGTTGAAG	955
712	CTGAGAGGTCGTTGTGTTGAAG	691
245	GGACGAATGATACGCAGGAA	226
235	CTGTTCACGGTCGGTCCAC	216
416	CATATGTATAAGTTGAGCAGCAGCTA	391
706	CGGTTGATTCGATGAGTTCTTG	685
860	AGCGCAGCAATGAATGGAAT	841
709	TCTCCGTTGACTCTATGACTTGAC	686
1041	CATAGGTGGTGAAGTGAAGTCTT	1019
572	TGGTACTAGACGAGCAGCAAGA	551
313	TTGAATTCGCTGGATCTGGTT	293
409	CTGTGTAGTTCCTGTATAAGGTAGCAA	383
165	GGCATGGAAGATCCGTAGTAGT	144
863	AAGGATGCAGCAATGAATGG	844
722	CAGCGGCAGATACATTCTCTTAC	700
742	AGTCACGACAAGTGGCAGGA	723
592	TGCGTGTATTCCGAGATACCTG	571
911	AATAGCAAGTTGAGCACGGAA	891
697	CAGTGATGACAAGTGCCAAGC	677
442	TTCTTCAAGTCACAAGGTATGGC	420

267	CACCATCTCACAACGCCTTC	248
165	TCCTGAGACAACGACGAGATG	145
603	TTGCTCACAAGACGGACGAC	584
430	TTGCTCACAAGACGGACGAC	411
603	TTGCTCACAAGACGGACGAC	584
2239	TCATAGAGGTGGCGAGATTCC	2219
237	CTGTATTGTGTGATAGTGTGTTGAGC	212
237	CTGTATTGTGTGATAGTGTGTTGAGC	212
157	GAGTGAAGTGACAAGTGGACAATG	134
963	GAGGCAAGAATACGGCGAAT	944
1483	TTGATGCTCCAAGTTGTCGTT	1463
1626	TTGATGCTCCAAGTTGTCGTT	1606
762	GTGACGAGCGATAGAGTTAGACG	740
762	GTGACGAGCGATAGAGTTAGACG	740
186	CTGAGCAGAATCAATAATCCATTG	163
1094	CAGAATCTTCAGAGTCGGAGGAA	1072
1094	CAGAATCTTCAGAGTCGGAGGAA	1072
169	CTCCGACAACGATGACATCA	150
1456	GATGAGGTCGTCTGCTGAGG	1437
178	AATCTCCATATTATGCCATTCCA	156
782	GGAACCTCTTGAAGCACATCTC	761
199	CGGAACATCTTCACACCATCA	179
846	TGTCGTAGAACTTCGTGAACCAA	824
333	TCCACGACAACATCTTCAACC	313
391	TTATGAGCAGGAGAGCCAAGA	371
1050	ACATTCACACACATAGCAACCAA	1028
1313	ACATTCACACACATAGCAACCAA	1291
1040	ACATTCACACACATAGCAACCAA	1018
1043	ACATTCACACACATAGCAACCAA	1021
1050	ACATTCACACACATAGCAACCAA	1028
1050	ACATTCACACACATAGCAACCAA	1028
973	ACATTCACACACATAGCAACCAA	951
329	TGTCTCTCGAATTGCTTGCC	310
651	TGTCTCTCGAATTGCTTGCC	632
127	AAGTAACTTCCTTAATCGCATTG	104
216	TGGAGATACCATTACTTGAACATCG	192
299	TGAGCATGAGAATATAATGAAGCAA	275
1093	GCATTGTTGTTGTCACTGGATT	1072
1832	TTGGCATGGTCTATCAATCTCA	1811
1844	TTGGCATGGTCTATCAATCTCA	1823
2190	GGATGGAACAATGGCAGCGT	2171
414	GGATGGAACAATGGCAGCGT	395
147	GGATGGAACAATGGCAGCGT	128
197	GGAGGATGTGAAGTGATTGGTAG	175

298	GAACACTTCCTTGTCTTCCGTT	277
298	GAACACTTCCTTGTCTTCCGTT	277
2608	GCTTCATCCGACAGATCCAG	2589
2030	GCTTCATCCGACAGATCCAG	2011
2608	GCTTCATCCGACAGATCCAG	2589
2596	GCTTCATCCGACAGATCCAG	2577
1375	TGTCACAGATGTTGTAGTAGATGGTTC	1349
1382	TGTCACAGATGTTGTAGTAGATGGTTC	1356
422	GAGTCTCGACTGGATTGTGACG	401
280	GTGTTGTGTCTGTCTGTGTGTCC	258
140	TGGCTGGAACGGAATGTGAG	121
128	GACAATCGACGCGACTCTGC	109
247	ATGTCAGAAGTAGAGAGCACGAGA	224
426	TGATGGAGGTGGTTGTTGAGG	406
103	ATCCTTCGAACAGCCACCTT	84
253	TCTGTGATGTAAGGAGGTAGTTGC	230
234	TGACGAGCAACACTAACAGGAA	213
130	TGACGAGCAACACTAACAGGAA	109
231	TTGACATCGCCTCAGCCTTG	212
412	TCATACGCTACGGCTATCAGAA	391
152	CATCCGACCTTCGCAGGAAT	133
859	GGAAGGTCATACGATGTGTAAGAACAG	833
963	GTATGGACAATGACGCAGAGC	943
963	GTATGGACAATGACGCAGAGC	943
1015	GTATGGACAATGACGCAGAGC	995
116	ATCGTCGTCGTATGTGGCAA	97
754	GAATCCGCCTCCGAAGAACA	735
782	GAATCCGCCTCCGAAGAACA	763
204	TCATTGCTTCGTCACGCATC	185
647	CGAGAAGTAACAACATGATCAGCAAC	622
1115	TTCATAATCTCTCCTCCACCAAG	1093
176	TTCATTGAGTGTACGAATCGTAGT	152
130	GACGCTCCACCGCAATAGCT	111
442	CATTGACGGTGGTGGTGGAC	423
442	CATTGACGGTGGTGGTGGAC	423
141	TTCCTCACGATTGACTTCGAGTA	119
402	CATATACTTGTGGACCAACTGTGTG	378
141	TCACTTGCTTCATTGATATTGTCA	118
441	GAGCGAGGTAGTAGAGACGATTG	419
2193	CGATCAGTCTGCATAACGAGAG	2172
191	CCATTCAACCGATTGTCCAG	172
550	CTTCCTTCCTGCCATCCATC	531
149	CACAACACAGAATCATCAGTGAGA	126
172	GTGGCATCATACGATTCATTCC	151

312	GTGGCATCATACGATTCATTCC	291
312	GTGGCATCATACGATTCATTCC	291
172	GTGGCATCATACGATTCATTCC	151
312	GTGGCATCATACGATTCATTCC	291
277	GTGGCATCATACGATTCATTCC	256
375	TGGTGTAAGTGGTGAAGATTGACT	352
204	CCAGGACTCAGCAGAGTGTTG	184
1106	ATCACACATTCCAGCGGCAA	1087
803	TCTGATGATTCCTCCGACGA	784
440	GCTAGAGTGTTGTAGGCGGATT	419
546	GCTAGAGTGTTGTAGGCGGATT	525
530	GTTGAGTGGAAGGCGAGCAG	511
530	GTTGAGTGGAAGGCGAGCAG	511
415	ACCGAATGGAAGGAGAGGAA	396
452	GCCAGTTGAAGAACTCCATCG	432
336	TCATTGAGAATATCAGCATGAGAAG	312
297	CCGCATGATACGATTCCATAG	277
297	CCGCATGATACGATTCCATAG	277
1770	CGGAGAAGATGCGGTGGAAT	1751
207	CAGCGTCTTGAGCACACAT	188
173	AATGTGTCAGATTGAGAGTATCCGTT	148
181	CCACAACCTCATTATCTCATTGG	159
1422	AGACTACTTCGACGAGTGCTGTT	1400
1467	AGACTACTTCGACGAGTGCTGTT	1445
132	CGGTGTGACTTCTGGTTGGA	113
126	CCACATTCTTCATCATCTCGCT	105
121	ATTCTGAGTATTCGGATTGGTG	99
1464	CGATTCTGTAGTTGCTCCATTGAC	1441
1256	CGATTCTGTAGTTGCTCCATTGAC	1233
279	AATGACAACTATGGTAAGAGCTGGTA	254
342	AATGACAACTATGGTAAGAGCTGGTA	317
278	CCGAATGGCTCAATGGAATG	259
302	CCGAATGGCTCAATGGAATG	283
601	AAGATTACGGTAGGCACAGCA	581
295	GGCTCCAGAAGTGAAGATGATG	274
286	CCGCCACGAAGATTCTCCAA	267
210	CTGTGCTGATATCCACCACCAC	189
547	TCCGATCTCCGAGTAGGTAGC	527
118	TGTTGAATGAGTCTTCGTCAGTGT	95
794	ACATGACGAATCCACGCATT	775
116	TTCAGTTCTTCCGTAACCTTCG	95
896	TGAGTTGTCATTGTCAGAAGTGTAGTG	870
963	TCCGATCCATACATCAACAGC	943
338	AACACGACGAACGGTGGAAC	319

471	CATTCGTGTATCCTCATCTTCTTCT	447
496	GGTCAGCTATTCGTGTAAGATTCTCC	471
616	GGTCAGCTATTCGTGTAAGATTCTCC	591
116	CCAGTGGTCTTCCGATCTCG	97
1160	ATCACAATTCTTGGACACAGTACACTT	1134
489	CATCTCCATTGTTACCATTGTCTG	467
1107	ACGACTGAATGCTCGATTGAG	1087
210	AATCCATAATGATGAATGTCTGCTT	186
458	GGAGTCTGAGGATGGAGCAA	439
163	CAGATAGGCAACGGCTCAGG	144
303	GTCGTTCAATACCGCTCGTAA	283
726	GCGATCGAGAAGCACATCAC	707
452	GGCTGTGGTGAGAATACGGA	433
447	GGCTGTGGTGAGAATACGGA	428
240	GGCTGTGGTGAGAATACGGA	221
155	CAGATTGAGACAAGTGATGTTAGGC	131
1223	ACGATGGATAGAGTGATGAGTTGA	1200
135	AGTGGCCGGATGGTCTAGAG	116
195	ACCAGCTACCATTCCACCAGTT	174
1125	GACATTGAGTATGGAAGCGATTG	1103
1205	GACATTGAGTATGGAAGCGATTG	1183
1117	GAATTGATGAGATTCGTTGAACTTC	1093
1180	AGAATTGAGGCAATGCGTTG	1161
546	TGACGCATTGACTTGGATACC	526
546	TGACGCATTGACTTGGATACC	526
1142	AAGATTGATGTTGAGAATTGAAGCA	1118
119	CCGTATCCTCCGTATCCGTA	100
438	CATTCCACCGTATCCACCAT	419
160	TCCTCGTCCGTATCCACCAT	141
250	AGCCTCTACCGTATCCACCAT	230
650	TTCATTGGAATCATCGACA	631
708	GGAGGATCTCATTGAAGTCATTG	686
611	GTTGTAAGTGAAGAAGTGATTGTGGA	587
591	GTTGTAAGTGAAGAAGTGATTGTGGA	567
582	GTTGTAAGTGAAGAAGTGATTGTGGA	558
640	GTTGTAAGTGAAGAAGTGATTGTGGA	616
632	ACCACCACCACGATGAGCAA	613
612	ACCACCACCACGATGAGCAA	593
603	ACCACCACCACGATGAGCAA	584
661	ACCACCACCACGATGAGCAA	642
1227	CATCCATAGTACAACCTTGAGTGTAGAGA	1200
765	TCCAGTTACTGACATGATACGAGTC	741
469	GACCGACTGCGAAGTTGCCT	450
547	AGTCTCATCATACCAAGTGTATCCAG	522

538	AGTCTCATCATACCAAGTGTATCCAG	513
643	ATTGAGTCAGAAGAGAAGGCGTT	621
917	GCTCTCTGGTCGTCTTGTGG	898
475	GCATGTAGTAGTGGATTGAATCTGAT	450
395	TGCGGTCTCTCTGGAGTATGC	375
164	GTTGGTGGGAAGACATTGGCA	145
272	CACAGATCAGTATTACAGCAACAGACTT	245
1301	CCAAGTCCACCACACTTCC	1282
821	TGGAGTTGGAGGTGCTTCAG	802
710	TTGAAGAACGCTGCATGGAC	691
396	CACGCAGTAGCATTGGTTCTTCT	374
167	GAGTCGGTCTCAACACGGAA	148
168	GAGTCGGTCTCAACACGGAA	149
2204	TGCAACCATGAGTTGAGTGAA	2184
318	TGTTCTGCGGAGACGAGTGT	299
4702	GACCATCTCCAACACCAACC	4683
22918	GACCATCTCCAACACCAACC	22899
1323	TGGAGAGGCTGGCATTGACA	1304
7909	GACCATCTCCAACACCAACC	7890
327	CTCAACGCAGCCTTCCAGTG	308
368	CTCAACGCAGCCTTCCAGTG	349
334	TCTGTTGGAACCTTTCAGAAGACA	311
177	TCTACCATGTCGAGCCAACA	158
226	TCTACCATGTCGAGCCAACA	207
1064	CGACGAGAAGCTAGAGCCAT	1045
536	ACTCCATCAGGTAAGAATAATCCG	513
222	CCGATTCTTCCATTGTGAGG	203
877	CGTTCCTCGTCAGACAGGTCAC	856
794	GCCGCACCAGACATAGGAAT	775
318	ACGAACGTATCCGCTTCTGC	299
1713	GCCGCACCAGACATAGGAAT	1694
123	GAGCAGTATCCTGGCGGCAT	104
680	AATGTTGATTGAGCTAGAATCCG	658
905	CAGCAAGCAATCAATCCGAA	886
665	AATGTCGATTGAACAAGAATTGC	643
469	CGTCCATATAAGAAAGTGAATCCAA	446
311	AGAGTTCATAATGCAACCGATTG	289
406	AGAGTTCATAATGCAACCGATTG	384
747	TGGCTCCTGATTGTTGTCTG	728
882	TGGCTCCTGATTGTTGTCTG	863
679	TGCTGCGTTGAATGATGGAA	660
2111	CTACAATGAACACACACTCGCA	2090
1243	TTGCCAATGATTGAAGTCTCTG	1222
1736	GGTTCGTGAGTGTTCTCTGG	1716

127	TCGTAATGCTTGTTATCATATCACTG	102
280	GCAACGAGATCACAGCGAAT	261
675	AACTGCCATTCCGATATAAGACC	653
1587	CCTTGATTCCGTTCCATTGAG	1567
889	GGATCGAATAACAATGAGCACA	868
562	CATCTGATAGATCAGCAGCTTGA	540
415	GGATTGCGGAGCCAACGTAC	396
1029	GCTCAGTCTGCTTACATGTTCTACC	1005
822	AACCAACAAGAGCACGGCAA	803
566	GCTGCTTCAACAATTCCACAG	546
176	AGAACCAGCAGAACCAGGCA	157
97	CGGCTCATTCTCATTGCGAT	78
132	GTGACCTTCCGCATTCCGAT	113
605	AATATATCGTCGAGGAGAGCTAGGTAC	579
746	TTGCCATTAGAGTCGTTCCG	727
853	TTCTTGGTGTCTGCGTTGTG	834
173	TTCGTGTAGACGACATCGATCT	152
1120	TTGACCGATTGAACGACCTT	1101
182	GCGGCACAATGATGAGCAGT	163
1165	AATCTTCATCCATAACAAGCCGAA	1142
1441	CGGCGTAATAAGTTGTGAAGTCG	1419
762	GGTGCAAGAGCATGAACAGC	743
498	CCATCCAGCAAGACCAGCAG	479
462	CCATCCAGCAAGACCAGCAG	443
118	CATTGTAGTAGTCGCTGGCACA	97
489	TTAATCAGCAGCCATCGGAT	470
866	CTCAACGAATCCGCATCTCC	847
2230	GCTGAGGAAGAAGTAACCGTAGAC	2207
3399	GCGGAAGAACAAGATGAAGATG	3378
3399	GCGGAAGAACAAGATGAAGATG	3378
685	ATCACGTAGGCATCGTCGTC	666
685	ATCACGTAGGCATCGTCGTC	666
513	TCCGTCTGATCCATCATTAGG	493
129	ACGATGACGAAGTTGAGCGA	110
80	TGGTAGGATTGCTTACGATCTCCA	57
533	AATTCGGTGCAACTGTTGGC	514
459	ATTGGAAGTGGTATCGTTCGTT	438
396	AAGTATAGCTGTACGTGAGATCATTGTC	369
938	TGTCAGGTAGCGACCGTGTC	919
390	CAGGCGATCATTGAGAAGAAG	370
447	GCGAGGCGAAGTGAAGAAGT	428
441	TAGCTGGAACACGCTTCTGG	422
282	CGGAATCCATTGTGCTGTGT	263
447	TCGACTCAATCATTGTAGATCTCC	424

1706	ATCACATTGTCCGATGACGAT	1686
629	GGACCATTTCGGACCAACCAC	610
1788	ATCACATTGTCCGATGACGAT	1768
1382	ATCACATTGTCCGATGACGAT	1362
1229	ATCACATTGTCCGATGACGAT	1209
1104	ATCACATTGTCCGATGACGAT	1084
990	AGTGAACGGAACACTACCAACC	969
695	AAGTGAATGTGGAGAGTCGGAT	674
1883	CAACACGAAGAAGCAATCCG	1864
2090	CAACACGAAGAAGCAATCCG	2071
261	GTTCCGCTTCCGAGACCATT	242
127	AATCGTCAATAGGTGGCACAG	107
864	ATGGCGAGAGAAGCGAGAAC	845
864	ATGGCGAGAGAAGCGAGAAC	845
136	TGATAAGGAAGCACTGATAAGTCAA	112
133	ACACCAAGACGGCAACCACT	114
170	ACACCAAGACGGCAACCACT	151
120	GGTTCGCATTACCAAGAGC	101
662	TCCGTCGAGAAGTTGTCCAA	643
1079	GGACAGTACCGAGAAGAAGAAGAC	1056
986	CAGAATAGACATTACGATTCCG	964
375	ACTTGTCGTTAGAGGAACAGTCG	353
515	ATCGTGAATGTGAGGCGGAA	496
472	GAAGACGAGCTCACCATTGTAAG	450
415	GGTATTGAGATTCTGTTCTTCATTG	390
390	AGCGAGGTAGTGAATAACAACGAC	367
631	CCGTTGTCTCATCAATTATTCCTT	608
259	CAGCTCTTGCTTGATCTTCTGC	238
882	CCTCAATTGGCCAAGCTTCA	863
439	GGAGAATAGTTCGTCCATATCGTT	416
251	TTGTTACGTGCCACTTGAGC	232
197	GAAGTCGCAGATGTTGATGACG	176
574	GTGGAGGTGGAATCGCTGTC	555
574	GTGGAGGTGGAATCGCTGTC	555
574	GTGGAGGTGGAATCGCTGTC	555
226	ACCACCTCTTCCTCGTCCTTGT	205
357	TGAGACAAGACGCCAGAATAGG	336
1906	GAGCGAGAGGATGAAGAGAAGTAG	1883
408	GGTGATAATCATGAATCCAGCCA	386
1881	GAGATGGTGGCTGTGGAGAA	1862
390	CTTCCATTTCGTCTCCATCA	371
342	TGGAGTGGCTGATGTAGATGACG	320
264	TTGTAATTCAGCCTCGATCTTCT	242
388	CTCCACGCACAGCAGTCCAA	369

514	CAACAGAACGAGGAGAGGAAGA	493
1170	CATTCGGCATTTCGGAGTGAT	1151
100	AGGCAATCGTCGTTCCGGTAG	81
384	AGGCAATCGTCGTTCCGGTAG	365
506	GTGTGCTCGAATCGGCCGAAT	487
100	AGGCAATCGTCGTTCCGGTAG	81
100	AGGCAATCGTCGTTCCGGTAG	81
711	GTGTGCTCGAATCGGCCGAAT	692
378	AGGCAATCGTCGTTCCGGTAG	359
491	GTGTGCTCGAATCGGCCGAAT	472
471	GTGTGCTCGAATCGGCCGAAT	452
711	GTGTGCTCGAATCGGCCGAAT	692
902	GTGGTTGTTGGTTGACAGGAC	882
340	AACCATCTCCGACATAGCCTT	320
166	GATCAAGACTGAATCCTCCACAA	144
1647	GAGCAGCAGGTTGGTGTGTG	1628
1887	GAGCAGCAGGTTGGTGTGTG	1868
3281	CTTCAACGCCTGTTCCGGTGT	3262
3521	CTTCAACGCCTGTTCCGGTGT	3502
965	CATTCCATAACCATACGCCTGA	944
403	TACAATGGCTTGTCTGTTCCG	384
331	GCAATGGTGGACGAGAAAGTG	312
937	CATTGGAACAGTTGTGTAGATATAGGAT	910
964	GCTTGGTTCTGGAGTTGGCT	945
132	CAAGTTGTGGTCCAAGTGGTG	112
767	TGTCCATCTAACTGATCTCCTGGATT	742
770	ATCCTTGTTCCGGCAGTTGTC	751
1004	GGAATGACGTAGGCTGGAGA	985
1044	GGAATGACGTAGGCTGGAGA	1025
625	TGTAGTAACGTAATCATGTCGTGAAGA	599
717	TGTAGTAACGTAATCATGTCGTGAAGA	691
514	GAGTAAGAAGATGTTGAGTTGGATTG	489
499	GAGTAAGAAGATGTTGAGTTGGATTG	474
122	TCTAAGGAGTCGAGCACTGAGAA	100
133	GTTGTAGTAGATGCTGGTGTCGTAG	109
133	GTTGTAGTAGATGCTGGTGTCGTAG	109
133	GTTGTAGTAGATGCTGGTGTCGTAG	109
111	GCGAGTCTTCGAGACTTCCAA	91
184	GAAGTCTTCTCCTCTTGTAATTCAGC	159
431	CGTATTCTATCATAGCGACCTTGTG	407
631	CCGCACAACAAGCAGATAGG	612
575	ATTGCAAGATATGGAATTATGCTCT	549
506	CCATCGCTAGTCATATACATACAGACC	480
857	GGTAGACATAATCCGCCATAGG	836

751 TGAAGGACACTATAATTGATGAGTTCA	725
605 GCCAATCCAAGCACTACAATG	585
809 GCCAATCCAAGCACTACAATG	789
978 AGGAGGAACTTGTTGGCGAA	959
1186 ATGAATACTAGAACATAGACACCGATGA	1159
1160 GCCAGAATGAGTGATGAAGAGTT	1138
428 CCATCAATAATCCACCACCGA	408
259 CTCAATTATTCCTGTTTCGAGAGTT	235
411 CAATGCCTTGAACAACGGAA	392
184 TGAATTCTCGTCGAGGAGCT	165
1338 TGATTCTGATAAGGTTGTTGAGTCG	1314
1332 TGATTCTGATAAGGTTGTTGAGTCG	1308
210 TGAATTCTCGTCGAGGAGCT	191
287 CATCTCCTGAAGTCTTCTTGGC	266
129 AATAGGCACAATGGAGCAATG	109
123 TGACGTCTCACGAAGAAGGTT	103
153 GAAGAAGAAGAATGTGGCGAAT	132
86 AAGACGATTATGGCTTGTGGAG	65
783 TGATACAGTAATACATTGTCCTCCGA	758
842 TGATACAGTAATACATTGTCCTCCGA	817
385 CCATAGCTTGAGCAGCATAGGC	364
443 CCATAGCTTGAGCAGCATAGGC	422
414 CCATAGCTTGAGCAGCATAGGC	393
137 GCGTTCGAGTACATCCTCCGA	117
833 GGAGAGTTACGAGCAAGAGCATC	811
671 GACACATAGTCCATTGTTTCGGTAG	648
873 GCACATTCCGTGTAGAGATATGC	851
208 TTGCCATTCTCGGTCTCCAG	189
256 TGTCTGATGACGACTCCTTGG	236
256 TGTCTGATGACGACTCCTTGG	236
455 TGTCTGATGACGACTCCTTGG	435
1147 CAAGGACGACATCAAGCAAGT	1127
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2396 TGATGCTGTTGATGTTGTTGTGAA	2373
182 TGTTCCTTGATTTCGACAGTCTCCA	159
182 TGTTCCTTGATTTCGACAGTCTCCA	159
857 GACTCCTGGTGGAGGTGGAT	838
1643 TCGGCAATCTCTTCCTCACG	1624
1544 TCGGCAATCTCTTCCTCACG	1525
303 TCGGTGTGCCATTCTCGTTC	284
313 TCGGTGTGCCATTCTCGTTC	294
704 CGTGATTCTGATTGTGGTGTGA	683
714 CGTGATTCTGATTGTGGTGTGA	693
439 GTTGGCAGACGAGACAGGAG	420

415 GTTGGCAGACGAGACAGGAG	396
323 TCCAGAATCTCCTTATCGGTGA	302
356 CGTTGGTCATTCTTCGCTT	337
296 CGTTGGTCATTCTTCGCTT	277
147 CACTGTGTGTCGTTCTCTGC	127
373 CGTTGGTCATTCTTCGCTT	354
411 CGTTGGTCATTCTTCGCTT	392
1529 GGCTGGTTGGATTGTTACG	1510
140 AAGAACGCGATCCACCAACA	121
122 CGCCAAGTTGTGTCTCAGTACG	101
2157 GTGTGGCTGGAGAGGATGAG	2138
2157 GTGTGGCTGGAGAGGATGAG	2138
1022 TGGATCACGTTGTTCTTCATTCAG	999
300 CAGGTCGTTAGATGCGTAATCAG	278
443 CTCCGCAGATGTAGTCTCCGT	423
443 CTCCGCAGATGTAGTCTCCGT	423
236 CGGCAGACTGAATGTGATTG	217
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236 CGGCAGACTGAATGTGATTG	217
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5361 GCACCGAATACGATTGGAGT	5342
511 ATGGTGGTGGATGAGCAAGC	492
3179 ATGGTGGTGGATGAGCAAGC	3160
3287 ATGGTGGTGGATGAGCAAGC	3268
158 ATGGTGGTGGATGAGCAAGC	139
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3287 ATGGTGGTGGATGAGCAAGC	3268
3197 ATGGTGGTGGATGAGCAAGC	3178
3305 ATGGTGGTGGATGAGCAAGC	3286
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2443 TCGGACGCAGTTGTTGTGAC	2424
3197 ATGGTGGTGGATGAGCAAGC	3178
3305 ATGGTGGTGGATGAGCAAGC	3286
1014 ATGGTGGTGGATGAGCAAGC	995
1032 ATGGTGGTGGATGAGCAAGC	1013
123 GCCATTGGCGTAGAACGTAT	104
132 CCGTTGCTTGCTCAATTCGTT	112
136 GCTGTCACGTAATTATCTCGTCAA	113
143 CCTAAGTTCTCCTCGAATTATCCA	120
441 CGCTCATCAGTTGGCATTGG	422
151 CCGCTGTCTTGTGGTAGGAA	132
255 CGGTTACGCATACGGCTGAG	236
255 CGGTTACGCATACGGCTGAG	236

1609	TGCTTCTACGATACGCTGACAA	1588
596	CATCATCATGACGGCGGATT	577
618	AATGATGCTGGTAGAGACGGTAGA	595
676	AATGATGCTGGTAGAGACGGTAGA	653
441	CCTTCCACCACTTCCTCCAG	422
241	TCCGCCGATAATCAATGTTG	222
365	ATCCTCCAATGACACGGCTA	346
159	TGCTTCTTCGGCTTCCTTGA	140
471	TCGGACAACCTTGCTTCTTCG	452
275	CTTGGTGGCGTCAGTGTCTC	256
369	GCAAGCATTGTTCCGAAGTAG	349
486	CATTGTCATCAAGTTGAACTGGAAC	462
2711	AACAACAATGGACACGAAGTAGG	2689
2711	AACAACAATGGACACGAAGTAGG	2689
241	TTCAATACGGCGGTGTTGTC	222
221	TTCAATACGGCGGTGTTGTC	202
1001	TCGCCAATGTAGCTGTACGG	982
1001	TCGCCAATGTAGCTGTACGG	982
1001	TCGCCAATGTAGCTGTACGG	982
4505	CGTTCAGATAGTGCGATTATAGGTAA	4480
567	AAGCCATTGAATGAACTTGTCC	546
125	GATCGAATGCGGTAACCAGT	106
548	GAGCAACATAGTCAAGACCAAGTG	525
555	GAGCAACATAGTCAAGACCAAGTG	532
724	CACTCTCCACCAGCCTTCTTC	704
1795	GTGTATTGGAAGTGTACAGTAGCAGA	1771
1783	GTGTATTGGAAGTGTACAGTAGCAGA	1759
562	GTAATAATGGTGGAAGAAGTGGCT	539
973	GTAATAATGGTGGAAGAAGTGGCT	950
725	GATTGTGGTCCTTCTTCTGGTC	704
269	GTGGCGTTCTCTGTTCTTGC	250
847	GGAGGCTCAGAAGTAGATGTGCT	825
795	GGAGGCTCAGAAGTAGATGTGCT	773
193	CGCCACTAATCGGTGAGCAA	174
975	GTCCGTGATTAAGCTTCGGA	956
472	CGTAAGCGCATTCTTCGATT	453
709	GAATAGCATCCGTTGAAGTAGGCA	686
976	GGTCCGTGATGATGCTTCGA	957
414	GGCTGTCGGAGATGTGGATT	395
180	GTCTGGCTGGAAGACTCTCG	161
537	GCATCCACCACATAAGTCCGA	517
569	GCATCCACCACATAAGTCCGA	549
137	TTCTCCATTCTTCTTATCATTATCGAA	111
142	TTGTTGCAGAGTTCGTTATCAGTATG	117

253	AAGATTCCGACTACGTGATAAGCT	230
346	AAGATTCCGACTACGTGATAAGCT	323
646	GGCAGCATTCCAGTTCAAGT	627
690	TGGAGTAGTTGGAGTCGTGAGCA	668
1316	GGAGATGGTCTAGTCACTACTTCAGTT	1290
829	TGGTTGGAAGAGAATGTGGAGAT	807
153	CAGTGGTGTTCGTGCTCTTG	134
255	GACACTGAATGCTCATCGTGAA	234
453	GACACTGAATGCTCATCGTGAA	432
758	GCCATATACGGAAGTGTGATGC	737
210	GCGGTGAAGCAGTTGTAGATG	190
635	GAGAGTGGCTGCTCGTTGGA	616
700	GAGAGTGGCTGCTCGTTGGA	681
127	TTATCCGCAGTGCATAGCAC	108
989	CAGCAGATAAGGAAGAATGTTGATAC	964
853	CAGCAGATAAGGAAGAATGTTGATAC	828
320	CAGCAGATAAGGAAGAATGTTGATAC	295
775	CAGCAGATAAGGAAGAATGTTGATAC	750
656	CAGCAGATAAGGAAGAATGTTGATAC	631
766	CAGCAGATAAGGAAGAATGTTGATAC	741
1658	GGTGAGGTGCCAGGATGTAG	1639
146	AACGAGATGTTCCATTCCACTT	125
160	GCAGCTTGCCTCTCAGTCT	141
164	TGGTTGTACGAGACATCAACGG	143
585	CAGCAGCCAAGTAAGGTGTTC	565
789	TGTCGTTCTTCATTCCGTCA	770
505	CGAGAACCGAGTCAGCGATT	486
1081	AGAATGGCGTCGTTGATGTG	1062
512	GCGAGTGATAGGCGTGGTTC	493
132	CAATAGTCACAAGCCGGTACG	112
1362	CACTGAAGAAGCGTTGGAGAA	1342
1350	CACTGAAGAAGCGTTGGAGAA	1330
446	TCATATACAATACCGTTCTCATCCATG	420
145	GGACGAAGAAGTGTTAGATGAGGA	122
441	GATAGCTCCAAGTGATCGAAGG	420
707	CATTGCCTTGACGAAGATACCT	686
3264	GCGAAGCGATTGTTGAAGTGTT	3243
3267	GCGAAGCGATTGTTGAAGTGTT	3246
140	CGGAAGCATCTACGGCAGAG	121
832	TGCGATTACATAGAAGATATGAACCT	807
139	GCTGCTGCTTCTCCTTCTGTAG	118
907	GGTGGAATCATTGTCATTGGCA	886
293	GAGCGAAGGTGAGCGTTGGT	274
235	TTGTCTTCTTCGGTCGGCTT	216

1831	GGCTGCCGACATGATACTGG	1812
287	ATGAGGAAGTCGGTGAAGCC	268
287	ATGAGGAAGTCGGTGAAGCC	268
1779	CAGTTGTGATTGGACGACGA	1760
1774	CAGTTGTGATTGGACGACGA	1755
607	TTCTCCTTCATACAATTGACGCA	585
3511	TCCGCTCTCTGATTGCTGAT	3492
191	GCTTCCGAGTGACAGATTCCA	171
253	CACGCTAATCAACTTGGTGAGTAG	230
576	GATTCCGTTGCCAGTGAGTT	557
1385	AAGAACGAGAAGTG TAGCAAGAAGTGA	1359
264	TGATGAGATGACACGAATAACAGC	241
552	GCGGTAATAAGCGGTG TACTG	532
201	AATCAACTGAGGCAACTCCGT	181
224	GTTGGCGAATAGGAGCGTGT	205
421	GCAATTATCAGCCTTCCAGTCTT	399
853	GCAATTATCAGCCTTCCAGTCTT	831
182	GCTGGAGCTGGAATTGAGGT	163
299	GCATTCCGTAGCATTCTCCTT	279
783	TTCTCGGAGATCAAGAACAGTCTT	760
1407	CCACTAGGTGGCAGTGAACATC	1386
446	CCAACAGTGGACAATGACAAGA	425
249	GCCTGGAAGAATCACAATATCG	228
352	GAACATCTGTACGGTAGGAGACG	330
526	GTAGGTGTACATCCACGCCAA	506
526	GTAGGTGTACATCCACGCCAA	506
255	GATTCCTTCGTCGTT CAGTTGT	234
1082	CTCCATACGCCGACAGTAGC	1063
258	GATTCCTTCGTCGTT CAGTTGT	237
656	GCAGTATGGACATTACGTTCCG	635
995	CAGTTGAAGCAAGTGTTGGCA	975
463	GGCATTCCAGAAGGATCTCAA	443
463	GGCATTCCAGAAGGATCTCAA	443
955	GCAGCGACGAGATTCTATGC	936
1227	CAATACGGATCGCTTGGTATG	1207
134	TAAGCCTAAGCACAATCCTAAGCCTAT	108
427	TAACCTGCTCGCCACGCTCT	408
861	TGCTGTGGAGTGCGTGGTAG	842
864	CATAGTGGCGATCATCATAGAGTACC	839
812	AAGGCGACGACTACCAGCAT	793
415	GTGAATGTAGCCGCAAGGAT	396
1561	GGATAGACACGGAAGGAATGG	1541
501	TCTGTGGAAGGTGTAACAATAGTTG	477
1666	TGGAAGTGGAGTCGGCTGTT	1647

711	GATGATAATCGGTGAAGGTTCC	690
547	ACTTGATGAATAGGTTCTCACGCCTT	522
183	TCGGCGTCATGTAGAAGAAGAG	162
337	GATGATATTGCCTTCGTGTGC	317
363	TGAAGTAGCACATTGAGTCTCCATTG	338
464	TGTGGTTGTAGTCGTCGTGGT	444
320	TTGTGGTTGTAGTCGTCGTGGT	299
362	TTCATTGGATGACGGAGGAG	343
751	GCTTCTTCATTCCATTGCGA	732
168	GCTGCTGCTGCTAGTTGGCT	149
120	TCTCGTATTCCGGTTGATCG	101
593	TCACTCCAGAATGTAAGTATAACCTT	567
258	TTGATGGTGAAGAGTGGAGGTT	237
1077	GGCTGCGATCTCATCTTGATAG	1056
1098	GGCTGCGATCTCATCTTGATAG	1077
3434	GCATCACTTCCATCACTGTCC	3414
162	TTCGTCCATCTCCTTGGACTT	142
3569	GCATCACTTCCATCACTGTCC	3549
182	CATGTCGATGTTCTTCTTGTAGCC	159
295	CATGTCGATGTTCTTCTTGTAGCC	272
366	TCTTCATGTTTCTGATCAATGTTCTC	342
108	CACCTCGCAGTTCATTACCTC	88
1531	GTGGATCTTCTTGTCTTTCATCGT	1508
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2170	ACGAGACGGTGATGGAAGTGTT	2149
2221	ACGAGACGGTGATGGAAGTGTT	2200
1318	TGAAGCGTTGAAGTTCTCCAA	1298
1318	TGAAGCGTTGAAGTTCTCCAA	1298
1369	TGAAGCGTTGAAGTTCTCCAA	1349
244	TCTTCATTAGCATTGACTTCGGT	222
236	GTGGATCTTCTTGTCTTTCATCGT	213
244	TCTTCATTAGCATTGACTTCGGT	222
244	GTGGATCTTCTTGTCTTTCATCGT	221
1669	GAATCGGCTGGTGAATGGCT	1650
1863	GAATCGGCTGGTGAATGGCT	1844
170	TTCAGAAGGAGATACTGTCCGAACA	146
499	CTTCTCCACCAACTTCACCAA	479
477	GCATACTGGTGAATCGTCTTCG	456
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1247	GGAAGTGGAGGTGGAGCATA	1228
90	GGAGGATGCGAGCAGAGTGT	71
419	AAGGTGTTATACGCAGTCTCTCCAA	395
1166	CCAGATTCCTTGTGTTGCGA	1147

238	GACGACGGACACGCTTGCTA	219
223	GACGACGGACACGCTTGCTA	204
233	GACGACGGACACGCTTGCTA	214
574	CGAAGGCGGTGAAGAAGATG	555
865	CGTTGATACTGCCAGAATGCT	845
865	CGTTGATACTGCCAGAATGCT	845
942	CGTTGATACTGCCAGAATGCT	922
1640	TCCTGGTGCTTGAAGTGTGA	1621
1561	TCCTGGTGCTTGAAGTGTGA	1542
351	CATGATGGAAGCATTGTGAATC	330
375	ATACGATGAGATGGCGAGCA	356
375	ATACGATGAGATGGCGAGCA	356
286	ATACGATGAGATGGCGAGCA	267
2138	TTGATCCTCCACTTGATTCCA	2118
1933	TTGAAGTACTGAGTGACATCTCTCG	1909
2188	TTGATCCTCCACTTGATTCCA	2168
121	ATCGCTTCCACAACCAGACA	102
142	TGGCGAGTGGTTAGCATGTAAG	121
130	TCAATCTTCGACAGGCAACG	111
131	ATTCCATCTCTTCAATCAACACACT	107
127	GAATAATTCAATGAGTCCGCCTT	105
606	TGTCATTATCAGGAGAAGTTGTGC	583
1240	ACGAAGACCTCCATAAGCCAT	1220
370	CATCCACCGTGTCCACTTGA	351
382	CATCCACCGTGTCCACTTGA	363
335	TCGGCTCTCGTTCTCCACAA	316
124	TCCAATGTCTGAATCCAATCG	104
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974	CGAAGAAGTTGAAGGATTGCTC	953
203	ACGATACGCTCGCAGCACTT	184
203	ACGATACGCTCGCAGCACTT	184
370	GCGAGAGCATAATGAATGACG	350
159	TTCTGCACACTGTTCTGCACA	139
332	CCGTTGATACAATAATATTCTCTGG	307
858	CATGTATCGTTGTAGAGGATGTCTTC	833
3124	GGATCAGTCGAGAGAGGAGAGA	3103
3069	CAGACGGACGGAATAGAAGGT	3049
812	GCTCATAAGACGATTCAACACG	791
3247	GGATCAGTCGAGAGAGGAGAGA	3226
680	CAGAGGATGTCGGCTTCACC	661
678	CAGAGGATGTCGGCTTCACC	659
3069	CAGACGGACGGAATAGAAGGT	3049
2952	CAGACGGACGGAATAGAAGGT	2932
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3112	CAGACGGACGGAATAGAAGGT	3092
326	CATTAATTGCACGGAGAAGACA	305
561	TGGAATTGGCAATGGTGATG	542
271	TCCTCCGTGACCGTATCCTT	252
1049	GTA CTGTTGGCGAAGATGAG	1029
655	TGTCATCAACTGTGCCGAAT	636
478	TGTCTGTCGGACTCCATGATAC	457
1395	CTGTCTCCATAGTACGCCATTG	1374
182	CGAGTGTGTAGTTGAGAAGGCGAA	159
241	TGCAGTCCTGAATCTGATTGC	221
1232	CCTCGTGAACTGGATCAAGC	1213
1140	TGCTGAGGAGGCGGTGTAAC	1121
788	TGCTGAGGAGGCGGTGTAAC	769
490	ACTCCTCAATCGCTGCATCA	471
1766	AGCTGTGACTGTTAACATCATAACACA	1741
493	TTCAGATTCCATAATCATGCTTCTAG	468
165	ACTATCAATCATATTGGTCTTGGTCA	140
490	CCACACCTTGCTCTTGCTCT	471
599	TTCTCCATCACCTCATTCGG	580
4571	ACGAGGAGACGACGGAGTTC	4552
4493	ACGAGGAGACGACGGAGTTC	4474
1347	AATACGTACGGCTTCGCTTG	1328
683	CTCATCAACTTGGTCGCACTC	663
150	AAGATCCTACCTCTGCCTACGTG	128
173	CCATCGTCGCTCTCAATATCC	153
169	TTGTATTGTTCTTCGATTCTTGAGA	145
694	CATGCTTGATGTTACTAGAAGTCAACA	668
949	TGTAGGTCGGACGGTTCGGT	930
663	CACAATCATGTACTGTCATACAGAACA	637
1633	CGCCTTGAATGTGAATGACTG	1613
487	GGAAGTTGTGGAATACGACGA	467
1232	ACATGCTGATGATGGCTTGG	1213
1243	ACATGCTGATGATGGCTTGG	1224
548	CCAGAAGTTGAAGTAGGATTGCC	526
334	TGGAGCAGCGACAGGAGTTC	315
551	CCAGAAGTTGAAGTAGGATTGCC	529
524	CCAGAAGTTGAAGTAGGATTGCC	502
316	AGCATTCCGAGTGTTGGCAT	297
487	CGGCGGTAAGAGTACGGTCTC	467
562	ATGACTTCCGCATCGTCGTC	543
562	ATGACTTCCGCATCGTCGTC	543
560	ATGACTTCCGCATCGTCGTC	541
166	TCGTCGTCGTCGTCCTTCTGA	147
146	TTCATGGAGAGGAAGATGTGCT	125

90	TTCATGGAGAGGAAGATGTGCT	69
254	TCACAGGAATCGTTCTTGTACG	233
1286	ATGCTTGGTAGGTGTTGAAGATGT	1263
221	TCGTTCCACGTTGTCTACCATT	200
118	TCGTTCCACGTTGTCTACCATT	97
1191	TCTGAGCGACATCCGACATTG	1171
152	CGCCGAATACGTAGGAGGTA	133
1409	TCCTCTTGTTGCTTCTCCGTAA	1388
747	GATAGCAGCTCGCCATCAGA	728
119	AGGCGGAGTTGCTGGAGGTT	100
926	CAATCATCCTTCAAGTCAGCAA	905
334	CTAATTCAGAGCTCGGCGTT	315
344	TGTCGGTGTTGTCGACGGTT	325
105	CGGAAGTAAGTCAACTGGAACG	84
270	GAAGAAGGTGGCGACGAACT	251
494	GAAGAAGGTGGCGACGAACT	475
948	TTGAGGTTGGTGTGGAGGATT	928
289	AATGCGTTGTTGATGGCGTT	270
561	AATGCGTTGTTGATGGCGTT	542
282	GGACTGGTGATGATGATGGAA	262
283	GGACTGGTGATGATGATGGAA	263
256	GGACTGGTGATGATGATGGAA	236
242	GGACTGGTGATGATGATGGAA	222
331	CCTCTCGTTCGGTGATGTTT	312
583	GGTCTTCGTTGTGCTCTTCGTC	562
154	GGTCTTCGTTGTGCTCTTCGTC	133
325	CGTCTCCTTGTATGTCTGCGA	305
325	CGTCTCCTTGTATGTCTGCGA	305
457	ATTCCGCCGAAGATGACGAG	438
207	CGTCTCCTTGTATGTCTGCGA	187
361	CTGTCATGTACTCGTAGGCTTGAG	338
1049	TCCATTGTGCCAGGTGTTGC	1030
193	GATTGGACGGAGTGACAGCA	174
677	TGAATGCGGAGAACAGGAGAT	657
751	AGAATCCAGTAGTGGTGAAGGC	730
616	ACACGGCGATGAGGACAAGG	597
201	ACTTGGAGTCTGTGCTTGTTGA	180
129	TCTGACCTCATATGACCTTAACCTAA	104
202	TTGTGGACACTTCAATTGTGACTT	179
511	CGAATCTTAATCGAGTCGGTGA	490
839	GAGTCGCATAACCAGAAGCCA	819
97	ACCTCGTCGTCGTCAGTGC	78
157	TGAGATGGTTGATGAAGAAGGAC	135
962	GCAACAAGTTAATAGCAGCAGGAAT	938

806	GCAACAAGTTAATAGCAGCAGGAAT	782
962	GCAACAAGTTAATAGCAGCAGGAAT	938
198	TCCAGAACCGTCAGTGTCAA	179
192	ACGAATATTGCTCCACTTCTCAG	170
148	GACCACCATTACCGAACCAA	129
230	GGAGCAGAGAGTGATGATCCAAT	208
112	GGAGCAGAGAGTGATGATCCAAT	90
456	CGTGGCAGATGTGGAGAATG	437
444	CGTGGCAGATGTGGAGAATG	425
492	TCCGTATGCCTTCTCAGATAGC	471
506	TCCGTATGCCTTCTCAGATAGC	485
266	TGCTTGTTCTGCGAATACTAGC	245
239	TGCTTGTTCTGCGAATACTAGC	218
249	TGCTTGTTCTGCGAATACTAGC	228
266	TGCTTGTTCTGCGAATACTAGC	245
305	CAGAACGTGGTTGACTGGATT	285
234	CAATGGAATGAATGACAAGCG	214
1585	CCATTGTGATGTGTTCACTAGCAAG	1561
1585	CCATTGTGATGTGTTCACTAGCAAG	1561
162	AACTACGGTGGATGACGCAA	143
948	GCTGTGGTAGTAGGCGGAAG	929
3461	AGACAACACGACCGCTCCAA	3442
753	TCGGAGAACATTGTGACCTTG	733
379	CACACAATCACGTACAAGAATATCGC	354
660	CGACAAGACGATTCTATGTAGGAG	637
748	CAGATGTTAGAACCGCCAGGT	728
293	CCGTGTGTTCTCGAATAATTACCAA	269
137	CGGCTGGTCATGACGATTCTC	117
139	GCCTAAGAATTAGCTTCAGCGTA	117
126	TCAGAAGCTCGTCTTCTTCAGC	105
145	TCATTCTCACGGAAGGTTATCAC	123
162	CACAACGTAGATCGCAAGCC	143
355	TGTAGCTGCAACGATTGTAACC	334
534	CCTGTCACGTCTCTCTTGGC	515
249	GTCATCGAACGAAGAAGCAGA	229
251	GTCATCGAACGAAGAAGCAGA	231
154	CCTCGCTGTCTGTCTCCTCA	135
328	CCATGTTGAATTGGACATACACG	306
288	ATTGGAAGAAGGCGACGGTT	269
1019	CACTGTCGTTAAGCTCGTAATGAC	996
343	GGAATATTCCTGTTGATGGCA	323
181	TTCCTTCTCTCTGCGTCTCCT	161
1499	TCCTTGAGCCAATAGTCAGTGA	1478
1405	TCCTTGAGCCAATAGTCAGTGA	1384

1497 TCCTTGAGCCAATAGTCAGTGA	1476
519 CCTTCTTCACTGGCTTCTTGGC	498
519 CCTTCTTCACTGGCTTCTTGGC	498
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253 CCTTCTTCACTGGCTTCTTGGC	232
235 CCTTCTTCACTGGCTTCTTGGC	214
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1491 TTGCGTCTGTTGATGATTGG	1472
1407 TTGCGTCTGTTGATGATTGG	1388
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589 TTGCGTCTGTTGATGATTGG	570
554 TTGCGTCTGTTGATGATTGG	535
695 TTGCGTCTGTTGATGATTGG	676
411 TTGCGTCTGTTGATGATTGG	392
664 TTGCGTCTGTTGATGATTGG	645
632 TTGCGTCTGTTGATGATTGG	613
138 CTATTGCAAGACGAGCTCCTG	118
387 TGATGGTGGAAGAAGAGCGT	368
437 TGATGGTGGAAGAAGAGCGT	418
1663 CATTGCTACCGTTCCATTGTTC	1642
149 CATCCGTATCCTCTAGGACACC	128
874 GCCTCCTGGTTCTCCTGGTG	855
251 TCAGTGTGAAGTCGAGCAACG	231
1170 TGTGACATTCTGGACAGCGT	1151
662 GGAACCATAACGTAGCAACCA	642
1146 CATTGTCCAAGTCAGCTTCGTTT	1124
370 TTCTCGAAGATGCTTCATTGC	350
589 CGCTGCTCCATCTCACTGTA	570
1322 ATGATGATGAACAGGCGTGA	1303
1214 ATGAGTGCGATGACGGAGAC	1195
939 ATGATGGACGGTGTGGTGTT	920
146 AATTCTCGAGGACGGTAGGAG	126
158 GGTCGTCTCCTTCTTCATTCTG	137
118 CTTGCGTTCAGTATAATCTCGTTG	95
83 TCAGTATAATCTCGTTGTCCTCTCC	59
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83 TCAGTATAATCTCGTTGTCCTCTCC	59
118 CTTGCGTTCAGTATAATCTCGTTG	95
1681 AGTGCCTGCGGTTGAAGAGC	1662
118 CTTGCGTTCAGTATAATCTCGTTG	95
83 TCAGTATAATCTCGTTGTCCTCTCC	59

251	GTGCCGTGTGAGAAGTGAGC	232
1274	CAACTTCATCAGCGTATAGGACTACT	1249
209	CCAATGCTCAATCCTGCTCT	190
10258	CAGCGGCGACTTCTACCATT	10239
188	TTCCTCAAGATGCTCAACGC	169
149	CGATTGAGATGCTTATCGGTCA	128
2699	CGAGTAGTGAAGGAGAGTGGCA	2678
2969	CGAGTAGTGAAGGAGAGTGGCA	2948
89	CTTCGGATTCTGTCAATGACG	69
151	GCAAGATAACCATAATCCGCTT	130
141	AGACGGTCGAGAGAAGAGAACA	120
827	TGTTCACTGTCATCGGAGGA	808
337	CCTGCCAGATTCGTTCCATA	318
155	GCACATATCTATCCGCATCCAA	134
144	CTGACTCGCATCTCCACCAA	125
157	TGCCTCTGCTGGATTGGATA	138
442	CAACAGGCAGACTTGGCATT	423
431	CGTGTTTCGCCTCTCCGATTC	412
276	ACTGGAACACGCTGGCACAT	257
1682	TGAAGTGGTGGAGGATGAGG	1663
1682	TGAAGTGGTGGAGGATGAGG	1663
873	GTTGGCGATCTCCTCAGCTT	854
280	AGAAGTACAGTCAGCGGCGAA	260
115	AAGCGTTATTCGTACATTGAGGTT	92
672	CACAACTGTACGCCGTCCAC	653
602	GGCCAGGTTAGTTGGATTGG	583
746	TTGACATTAGTACATCCACTTCTTCATC	719
2026	GAGCATCCATCTTGTTACCTGAC	2004
940	CCACTTCGGCACCATCTACC	921
1565	ACACATCACTAGATTCTAGGTCCGA	1541
245	GACACAATCTCTTATCACTTCGGCAT	220
129	TTCAGATAACTTCTCCACAGTCGGT	105
370	CAGCTTCAAGTGTGTAATAGAGACTCA	344
1193	TGCCAAGTCGAATATGATGTCTT	1171
965	TGCCAAGTCGAATATGATGTCTT	943
474	TGCCAAGTCGAATATGATGTCTT	452
295	CAGCGAAGAGTTGACGAAGG	276
395	AGGTGGTGGTGGGAACGAACA	376
913	GAGGTGGTGGTGGGAACGAAC	894
467	AGGTGGTGGTGGGAACGAACA	448
467	AGGTGGTGGTGGGAACGAACA	448
1058	CGTTCACGAGCTTCTCTTGC	1039
394	AGGTGGTGGTGGGAACGAACA	375
331	AGGTGGTGGTGGGAACGAACA	312

986	CGTTCACGAGCTTCTCTTGC	967
90	AGGTGGTGGTGGAAACGAACA	71
606	CGTTATGATGGTGTGATGTTGA	584
668	CGTTATGATGGTGTGATGTTGA	646
142	CATGGCAAGACAGACGGTACA	122
330	ATGTTCCAGCGTCGTTTCAGA	311
271	ATGTTCCAGCGTCGTTTCAGA	252
140	CTCGTCGCTGTTGCTGTTGC	121
249	CTCGTCGCTGTTGCTGTTGC	230
140	CTCGTCGCTGTTGCTGTTGC	121
253	CTCGTCGCTGTTGCTGTTGC	234
260	CTCGTCGCTGTTGCTGTTGC	241
135	CTCGTCGCTGTTGCTGTTGC	116
209	CCGTCATCATTGAGCCAGTG	190
508	ACTGTCGTATTGTCATCGTGGA	487
140	CTCGTCGCTGTTGCTGTTGC	121
249	CTCGTCGCTGTTGCTGTTGC	230
459	CCGGAGGTATTCATCTTCGG	440
3274	GCTCCGTTCTCATCTGTCTTCA	3253
118	TGTATCCGTTATTGTTATTGTTGTTG	93
363	TCGGATTGATGTAGTGTTGACG	342
555	ATAGTCAGGTGCTGCCAACG	536
129	GGTATCCATTGTTGTTGGTTGG	108
395	AGATGGTGACAAGGTCTTCAGG	374
138	AAGTTCACGGAGTCGGTTCA	119
138	AAGTTCACGGAGTCGGTTCA	119
508	TGATAAGCGTTCCAGACGAGA	488
1067	TGAGCCATTCAAGAGCAACC	1048
320	ATAGATGCTGAAGGTTGCGTTAC	298
592	CAACAATCTCTGGATGGTCTTGATC	568
705	AACATCTACAGGTTGAGCAATAGTTC	680
488	CCAAGAACCACTGAGAGCACTG	467
2472	AAGACCGAACAGGACATACGAC	2451
578	TGTCGAGCGAGTTCTTGAGC	559
1260	TGTCCTACCAAGATTACGAGCCT	1238
1292	TGTCCTACCAAGATTACGAGCCT	1270
1429	TGTCCTACCAAGATTACGAGCCT	1407
412	TCGTCAACATCTCGGCTGGT	393
360	GGACAACGGAGTGGCAAGAC	341
267	GGACAACGGAGTGGCAAGAC	248
827	CTCATCATCAGACAGTTCCAAGG	805
103	TCAGTATTGCGTCGTTATTCAGA	81
136	CGGCTTGAAGTAGTGGAAGAGTT	114
136	CGGCTTGAAGTAGTGGAAGAGTT	114

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1124 TCAGCAAGACGACGAAGAATC	1104
932 CGAAGAGTCCATTGACAACGA	912
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770 AGCCAGATTCCGACGACAGC	751
890 CGACAGTTAGAGTATCAGAATCCAAT	865
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905 CGACAGTTAGAGTATCAGAATCCAAT	880
766 GAGTACGAACGTCGCATTGG	747
107 ATCGCTGCGTCTGATGATCG	88
712 CGGCATCTGAGTATCTTCTGGTG	690
1785 AGTGAGGATGCCTTCGCTTA	1766
1828 AGTGAGGATGCCTTCGCTTA	1809
197 GCATCTCCATCGCCAGTTGA	178
240 GCATCTCCATCGCCAGTTGA	221
1524 CCTTGATGTGCTTGTATCTGGCT	1502
133 GAAGTTGAGAAGTGAGACGGATG	111
444 GTAGAGGTCTGCGTCTTCTTCG	423
1825 GACTGGCATCCAAGAGCGAT	1806
1077 TGCTTCATTCATACAAGAATCCAA	1054
464 GGAACAGTGCTTGGTGGTGA	445
461 GGAACAGTGCTTGGTGGTGA	442
119 TGGCAGCACTGAGCATTACTACG	97
626 GGACGAACACAATAGACACCGA	605
310 CTTCCACCACCACCTCTCAA	291
1598 TTCTTCTCGGCTGCTGTGAC	1579
1564 TTCTTCTCGGCTGCTGTGAC	1545
1018 AAGACCATTGATAGACCAGGACTC	995
731 TCCGCCTTGCTCAGAACCTT	712
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392 TGATTATCTTCACCAGGTACTCCA	369
1998 ACACGCATCAGTTCATTCTTCC	1977
472 CTTGGTCGTCGTATTGCTCTC	452
692 TTGTTGAACTGATTCTGGAAGCAC	669
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1038 CAATCTCTGTCATCACATCACTTGCTAA	1011
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174	GCTGTGGATGGAGTGTTGCC	155
183	GCTGTGGATGGAGTGTTGCC	164
1892	GCATCGTGAATCATTGTATCGT	1871
196	TTCAGTTCTGCCAGATTGGTT	176
371	CTCATGCCATCATCACTCT	350
1157	TTCAGTGTAGAATGTGAGAGACGATT	1132
180	GATAATAGAACAACATGCATGTCGTCA	155
140	TCTTCCTTGATCCAGTCATCG	120
557	AGGAGGTGTAGATTCCGACAGTT	535
864	GGAGACGAGGAACGAGTCAA	845
603	GAATAGTCTTATTGACAGCATAATGGA	577
804	TGATTCAATGGCACATCCTG	785
201	CTCCTTGTCGGCGAATTGAC	182
215	CTCCTTGTCGGCGAATTGAC	196
266	CCACAGGCTGCTTGTATTG	247
397	CGATTGTTCCGTTGTGTTGA	378
415	GCATCCATTACTCTCTCCTGTTG	393
292	GACCGTGTGCAGGAGATGAC	273
265	GACCGTGTGCAGGAGATGAC	246
318	CAATTCGACTGGTGAACATCATGC	296
479	TGGATGTAGTTGCACGGAGA	460
130	GAGGCCAACCTCCTGGAATC	111
123	TACTCTCCGCCATTGTTGTC	103
2285	TCCAATAAGATGACACCAGACG	2264
451	ATCATCATTGCGGAGGAGAG	432
335	TTGCTGACATCCTCACTGCTT	315
247	CGCTTCAGGTTCTACATTGCCA	226
160	ATGTTGCGGACACTCACGGA	141
290	AAGCGGAAGGATGAGAAGGTT	270
1000	CATCGCCATTCTGTCTCATCAC	979
290	AAGCGGAAGGATGAGAAGGTT	270
447	GCGGACAAGTCTGATACCAAG	427
280	CTATGTCGGAGCAGGCAAGC	261
235	CCTCTTCTTCGTCGTCGTCA	216
129	CACGTAGCTACTAACTTGGTACACGA	104
1390	GCTGCTGCTGAGGTTGTTGA	1371
960	GAACGTCATGGATATTAGAGATGCTAC	934
1563	AGTGAGCATCCTATGAAGATATTCTG	1538
552	TCCAACACTCGGAGATGTGC	533
254	AACTCGGCGTACTCATTGCG	235
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1402	TCAACAACGGAGCAGTCAATG	1382
1248	TCAACAACGGAGCAGTCAATG	1228

976	CATACATCTTCGGACTTGCTCTG	954
544	CATACATCTTCGGACTTGCTCTG	522
240	GGCTCCAACATACATCTTCGG	220
345	GGCTCCAACATACATCTTCGG	325
391	CTGTTCTTCTCTCGCACCTGTA	370
141	TTGTGCTGTGCTACTCCTGTG	121
127	CACAGGAGTAGCACAGCACAAACC	105
121	GGTGTTACGAGCCATCGACTC	101
123	ATAGGCGGATGATGAAGCAA	104
194	AAGACCACATTCTCGTTCCG	175
670	CGGCAGCAGAGAAGACAACA	651
661	CGGCAGCAGAGAAGACAACA	642
231	GACGACGACCAAGTGTGTTGC	212
222	GACGACGACCAAGTGTGTTGC	203
670	CGGCAGCAGAGAAGACAACA	651
755	CGGCAGCAGAGAAGACAACA	736
670	CGGCAGCAGAGAAGACAACA	651
139	CGCTGTCATCACTTATATGATACTGG	114
395	AAGCGATTGCGGAGTGAATC	376
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765	CGACCTCGAGTTCCTGATGC	746
121	GCATATTGTAGATACGAATGGTTCCT	96
137	CAGAATCGCATGTTGTAGATACG	115
125	GCACTGACGATGATGATGATG	105
1705	GCTTCTTGTGTCAGCGTTGGAC	1686
1708	GCTTCTTGTGTCAGCGTTGGAC	1689
291	AGTGACAGCAATGACAAGAACG	270
241	AAGATGTGTCCACGATGAGCA	221
1455	CCTTGACTGGTTGTATGCGGTA	1434
835	GGAACGCAGAGTACGCAAGT	816
335	AACAACTCACTAATTGAAGCTCCAT	311
355	ACCGATAAGCATCTTGTGACG	335
328	CACTGACGGAAGCTGCCGTA	309
1019	CGTATAGGCTTAGTGAATGCGAT	997
162	CTCCTCCTCCGCATCCACAT	143
185	TGGTGGTGGAGCAGCGTATC	166
979	TCCATCGACACATAATAATCCTCGT	955
571	CGTTCGTCAGACTTCTTCATCA	550
669	GGTCAGTGCAGAACCGAATCC	649
533	GGTTCGCTAGTCATCACTCCA	513
221	TTGTTGTTCCGCAATCATCG	202
186	TTGTTGTTCCGCAATCATCG	167
173	TTGTTGTTCCGCAATCATCG	154
1529	AAGATGGCTGAGGTAGTTGTTGC	1507

335	GCGAAGCAGACACCATCAGG	316
920	GACTTCCGTTCTTCTTCCAACC	899
1696	ATCAACGATGGCGGTGGATT	1677
416	CCGATTGGAGTAGGTGCTTCT	396
231	CTTCTCTCACACACACGACGA	211
230	ACCTTATCACATTATCAGGCATTG	207
2158	CCGAGATGACATAGTGATTGAGAC	2135
1566	GAACTGAGAATGCTCTTGCCA	1546
1312	ATCACATTGTTCTCGTACTTCAGG	1289
1566	GAACTGAGAATGCTCTTGCCA	1546
604	GGACGGATGTTTCAGATTCACTT	583
192	GTTATAGATGATACGGTACGACGCTT	167
267	ACGATAAGGACCACTGAACACG	246
508	CCATCTTGAACCCACAGCAA	488
582	CCGATGGAATGTCTGATGATG	562
312	ATTACCACCGCCGAACACTT	293
465	AATGGAATACAGAAGAGTTGTGAGAA	440
177	CAACACATCATCCTGACTACCG	156
190	CAGTTGCTGAGAACACATTAACCTCG	166
941	CCACCACGGAGAATGATACC	922
923	TTCAAGTGTTGGCAATGGTG	904
232	CACCAAGGAACACGAGATAGAAGAG	208
1075	TCACAAGATTATAAGCAATCAATCG	1051
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267	TTGGTAGAACACGATTGATTAGAGAA	242
332	TTGGTAGAACACGATTGATTAGAGAA	307
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250	ATAATGCTCCAGAATACAACGATG	227
295	CAGAGGTGGTGAGGATGATGT	275
832	CCTTGTGTCTAATCAGGTGTGCA	810
706	GCGTTCGTAGATAGGACTCAAGA	684
155	CAACCAGAAGCCAGAGGACA	136
136	GCTCGAACACGTCGATGAGAT	116
230	GCTTCTGAATCTTCGATTCTTG	208
213	CCAACCTTGTTCACTACTTCAGTCAGA	188
1417	TTCTCCATCGCTCCAGTTCT	1398
871	GCCAAGTTGTCCAGGTTAGTAGG	849
1333	GGCCGAGTTGAAGAATTGAAC	1313
1333	GGCCGAGTTGAAGAATTGAAC	1313
597	CAAGAACCAGAGACCATCGG	578
378	CAAGAACCAGAGACCATCGG	359
1280	GGAAGTGCCAACACAAGAGC	1261

768	ACGAACTCCTTCCGCCTCAT	749
161	AAGCAACGAATTATGGACTGTTAGAAC	135
154	ACGCATGTCCAATAGGCGAA	135
178	AATAGAGTAACACAACACAGTCTCAA	151
703	TGAGAACCGTCGCCTGAATC	684
1144	CAGCATATGATGCCTCATTGAATG	1121
602	TTGTCAATGCTCTCTTCTGTCAGTT	578
378	AAGGTTCTGATCGGCAAGTG	359
153	ACTGGCTCTGCTGTGGCTGA	134
506	GTGTTGATGTTGCCGATGGT	487
155	CTCACAGCTGCTACTCGAGATTC	133
228	GGACCAATAGTCCAGGAATTCGT	206
485	ACGTCTCCTCCAGAATAACGAA	464
797	AATCCAGACACAGTTAAGTGATGC	774
123	CCATCCATCCATCCATCCAT	104
355	TGCTAGATGATCCGAACACGA	335
136	TGTAAGCAGTCCTGGCGAGT	117
552	GAAGAACAGCGGTACCAATCG	532
288	TCCATCACGGAAGTATCCAGAT	267
646	CAGCTTGTTGCATCAGGTCTAG	625
264	GAAGATTAGGTGATACACCGCAGA	241
600	GTAGTATGTGTTCTTGCTCTCTTGGT	575
190	GCACCAACATTACTTCACCGA	170
323	GCATCCATTAAGTCGGATCTCATAG	299
323	GCATCCATTAAGTCGGATCTCATAG	299
1569	GCCTTCTATGTACCTTCTGGA	1548
1198	GCCTTCTATGTACCTTCTGGA	1177
105	GGTGCCGTGTAGTGCTGACT	86
614	ACGCAGCGTATTGATATTCGG	594
4644	AATGCTGGATGGTAGCGTTC	4625
125	AATGAGACAAGTAGGCAGGCA	105
125	CCATTGTAGGCAGGCATAGC	106
1044	CCTGTGTAGTAGTGTGGTTCCG	1022
1043	CCTGTGTAGTAGTGTGGTTCCG	1021
898	CATCTCTCCATTCTTGGTAACCTC	875
880	CGTAGATGCGTTGTTGAGTGAGT	858
645	GCATCGAATCACTGTAGCTGTCT	623
619	CGAGTTGACCTCACTTCTTCTGG	597
351	GCAGTTCACATCTCCAATCCA	331
120	TCTTGCCGCACTCCATGATC	101
143	AATGAGACACAAGACCAGATTACATCA	117
195	CGAGGTTCCGTTGAATGTGA	176
793	TTATCTCCTCCTCCGCTCAA	774
793	TTATCTCCTCCTCCGCTCAA	774

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369	GCTTCATTATTACTGATCGAAGACACA	343
431	TTGTAGAGTCCGATGTGTGCA	411
1309	TGCTGACGGAATAGTTCTTGTG	1288
2400	ATGAGCAGACTGAGCATCGTT	2380
177	CCTTCCTGGTGGTCCTGGTT	158
132	TTCCTGTCCGCATGTCATCG	113
1041	CTCTGTCGTTACCACTACTCTCCA	1018
420	GTTGGCATCCTCTTCGTTGTAG	399
1069	TCCGACACGAATGCTGGTAGA	1049
364	TCGTCATATTCATCGCCACTT	344
362	TCGTCATATTCATCGCCACTT	342
140	CACTCTTCATCCAGAATCAACTCAT	116
121	AACGGCGGACAGAAGCCTAG	102
812	GAGTTGTTGATTCCAGCACGA	792
334	CAACAACCGTGTCTGCTCT	315
177	TTCAAGGTAGTCCGCGTCTT	158
150	TTCAAGGTAGTCCGCGTCTT	131
597	GAGATATTCTACAGTTGTGAGGAGGTT	571
784	AATATACGAACAGAATTATCATGCTGA	758
979	ATCGGACGAGTGGCTCAATC	960
417	TGATTGTTGGTGATTGTGTCG	397
373	CCAGTGACTACCGTTCGTTACCA	351
279	TCTCATAATCCGAATGCTCA	259
468	AGTGCTCAGGAGACAATTAGTTACC	444
256	AAGTGGTCCGTCATCTCCGT	237
477	TCGTCAGCACAGCAACAAGA	458
333	ACTCGGTGAGGTTCTGCTGA	314
273	TCGGATAGGAAGAGGATGAAGA	252
395	GAAGTGAATGATGAGAATGCCA	374
1297	GAAGTGAATGATGAGAATGCCA	1276
196	TCGTTCATATCGAGATTGTCAACT	173
500	ACAAGTCACCATTATGTGGAAGT	477
1164	ACTAACGGTGATATTGACATAGCCA	1140
179	GACTGCTGCTCGGAAGATGA	160
96	GACTGCTGCTCGGAAGATGA	77
296	GAACTTGATGCGCTATGCCAA	276
179	GACTGCTGCTCGGAAGATGA	160
96	GACTGCTGCTCGGAAGATGA	77
296	GAACTTGATGCGCTATGCCAA	276
122	GCTCGGACTGAAGCCATACG	103
545	CGGCAGTCGAGCTGAATGTG	526
545	CGGCAGTCGAGCTGAATGTG	526

153	AGCGGTGGAGGACAGGTAGC	134
155	TCTCCACTACCTCCAATTCCAC	134
687	GGTGTTGAGAGCTGCATCCT	668
981	AGCAGAGCCGGTGATTCCAT	962
259	ATTGAACGGCTGTGAAGATGTAC	237
787	GCACGAGAGCCAGTATGACG	768
344	GCTCTTCTTCTCTTGCTCCGA	324
201	CGGAGTAGATGTGGATGGTAGG	180
1322	TGATGTGTTGCTGTTAGAGAAGGAGA	1297
1456	GACTACCACAGCCACCTTCG	1437
317	AGAAGTTGTCGGTTGATTGGTT	296
184	TGTGCGAGGCAGTGTATGTG	165
165	CGAGAGACGAGACAACCGATG	145
953	AATAGCCATTCATCTCCTTCGTAA	930
165	CACACTACATTCGTCTCACTACTGC	141
807	AATAGCCATTCATCTCCTTCGTAA	784
124	GAGCCGAGGTCACGTGTGAA	105
133	GACACAGTGGCGGTCTGCTT	114
327	GCAGTCTTCGAACCTCTCTGTC	306
751	CACGATCACTGTCATCACCTACTG	728
328	CACGATCACTGTCATCACCTACTG	305
1713	GCTTGAGCCTGTTGAAGTTGC	1693
241	ATGGTGATCTACGATCTGGAGTCT	218
853	ATGGTGATCTACGATCTGGAGTCT	830
1505	TTGATGATGAACGAACTCTGTGA	1483
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1505	TTGATGATGAACGAACTCTGTGA	1483
1515	TTGATGATGAACGAACTCTGTGA	1493
763	CGAAGAAGATAGCCAGAGAGCA	742
833	CGAAGAAGATAGCCAGAGAGCA	812
714	CAGTTGATGTGACACCTCCGT	694
410	TGGCGATGGAGCAATAGGTC	391
688	TGACACCACCGTTACGAAGA	669
344	AGACGACGAATGAACTGATGC	324
415	CTGGAGTGTGATTGTCTTGAAGC	393
123	TGCCGTA CTCTCTCATCGTCT	103
158	ACGATGAGCAATCAGAGGAAGT	137
746	TGATGATGGTGCTGATGAGAA	726
386	TGATGATGGTGCTGATGAGAA	366
1329	GCCTCCGTCTCCACA ACTG	1310

130	GGTTACGTCGGCTACGCACT	111
138	ACTCTATCTACCACATCTTCGTCTTCT	112
1336	GCCTTCCGTCTCCACAACCTG	1317
223	TTGTAGCAGCTTCCTAATATCCG	201
164	TGTGCATAACATAACTGCCATCA	142
340	GAATATGGCAAGTCCTGACACTG	318
171	AAGTTCACGTCGTCGTAGACAA	150
151	CGACGATGCCGATTGAGAGT	132
654	CATCACTTGCCATTGAGCGT	635
619	CGATTGTCCATAGAGAATCTCGTT	596
580	GATAGGACAGGTTGCGGAAGT	560
799	GATAGGACAGGTTGCGGAAGT	779
766	GATAGGACAGGTTGCGGAAGT	746
512	GCACCTACTGATAACTCCGTGAT	490
4499	GCAGGAGAGGTGGATGGATT	4480
4546	GCAGGAGAGGTGGATGGATT	4527
4796	GCAGGAGAGGTGGATGGATT	4777
3056	GCAGGAGAGGTGGATGGATT	3037
2168	GCAGGAGAGGTGGATGGATT	2149
4496	GCAGGAGAGGTGGATGGATT	4477
3371	GCAGGAGAGGTGGATGGATT	3352
120	GTCGTCGTGTTGTTGGCAGT	101
124	CCGTCTTCTAACCTTCCTCACCTT	101
2353	ACTCAATCGTCAATCCTTCGTT	2332
497	TTGAGTGAGCGAGTGCGAAT	478
241	TGGCTCCTCCTGTGTTGCTA	222
901	GGTGTGCTTGTGTTGGAGAA	881
415	AATAGGCATAACCGTCGAGGT	395
378	GCAACAGCATCCACAGCAGT	359
568	CCACTTCACCAATCCATCCA	549
807	TTCTACAGCACTGCCAACCA	788
347	AAGAGATGAATAGAGACCACAGAGAGT	321
2963	GTCGGCAGCGATGTTGAGAA	2944
148	TTGCTCTCATCTCTTGTGTGG	127
394	TCACTGGAGGCGTACAGAGTATC	372
255	CTGAACACAGTAACAAGTGACCATT	231
1088	TGTAGAGAACGATGACGATAGCA	1066
1189	GCTTGTCTGCTGCTTGGAT	1170
427	TTCTGGCACGCTGTAAGGAC	408
322	CGACAATCCAGTCACCTCCT	303
826	AATGTTCGTAGACTTGACCTTGG	804
296	CGAATGACTGCCATACATCTGTT	274
424	TTCTCGCTGGAATCAAGTGTT	404
527	GGAGGATATAGGCTGTGTGTCTG	505

180	GCGATTACGGAGCAGTTCTTG	160
518	TTATGTATGGAATTGGATCTGCTC	495
1055	CAATGACTGGTGGAGTATCGTG	1034
1102	CAATGACTGGTGGAGTATCGTG	1081
153	CGTCACTCTCCGTTGCTGGA	134
1995	ACGCCACCATACTTCAGATTG	1975
86	CATCATCTGTCTGAAGGTGGAAC	64
242	GGAGCCTCTATATCTTGCACTTG	220
1505	TCAGATTCAGATGTGGATATTCTCG	1481
154	CTGACGGTGCGAGTGACATC	135
166	CTGACGGTGCGAGTGACATC	147
182	TTAGTTCCTACGCTGCTCCG	162
637	CAGATGATACGGATGGACGGT	617
153	TGGTCCGTGTGGATAAGAGC	134
159	CATCGGTGGTTGGTGCTGAC	140
384	CAGAATTGTCATCGACATTACCAT	361
468	TGCACGGTTACGATCAGGTT	449
123	GCCAATTGATATCTGAGCGATT	102
465	GGAGCCGAGAAGATAACTGATGA	443
856	AGTAGAGAGGAAGGCAGTGAACGA	833
857	TACAGCGGAAGGCAGTGAAC	838
145	GAAGTACAGCGATGAGTAGAACTGC	121
389	ACGGTGCTTCAGGATGTTGT	370
733	GATGAATTGATTATCCTTGAAGACG	709
165	ATCCGCAGAGCCAATCACCT	146
239	CTGGAGTGTAATCCTCTGGCA	219
1133	TGCTGGTTGTCTTGATTCCG	1114
1201	TGCTGGTTGTCTTGATTCCG	1182
1133	TGCTGGTTGTCTTGATTCCG	1114
1201	TGCTGGTTGTCTTGATTCCG	1182
711	GGCGACCTTGGTAGCAACGA	692
1477	GCATCGCTTGAATCGCATCT	1458
294	CCATAACATCGCGAATCATCA	274
134	CCATAACATCGCGAATCATCA	114
1454	CAAGTAGATGTGTTGGTTGTTGTAGTG	1428
322	TGCCGAGAAGTGTCAATTACCA	302
653	ATGTCGGTGATGTCCTTCTTG	633
874	TATCTCCATTGACGGCACGA	855
427	GGACATTCTCTTACCGCAA	408
325	GGTTGATGAACGACGACGAC	306
325	GGTTGATGAACGACGACGAC	306
865	GAAGATAGATGAGAAGCTGGATAGATC	839
336	CAACAGCAAGTACGGCAACA	317
478	CAAGCAGAGCACGGATAAGG	459

126	AATGTCCGACGAGACAGCAA	107
581	AGTCTCTATGAATAATTCCAGCAGAGT	555
581	AGTCTCTATGAATAATTCCAGCAGAGT	555
602	AGTCTCTATGAATAATTCCAGCAGAGT	576
575	AGTCTCTATGAATAATTCCAGCAGAGT	549
119	AGAAGATGTCGTTGTAGTAGTGCTGA	94
314	TCATCAGAACTATCATCACTATCACCAT	287
503	ATGACTGGAGACTTCTACAACGG	481
112	TGTGTGCCACCAGATTGCTA	93
154	GACCGTTCGAGATTACTTCACG	133
120	GAGGAGTCTCAGGACGCCAA	101
199	CGGTCGGATTGATTGACTGC	180
326	GTTGATGGTGATGGTGGTGTT	306
326	GTTGATGGTGATGGTGGTGTT	306
734	GCGGAATACTGTGGAGAGGTC	714
1372	GGACAGTCTTCTCCGATGTGC	1352
166	CCACTTCTAACAGCCATCCACT	145
766	TTGTGTGGAGCACTGTATTAACG	744
725	TTGTGTGGAGCACTGTATTAACG	703
180	CTGTTCTCATATCCATCGTAGGC	158
296	AGAGATAGTTGGACTCTGGTGGAT	273
123	TGATGTCATTGTTCTTGTCTCCA	101
137	GGCCATACGATGATGTCCAT	118
1052	GCTTCACCTAGACAATAAGAACCAA	1028
713	GCTTCACCTAGACAATAAGAACCAA	689
184	TGGTGTCGTGGCATAATAAGTATC	161
132	ATGAAGATGTGAACTTGGTGGAA	110
266	TGACCACGGAATTACACGGA	247
104	CGACAATCCAGAACGATGACG	84
1026	AGAACGAGGAGCCGAGGAAG	1007
1080	AGAACGAGGAGCCGAGGAAG	1061
119	GCTGATCCGATAATTCCGAA	100
153	TTCCGAAGAATGTTCTGTTGC	134
132	CATCTCTACCGTATTCCACATC	110
133	TGAATACTCTCATGGCACAGTCTG	110
394	GTTGCAGGTACAACAGGACAAG	373
87	GCCAGAAGACCAATGATAAGAACA	64
196	GGCCTGCTATCATATCTGCATT	175
575	AGAGCCGATTGTTGCAGGTT	556
173	GGATCGTCACATGAATGGCT	154
118	GCAAGAGGATGCAAGTTCTCA	98
529	GCTCTCGTTCCTTCTCTTCGT	509
625	GAACTGCTATTACGGCGGTAGA	604
267	GGATTATTGCGATTAACACACAGG	244

126	GAGGTCAGCAAGAGCCGAAC	107
243	TGTTGAGCCGATGATACCAGT	223
243	TGTTGAGCCGATGATACCAGT	223
243	TGTTGAGCCGATGATACCAGT	223
203	GATTCCGCATAGTCCGAAGC	184
805	CGGAAGAAGTGACAGCAGGA	786
805	CGGAAGAAGTGACAGCAGGA	786
805	CGGAAGAAGTGACAGCAGGA	786
614	GTGTATCCTCCGTTGGCATT	595
549	GTGTATCCTCCGTTGGCATT	530
395	GTGTATCCTCCGTTGGCATT	376
538	GTGTATCCTCCGTTGGCATT	519
535	GTGTATCCTCCGTTGGCATT	516
123	TCCGCCTTGAGTAACTGCCA	104
123	TCCGCCTTGAGTAACTGCCA	104
230	AACAGGTTGCGACCGACTGG	211
340	GAGACGAATGACGCATACTGACTT	317
268	TGTTGCGTTGAGTCTTGAGG	249
122	CCATAAGCTCCTTCTCCTATACTCTC	97
3073	GATTCATTGCCACTGCCACA	3054
545	TTCGTGAATCTCCAAGCCAT	526
505	TGCTACAACTGAAGGATGGACA	484
491	TCTAACTTCCGATATTCGTCTTCA	468
175	GAAGAGGAGATGTGGCGGTA	156
969	CACAGTCTTCACCGCCGATG	950
437	TCATCAGTGATCCACTTGGCT	417
784	CGATTGGTGTGACAGTTGGC	765
439	GACATCTGAATCCAACCTATCCA	416
983	CATTAGTGTAGCGACTGCTGAGC	961
201	GAGCTGAGCTGGTCCATCGG	182
438	GAGCTGAGCTGGTCCATCGG	419
308	GAGCTGAGCTGGTCCATCGG	289
448	GAGCTGAGCTGGTCCATCGG	429
291	AGATAGAAGACGGACTTGAGCATC	268
632	CGTTCTTGTATGTCGCTGCCA	612
567	CGTTCTTGTATGTCGCTGCCA	547
497	ACATCAGCAGCCACACTTCC	478
218	TTCTTGCTGCCATCTCCATT	199
2341	TCGTCTGGTGGTATCTCGGA	2322
143	TGTTATCAGCAACCGAGAATACG	121
140	CTCGGAAGTTGTAATTGAATGAAGG	116
144	CGGTGATAATTGAGAAGATTAACAAG	119
154	TTCATCCTCGTCCTTCTGATTC	133
357	GATGGACGACAATGGAGTTGG	337

464	ATGGACGACAATGGAGTTGG	445
141	TTGTGGAGCATGAAGATGGTT	121
586	TCTTGTTGCCACGTATTCTGTT	565
341	TTATGTAGATCAGCTTCCATGAACTC	316
83	CACACAATTCCATATGCACCTT	62
586	TCTTGTTGCCACGTATTCTGTT	565
638	CCACAAGCCATGAGACAGACA	618
998	CATCGTCCACCGTAATCGTC	979
973	CATCGTCCACCGTAATCGTC	954
550	CATCGTCCACCGTAATCGTC	531
223	TGATGAGCACTGTATCTCCGATG	201
1331	CCAGCCTCAGCATTGTACTTCT	1310
131	GCACTTGACGATCAGCCATT	112
110	GCACTTGACGATCAGCCATT	91
95	GCACTTGACGATCAGCCATT	76
131	GCACTTGACGATCAGCCATT	112
110	GCACTTGACGATCAGCCATT	91
2825	TCCAGATACGGCGACACAGA	2806
570	AATGAGGCTGGAAGGCTGTC	551
115	GATCGTCTTCTTCTAGGTTCTCAAGT	90
159	CCACTCGATACGGAGCACAT	140
630	TGTTGAGCGTGGAATGTGTC	611
587	CAACTTGAATACATCCAGAATCCA	564
587	CAACTTGAATACATCCAGAATCCA	564
587	CAACTTGAATACATCCAGAATCCA	564
1306	CAGCGACAGCAACCAGACAG	1287
1464	CAGCGACAGCAACCAGACAG	1445
1360	CAGCGACAGCAACCAGACAG	1341
1518	CAGCGACAGCAACCAGACAG	1499
1575	CATTGAGGTTGATGAACGGCTA	1554
1302	ACCTCGTCGTTGAAGTGATACC	1281
949	AACTGACAGAATCATCATATCACGAT	924
992	AACTGACAGAATCATCATATCACGAT	967
3064	GGACCAGTATTGAGCCGTTCT	3044
210	CGGAGCACAGACACAACGAT	191
649	CGGAGCACAGACACAACGAT	630
2321	TCTGGTTATCAGTGGTGAGTGC	2300
210	CGGAGCACAGACACAACGAT	191
649	CGGAGCACAGACACAACGAT	630
552	GTTAGATGCGTCGTGTTGGC	533
354	AACCTTCTTGTCATAAATTCTCTG	331
230	CATTGGTTGGCTTCTGAGGT	211
728	GGTGGTGCTCCTCTTCTCCTC	707
734	GGTGGTGCTCCTCTTCTCCTC	713

927	TCGGTTATCCTTCTCTCATTG	905
129	CTTCGCATGCCTGTTCCGTT	110
139	CCGCTTCATGGTGCATTACAC	119
297	TTCGCATTCCATCTCGTCGT	278
435	GCGATTATGATGATCCAGTAGAATG	411
425	TTCGCATTCCATCTCGTCGT	406
297	TTCGCATTCCATCTCGTCGT	278
951	GAATCATCGCAGAAGGCAA	932
626	CCAGATGCTTCGTCGTCCAC	607
647	GCTTCGTCGTCCACAGTCAC	628
935	TGGAGAGTGGAAGGATTGGAA	915
677	CGGTGAGCTGTGAAGGAGGT	658
674	CGGTGAGCTGTGAAGGAGGT	655
959	CGAAGTATGAACACATGTACCATCTTC	933
1444	TTAGACACGAATGTTGTTGGCT	1423
1444	TTAGACACGAATGTTGTTGGCT	1423
848	GAGCACCTCCTCTGGTAAGAAGC	826
824	GAGCACCTCCTCTGGTAAGAAGC	802
1338	GAGCACCTCCTCTGGTAAGAAGC	1316
1105	TGGCTTATCCTTCTCCTCTGG	1085
110	TGAATATTGAAGTTGGTGATCGTC	87
267	GCAATCACAATAATGGCAAGG	247
331	GAGATCTCGCAAGCTTCCAA	312
386	GGAAGTTCTCGATCACAAGCG	366
640	TTGTCTGGCGAAGGAATGGA	621
261	GGCTTCCTAAGAGAGCGAGAG	241
271	TTCATCCTACCTTCCATTCCAA	250
129	ACCTATGTGACTTACTGCACGGT	107
231	CCTCTCGTTCACCGTCATCA	212
137	CACCGAGCCTAACTGTCTATCAATC	113
283	CGGACAGGTAGACAATGATACAAGA	259
474	CAATGCTATTGTTCCACATACTAATACG	447
513	CAATGCTATTGTTCCACATACTAATACG	486
525	CCATCCATCCATTCTCTGTCCA	504
752	ATCCTCCGTTGAAGGCGAGA	733
239	CATATTCTGTCCATTATCGTGTGC	216
780	TTCGGTCTTACGGTGGCAAT	761
353	GCTTCCAACCTCTGATAGAGCATTC	330
130	AATCTGGCGAGCTTATGTGC	111
209	TGCCGGTAATTATGAACGCA	190
382	CGAAGTGCTTGTTCAAGTTGGT	362
151	CAGAGCCAGACCAAGAGAGATG	130
184	CAGAGCCAGACCAAGAGAGATG	163
717	GCTTGTAATTGCGAGTAGATTGTCA	692

151	CAGAGCCAGACCAAGAGAGATG	130
185	CGACACCGATCAGAGTACACC	165
424	ATGTTGGAATCGGTCCGACT	405
185	CGACACCGATCAGAGTACACC	165
550	AATGTCGTACATGACCATATAATCCTC	524
592	TGTCGTAGGCAACTAATGTGAATG	569
1032	GCTGGCGGAGGTGAAGAAGA	1013
906	GGAAGTTGTCACCGCCGAGT	887
329	CGGAACATGTACTGTGTACAGAGG	306
195	CCGAATGTCTGTACACCATGA	174
1556	GGTGTGAGGTCTGTGGAGGA	1537
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507	TGGCTCACATCCTGCTGGTT	488
330	GGCAGTGTTCTTCAGCTCAAG	310
351	CAACGACTGTCTTGAAGTCTTGGC	328
103	GGAGCGAGATGACAATAAGCA	83
644	GGCTACTGCCTGTCCGGTTA	625
1640	GATTACTGCGGTAGTGTGGTGA	1618
448	TCATCTTGTCAGCATCGGAA	429
598	GTCCGAATCCGACTTGAGTAGT	577
148	CCTGAGATGATGCGAACTGG	129
331	AGTGACAGTATGCTCTATTGCA	309
207	AGTGACAGTATGCTCTATTGCA	185
622	GCCTGCCGCTACATACACAT	603
98	ACTACCTCACCGGATCCACAG	78
428	ATCACCGAATACAGTTCTTGCGA	406
244	ATCACCGAATACAGTTCTTGCGA	222
136	TGCCTGATACCATGGAGGAC	117
136	TCACAAGACAGATCAATATGGTGGA	112
119	GTGTTGTGGTGGAGGATGAAGG	98
330	TGCCTCCTCATTGTACGCA	311
369	CGCTGCTGTGAGACCGACTT	350
142	GGTAAGCTTATTGCAATTGTAACATTG	116
2186	GCGATCTTGACGTTCTTCTC	2166
193	AATCTTGTTGCTTATAGAGCGGTGAA	168
517	ATCGTGTTGCATGGTCAGGT	498
696	ATCGTGTTGCATGGTCAGGT	677
696	ATCGTGTTGCATGGTCAGGT	677
393	ACCATCCACACCAGGCAACA	374
393	ACCATCCACACCAGGCAACA	374
787	CAGCACCTTCACGTTCTTCTC	767
412	ACGTGCATCTACGTGTCCAA	393
223	GTGTTGTTCTCAGTATCTTGGC	201
223	GTGTTGTTCTCAGTATCTTGGC	201

372	GAAGGTAGCGGCGGACAATG	353
509	TTACGACCAGTTGGACACAGG	489
244	CACCTTCACTTCCTTCTCCAT	223
226	CGAGATGGCTGGATTGTAGG	207
571	CATCTCACTGTCCACTTCTCG	550
2237	TCCAAGAAGAGAATCCATTAGAAGA	2213
2246	TCCAAGAAGAGAATCCATTAGAAGA	2222
1881	GCGAACTCATCAACAGCAGA	1862
466	GCCTTCAATATCATTATCCTCAA	443
832	TCAAGTCTGTATCGTCTTCTCGTAA	808
862	TTGAAGGTGCTCCGTGTGAA	843
734	TTGAAGGTGCTCCGTGTGAA	715
738	TTGAAGGTGCTCCGTGTGAA	719
681	AATCTGTTGAGTCTTCTGTAGTCTCAGA	654
132	GGTCGATTGTCGATGAAGGC	113
127	CGTTCTATGTCATCGACTCTCTTCA	103
639	TTGAGCAGATTGTGGCGTTA	620
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513	TCTCTGTGGAAGTGAATGAACTGT	490
513	TCTCTGTGGAAGTGAATGAACTGT	490
475	TCTCTGTGGAAGTGAATGAACTGT	452
398	TCTCTGTGGAAGTGAATGAACTGT	375
406	TCTCCAATAGCGTCAACGACAC	385
1099	GCGATGGAGTATTGATGATTGG	1078
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1141	GCGATGGAGTATTGATGATTGG	1120
1151	GCGATGGAGTATTGATGATTGG	1130
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1014	GGCAGGAAGTCGATTGAATG	995
146	AGTGGTCCGAGTGGTGCTT	127
256	CTCTCGTGAAGAAGTTCATAATGC	233
415	CTCTCGTGAAGAAGTTCATAATGC	392
1332	TTCAACTACGCTGGCCGATT	1313
421	TGGAGATGGCGGTAAGGTCA	402
151	TGAGGATGTCAGTTGAAGTAATCG	128
1281	TGATGGAGGAACGAGTGGTG	1262
207	GAGCCACGAATAATCACCGA	188
347	ATCATCACAACGCGCAACC	328
437	GAGACTTGACGATGATGATTGACG	414
242	TGGAGGTGATACTGATGATTGTTG	219
146	CTCATCTTCTGAATCTGTGTCGTAA	122
906	GCTTCTGATGTGAGTGCCAAT	886
906	GCTTCTGATGTGAGTGCCAAT	886

282	CATGATAATACAGATTCCACCGAA	259
424	GAATAAGCATTACAGTTAGAAGCATCA	398
1197	GCAACGATACCAGCTTGAAGA	1177
545	GGAAGGTATCTTGCGTATTCATCA	522
194	AATTCGAGGAGTTGCGCCTT	175
547	CGACATAATTGATATCGTCGACTGTT	522
1838	TGAACAATATACGCAGAATAAGACAA	1813
655	GTGTCATCTTATCCATTCTTCATC	631
680	TTCCTTGGTGTCCATATTCCTT	659
693	GGTAATGGCTTGGATAATAATTCC	670
480	AGAATAGCCAAGGAATTCAGGAT	458
1026	AGAATAGCCAAGGAATTCAGGAT	1004
175	AAGAAGCCAACTGGTGTTCTG	156
80	CTAATAACCAATTGCCGAATGC	59
718	AGGATTCCGATTGAGATGCG	699
365	AGACCGAGTATGGATACCATCATAG	341
312	GATGTCTTGTCTCGACCAGATTG	290
204	CTTGCTATTGGCGGCACAAC	185
862	ATTGCTGTGCGTTGAGTTGA	843
946	ATTGCTGTGCGTTGAGTTGA	927
862	ATTGCTGTGCGTTGAGTTGA	843
946	ATTGCTGTGCGTTGAGTTGA	927
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862	ATTGCTGTGCGTTGAGTTGA	843
946	ATTGCTGTGCGTTGAGTTGA	927
166	TGAAGTGGTTCAGATCAGCCTT	145
584	TCAGAGGAGAGACATGGTAGGTG	562
1390	GAGGATTACGGTCACGGATG	1371
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217	CTTGACTTGGATGCCTGGTG	198
217	CTTGACTTGGATGCCTGGTG	198
217	CTTGACTTGGATGCCTGGTG	198
230	CTTGACTTGGATGCCTGGTG	211
914	GCAGAATGCGTGAATATAAGGAA	892
261	ATGCTCGTGAGCGATCCGTT	242
171	CCAACACCACACCACTGTCACTC	149
2863	GTTGAGCAGATGGAGAAGCGTT	2842
2872	GTTGAGCAGATGGAGAAGCGTT	2851
3187	GTTGAGCAGATGGAGAAGCGTT	3166
2719	GTTGAGCAGATGGAGAAGCGTT	2698
580	TTCCAAGCCAAGAAGCAGTG	561
448	CGGAATCATGTGATGTTGTCTG	428

563	CGGAATCATGTGATGTTGTCG	543
257	GCTTCTTCATCTGGCGTTTCG	238
669	TTGACTCAATGTATGTTCTCGTT	646
853	CTTGATTCACGAGTTGATCCATT	831
445	TGGAGAGGCGTTGTGAAGTC	426
110	CCGTCAAGTGTAAGTCCAGAGAA	88
493	GGTAGGACTGTTGGATAAGAGCA	471
389	CGGCTAGATGTCCAGGATGAGTT	367
362	GTTGAATTGTTGCGGCTCAC	343
561	CAGTTAGAGTAATTGATGAGCAGTCG	536
325	GGCTTCTGATATGCTTGGAGGT	304
228	CGTCTGAACAGCCACACACTT	208
291	AACGACACGAGCAGCACCAG	272
2644	GTGTAGGTGGTGGAGGCAGT	2625
359	CAGCATCATCCGACTTCTCC	340
1925	CGGTGATTGAATCGTAGAGACG	1904
494	CCACCAATGATTCTCCGAA	475
280	TGTCTGATGGATTCTTCTGTTGGC	257
540	AACACTGAGCATTGGATACGG	520
810	TTGGAACATCTCTTGGTCGTAGG	788
133	CGGCTCCAATGATGACTCCA	114
945	GTATCCAAGCCACCATCCAA	926
192	GATTGAGCAACGGAACGAAC	173
467	TGCTCCATAGGTTAGAAGACGGT	445
115	CGTTGTAGATGAGATCACAGTCTTG	91
382	GAAGTGATAGAAGAACTGTCCGAAG	358
270	CTCCTCTGTGGCTCCGACTG	251
270	CTCCTCTGTGGCTCCGACTG	251
358	GCTCTACCGCACAGTTCCAA	339
293	AGCTTAGAGAGATCCTGTTCCGT	271
270	GAATTGTCCACCATTGTTCTTGT	248
186	ACTTGAGATTGTCCGTTTCGC	167
171	TTGACGAGAGAATGGATGTGG	151
279	TTGACGAGAGAATGGATGTGG	259
755	TGCAATATGCTCTGGTCTTCC	735
453	GCGTGTCTTCTTCAGAAGCTCT	432
121	CATCAGTAGCCAGAAGCACAGC	100
171	AAGTCTGGCTACAAGTTCACATCC	148
663	TCTTGATCTCGTCGATTGTTCC	642
206	TCTCACCGCACAAACATGATC	187
175	TCTCACCGCACAAACATGATC	156
900	TTGAGACGAGTTGTTGGAGGA	880
979	TTGAGACGAGTTGTTGGAGGA	959
187	TCTGATTGAATTGCTCATTGAGTT	164

127	GTCAAGAACAGCGTCCGAGA	108
143	AATCACTCACCACAAGCAACCT	122
661	ATGAAGCCAGCGAGCCGTTA	642
166	ATGAAGCCAGCGAGCCGTTA	147
216	TGTGGAACATTGAGAGCAGGTG	195
901	TGGAGACTAATGAAGATTCTGTTGC	877
378	TGATAAGATAAGCAGTGTGAGCACCT	353
270	TGAATGTCTCTTCTTCTTCTTAAGG	244
227	TTGGTACGAGCAGCATACGG	208
639	TGATCACGGAACCATCTGGA	619
227	TTGGTACGAGCAGCATACGG	208
302	TTGGTACGAGCAGCATACGG	283
900	GAGCATTGTGAGCATGAACG	881
140	TCACTCATCTAATGTACCACGGAA	117
134	ATTACATCATCCAGGTAGCACACTG	110
124	GACAGTGCCTACGGAACCTGAA	103
816	GAAGGCGGAAGTCGTTGAGA	797
822	GAAGGCGGAAGTCGTTGAGA	803
493	GTTGGTGTGGTCTCAGCGAT	474
1246	AATCCTCATCGGCACCTTCG	1227
817	TCCAGTACATTGGCAGTCCTG	797
773	TCCAGTACATTGGCAGTCCTG	753
988	CCAACTGATCCGTGTCGTGA	969
1746	GGTGTGAGGATGTTCTTCGCA	1726
217	TGAGCGTTGAGAAGTTGATGC	197
215	TGAGCGTTGAGAAGTTGATGC	195
429	GGTGTGGTATTGATGGAGGACT	407
483	GGTGTGGTATTGATGGAGGACT	461
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483	GGTGTGGTATTGATGGAGGACT	461
2261	GCATGGCAGAAGTGGTCTCT	2242
532	TTCTTAACAGCGGCGACAAC	513
417	TTCTTAACAGCGGCGACAAC	398
1591	TGAGAGTACAAGATGGAAGTTGAATC	1566
150	CATTCCAACGCTGCTACTCC	130
1063	CACGAAGTAGAATAGAACGAACCAT	1039
103	CCGTCTGTGTTCTGCGATGA	84
133	TCACCGACCTTCTTGCACTCTC	112
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259	CGTCAATTCGATGAGAAGCG	240
1488	CATATCGTCGTCGGTCAACC	1469
1620	CGATGGAGCAACCGAATAGG	1601
1482	CGATGGAGCAACCGAATAGG	1463
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165 GCCTCCACCTCCGAAGAAGT	146
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411 TGACGATTCCAACGCCAAGA	392
496 TGACGATTCCAACGCCAAGA	477
153 GGAGGAGGTAGAACATCATTCATA	129
331 ATCCAGCACCTTCACCACAA	312
861 TCATCTTCTTGTCATCCTTCTCATCA	836
1314 ATTGGAATGTACGGAAGAGTTGG	1292
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735 TGATCCAAGTGGTGTCTAAGTG	713
772 TTCTACCAAGAATGAAGAATATGCA	748
127 ATTCGGATATGAATGGACTCCTC	105
633 GAGCGATAAGGAAGAACGAGAG	612
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132 TGGTGATGGTGGAGGTAGTGC	112
143 GCCTGAATCTAGAATTATCCAATGTC	118
381 CGCCTCTCCATTGTCTGTGA	362
445 CGCCTCTCCATTGTCTGTGA	426
84 ATTCGCAGTGCTCGTGAGTC	65
102 ATTCGCAGTGCTCGTGAGTC	83
159 ACCTCGAGCAGCTCCAGTGG	140
127 CTCCTGTTGCGTGTCCGATA	108
1015 TAACGAGCAGTGTCGCATCA	996
1472 GCGTCCTGGTTGATTGCTGT	1453
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399 CGGATAAGGAACAATAGGACACC	377
377 ACGTCAGCACTGTGTCTGGATA	356
140 GCGACGACCTTCTTGTCTCC	121
130 TCTTCTTCGTTCTCAAGCAA	110
154 CGGCTGACACCAACCAGGTA	135
164 ATCAGCGTGTCTCCGTTACC	145
137 CCGTCGCTCACTATCTCTATTCTG	114
131 TTGTTGTTGCTCTCGGCATC	112
259 GAATTGCACAACCTCGTATCATTG	236
255 TCACACATATCTACGCCACCA	235
860 AACCGTTGGAGAAGGCTGAT	841
867 AACCGTTGGAGAAGGCTGAT	848
681 AACCGTTGGAGAAGGCTGAT	662
124 CCATGAGACTGCGGAAGACT	105
1590 GAACGGAGCATACGGCAGGT	1571

1429	GAACGGAGCATACGGCAGGT	1410
617	TTACAGCGTCTTCGGTGGAG	598
617	TTACAGCGTCTTCGGTGGAG	598
629	TCTCTCTCCGAAGATGACTGAG	607
629	TCTCTCTCCGAAGATGACTGAG	607
605	CGTCCTTCTTGAGTCCGAAG	586
605	CGTCCTTCTTGAGTCCGAAG	586
106	CACGGTAGAAGCACTGTCCAC	86
106	CACGGTAGAAGCACTGTCCAC	86
739	TGCGGAGATTGGCTCTTGTC	720
759	TGCGGAGATTGGCTCTTGTC	740
637	TGCGGAGATTGGCTCTTGTC	618
657	TGCGGAGATTGGCTCTTGTC	638
286	TGAATCATTGACCATAAGAAGTTCA	262
151	AAGTGTGATCGACCTTGCGA	132
309	AAGCAAGGATGTCTGAGGAGTC	288
153	TTCTTCTGATTCTGTGTATTCCTT	129
122	GCATATAGACCATAACATCGCTTG	99
124	CTGCCAACAGTTACCGCCAA	105
173	TGTGGAGTCCGGTCTTAGCT	154
270	CGGTGGACCTGAGATGGTTG	251
1090	CATCTTCGTCTGATAACTCGCTT	1068
615	ACTTAGAACGGAGACAATCAGCA	593
403	CCTTGGCGTCGTTCTTACAC	384
140	CCTGAACGTTGAGTCTTGTTAGG	118
195	TCTGATAGATGATGTTGGACGAAC	172
588	CGTATCGTGATCGTTGGTGATG	567
195	CGTATCGTGATCGTTGGTGATG	174
1402	TTGGCGACTTCATCAGCATT	1383
1402	TTGGCGACTTCATCAGCATT	1383
1144	TTGGCGACTTCATCAGCATT	1125
1050	TTGGCGACTTCATCAGCATT	1031
235	CACCACCTTCACAGTTATCATCA	213
282	AAGTCGCTCCATTCGGCTTG	263
682	ATCAAGAAGTGACAGATGCCAA	661
670	AAGTCCAGTAGCCATCGGTAGA	649
670	AAGTCCAGTAGCCATCGGTAGA	649
614	AACGACGACGAACTCCAACA	595
434	CAGTTCTCGTCGTGTCCTTCA	414
272	TCGCTTCTCTCCAGGCAT	253
136	GCAGGTGGTATTGCTGACAAG	116
837	AGACGGCAGATAATGTGACCA	817
138	GCCTACTACTTCCACTTCTTCAACACA	112
421	CTGTTGCTCAGAATCTCTTCAA	399

304	CGCCGTCGATATAATATCCGTAT	282
140	TCAATACAATACCACCAATGTGC	118
140	AATGATGTGGATGGAGGTGTTAG	118
140	AATGATGTGGATGGAGGTGTTAG	118
189	CCATCATTAGAGAGCAAGGAGTG	167
310	TTGTAGTAGTCGCCTGATTGGTAA	287
500	TTGTAGTAGTCGCCTGATTGGTAA	477
331	TTGTAGTAGTCGCCTGATTGGTAA	308
521	TTGTAGTAGTCGCCTGATTGGTAA	498
371	GAGAGGAAGTATGAAGCACAGCA	349
590	TGCCAGATAATATCAATGAAGTTGTC	565
1074	TGAGATACTTCAGGACAGCCAA	1053
1197	TGAGATACTTCAGGACAGCCAA	1176
111	CGACTTCAACAAGATTGGTGTCA	89
721	GGTCTTGAAGGTCGGATGGAG	701
124	AAGTGGTGGCACCAGGCATT	105
2161	CCTATTGCGATCATTGAGCGA	2141
159	CTTGTTTCATCGTCATCATCGTC	138
1489	CGACTTCAACTCACGAGCCAA	1469
1030	TTCCGTGTCGTCCTCGTTGA	1011
3442	TTCCGTGTCGTCCTCGTTGA	3423
239	CGAGAATGACTTCTACTGGTTGTCG	215
163	ACTTCCAGGATACTCTTCAGATTGTAG	137
648	CGGTTGAGAAGTGATGAAGTTGG	626
322	CGGACAATAACACCAACCACA	302
165	CACCGATTCCACACCAGCAT	146
2968	TGGAACACAGATTGTTGAGTTGTAGT	2943
873	TTCACAGCAGCTAACGAGGAT	853
2282	CCTCCGACAACTCTGGCAAT	2263
411	ACTGTGTGTTTCGTGGTGGTG	392
348	ACTGTGTGTTTCGTGGTGGTG	329
1881	CTCATCTCGCAGGTGGCAAC	1862
1942	CTCATCTCGCAGGTGGCAAC	1923
616	TTCTCCATAAGCCTGTGTGA	596
1681	CGCTTCCAATCGGAGCAGAT	1662
150	TCTGATTGCTTGGAGTGATGG	130
197	TCTGATTGCTTGGAGTGATGG	177
444	AGGTGGCGTGTGAGCAGTATG	424
285	ACAAGTTGATCTCATGTTCTGATTG	261
132	TTCACACAATAACCACATCCATCT	109
1028	CGTATCCGATGGTTGTTGTTGG	1007
292	AATGAGATCGGCTGGACAATC	272
1424	TTGAGCATATCTGATCCAGAGTACA	1400
1433	TTGAGCATATCTGATCCAGAGTACA	1409

1550 TTGAGCATATCTGATCCAGAGTACA	1526
1576 TTGAGCATATCTGATCCAGAGTACA	1552
1685 TTGAGCATATCTGATCCAGAGTACA	1661
1617 TTGAGCATATCTGATCCAGAGTACA	1593
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1257 ATCGTCAGGAACACGCACAT	1238
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1177 ATCGTCAGGAACACGCACAT	1158
250 AGTTGGATAGGAAGCTCACGACT	228
488 CTTACACCCGCTGGTCTGCT	469
667 CGAGGACGATTGTGACAGAAG	647
547 AGACGTAATCATCCAATCCAGA	525
445 TCCAGACCAAGTGCCTACCAA	426
658 GTATACTGGTGTGGAGCAGGTT	636
657 GTATACTGGTGTGGAGCAGGTT	635
822 GTATACTGGTGTGGAGCAGGTT	800
1175 ACATTGGCATGAAGAGTGAGG	1155
1282 ACATTGGCATGAAGAGTGAGG	1262
432 GCGTAAGGAAGAACTGATAAGCA	410
698 CGATCCGCACACACTCCTGT	679
165 GTATTGTATGCTCATGTCCACACA	142
183 GAAGACGCAGACGTACTGATACAC	160
1350 TTGAACCATCCATTAGAAGCG	1330
146 CGGTACCTGTCGTTCTCACC	127
320 GCTCTTCGGCTCTTCGTTCT	301
4141 CCTGATTTCGGATGACTTGGC	4122
1821 GAATGTCGTTGATGAGGTAGAGC	1799
673 AAGTTGATGAGGCGGTCGAG	654
547 CGTCGTGAGCAAGAAGCATAGC	526
397 CAGGTGCTTCCAGTCGTGATG	377
459 CAGGTGCTTCCAGTCGTGATG	439
1504 GAGAATCAGATGGAGAATCAGAATC	1480
1504 GAGAATCAGATGGAGAATCAGAATC	1480
1436 GAGAATCAGATGGAGAATCAGAATC	1412
301 GATACACGAACGACTCTGTCTTCA	278
212 TGTGTTGAATAGAAGTTCACTGGAG	188
130 CCTTCAATTCAATGACAAGTGCT	108
477 CTTGAACCGCAATAGTGATGTC	456
479 CGCTAGGTGAAGTAACACGGAT	458
544 CGCTAGGTGAAGTAACACGGAT	523
624 TGGAACCTCCTCCACTATGG	605

775	CAATTGAAGCATTGATCGACTG	754
977	GCTTCCGTGCTCTCCAGTGC	958
727	TTCGTGTGGTTGCGTAGCTG	708
1201	TTCGTGTGGTTGCGTAGCTG	1182
347	GCACGCACACACACTCAC	328
149	CATGAGGCGATTACCTTGTGA	129
981	ACCACCACCAAGGACCATCA	962
3351	GAGATAGAGCCAGCCAGCAA	3332
1844	ACATCATTCCAATAATCATTCAAGTTG	1819
875	GCTTCTGCGACACCACATTG	856
878	CGAACGGAGTATAATTGTGACG	857
1065	CGTAAGAACAATACTAGCAGAGACGGT	1039
133	TGACGAGCACTGGTTACAAGG	113
630	TGTATTACAGTTGGTTGCCGTCT	608
1215	AACTTCCTCGCTCTTCTTGTC	1194
752	GACTGAAGCTCATGTGACTGTTGG	729
812	AAGAAGTTGATGTAATTCGCAGAA	789
666	CAGAGTCATCTTATCAGTCATTGGTG	641
666	CAGAGTCATCTTATCAGTCATTGGTG	641
669	GTGTCGTTGAGTGCTGCTTG	650
509	GATGGACGTTGTGTCGCATT	490
509	GATGGACGTTGTGTCGCATT	490
587	GAAGTATCTCAAGCAATCCTTCG	565
662	GCACTGCTGTATTCATCAATGTG	640
734	GCACTGCTGTATTCATCAATGTG	712
623	GCACTGCTGTATTCATCAATGTG	601
192	CACCGTTGATTGTTGTATTGATG	170
307	CCATAGTCAACAGCCGACACAA	286
1011	AGTGATACTTGCGATACCAGGAA	989
637	CGGTCCACTCGTGTTCAATG	618
270	GACGCTCCGATAGACACCTTC	250
2337	GGATGTGATATTCGGTGAACG	2317
213	TTGGCTGATGAATAACAATATCTGG	189
231	TTGGCTGATGAATAACAATATCTGG	207
152	TTGGCTGATGAATAACAATATCTGG	128
583	CGATTCTTCTTCATTCAAGCAAT	561
241	CTGTGGATGGAGTTGATGATGT	220
258	CTGTGGATGGAGTTGATGATGT	237
169	CTGTGGATGGAGTTGATGATGT	148
523	TGAAGAATGAGACGCCAGGA	504
235	AGGTGTGATTGTAGAGTTCGTAGGT	211
790	CGATTGAACAGAGAGGATGCC	770
756	CGATTGAACAGAGAGGATGCC	736
131	AACCTGTCGATGGCGAGAACT	111

1076	GATTGAATATTGTGTACCAACTCC	1052
87	CATCGACTCAATTGTGGCAA	68
87	CATCGACTCAATTGTGGCAA	68
242	CGTTCGTTGTGATCGTGTTGT	222
1019	TCCTTAGAGCGAATCTCAGCA	999
1014	TCCTTAGAGCGAATCTCAGCA	994
171	CACATTCCGTGCGTTGTCTG	152
570	AGATGGATAGGTGGATTCTGGAT	548
212	CACATTCCGTGCGTTGTCTG	193
347	CACACTCCGATTGCTTGGTT	328
204	TCATGCATCAGCTTCGTGCA	185
349	TCTCATCCAATTCGCCATCT	330
162	GGCTCCATAATACACGCATAACTG	139
818	GCACTGTTGTTTCATATAATTACAGCA	793
971	ACGAAGTGAGCTGATCTGTCTG	951
173	GCCAAGATCTCGCTGACCAC	154
466	TGCAAGTTGGTTCTTGACGA	447
359	ACAACAAGTGAATCAAGCACAAC	336
421	GTCAAGAACACAGTCCACATCAGG	398
227	ATTCGTTGTCGCTGGAGCTC	208
746	TTGCCACGTCATCAGACCTT	727
250	CGGACTGTTGGTCACTAGAGC	230
530	GCCTCGTCGTATCCATCCACA	510
306	CAGTCAACATCTGCATAGTCTTCTG	282
303	CAGTCAACATCTGCATAGTCTTCTG	279
683	GGATCTTCTGAGCGTATGAATGC	661
697	GGATCTTCTGAGCGTATGAATGC	675
204	AGGATATGTTGAGAATGAGATGAGAA	179
683	GGATCTTCTGAGCGTATGAATGC	661
697	GGATCTTCTGAGCGTATGAATGC	675
473	CATCCAGTAGGCAAGTGTGTAGG	451
196	AACATTCGGAGGTTGTTGAGAA	175
452	TCAGTATGTCTGTACGCCGAGTAG	429
423	CGAATCATGTCCAGATAGTTCGTATG	398
851	GTCCACTCAACAAGATTCCGA	831
822	GTTATTGAATAGGCGGCCAA	803
219	ATTGATGACATCACGGAAGCCT	198
97	TGATGACATCACGGAAGCCT	78
151	TGCTACCACTTGTCTGTC	132
1438	CAAGTCGTTCTGCGTTCACAC	1418
1400	CAAGTCGTTCTGCGTTCACAC	1380
136	ATTCTTGGAGATTAATTATGAGACGTT	110
1483	CCTCGTGAGACTCGTAAGCATT	1462
1714	CCTCGTGAGACTCGTAAGCATT	1693

441	GATATGATTACAGCTTCAATGATTGC	416
411	CGAGGAGATTGGTCACGAGT	392
126	GTACAGTAATCCGCAGGTGGA	106
579	TTCAGCCTCCACCAATCCTT	560
207	TTCAGCCTCCACCAATCCTT	188
1822	TCAGCCATTTCGTAGGTAAGAGC	1801
1759	TCAGCCATTTCGTAGGTAAGAGC	1738
942	TCAGCCATTTCGTAGGTAAGAGC	921
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1235	ATTCATCGGATTGGCGTTGT	1216
997	GCCATCATAACCGAATCCAGAG	976
1558	GAGAGCAGTACGAGTTGACACATC	1535
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830	CGTTCATAGTTCGGCTCATCA	810
543	TTCGGATTTCGGAAGACCATT	524
1139	TGAGTTGAGGAATTAAGAGCCAAGA	1115
147	CGACGACAACCTCCAACCTCAA	127
2392	TCAGAAGAATAACACCAATAGCAATG	2367
331	CAGCCAGTCAACATTCATCGG	311
111	TGGACGATGAGCAAGAGTAGCA	90
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146	GCGGTCTGCTCACAATCCAA	127
263	GAGAACCTATCGTAATCCATCACCTG	238
518	GACCACTTCGGATTTCGCTTG	499
571	TGACTAGTGGTTCACGAGCCATT	549
468	TGACTAGTGGTTCACGAGCCATT	446
468	TGACTAGTGGTTCACGAGCCATT	446
447	GACACAACAAGTTATCGTCACAAGA	423
6617	GGTTCAGTTATTGTTGTAGTGTGGT	6592
125	GCAGTTGGCACACCAATTCC	106
131	GGCAGTCTCACAACTCTCACA	110
330	CACACAATGCAGCAGGAGGA	311
1233	TAACACTCGGAACGCAGGAC	1214
235	GCGATGATGGAATAAGCATGT	215
391	ATCCAACAATTCGCTTATTACACTT	367
465	CAAGTAAGGCAATGGAAGCAA	445
310	CCGACGATTGTGAGGATGAC	291
3667	GTTGGTTGCTGATGGTGACG	3648
2782	GTTGGTTGCTGATGGTGACG	2763
1077	AAGACGGCGAACAACGAGAA	1058
177	AGTGTCCATTTCAGATGTTGCTTC	155
210	TGGCTTGACAAGATGCTTCC	191

165	TGGCTTGACAAGATGCTTCC	146
1133	TTCAGGTGCCATCCAGTGTA	1114
298	CACACAATGCAGCAGGTGGA	279
174	GAGCTTCTGGCTCAACTCGTT	154
600	GCGTTAGGTCGGATGTTGTG	581
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296	GGTAGGCAGATCCGATGGCT	277
357	GGTAGGCAGATCCGATGGCT	338
242	CGAGTTCTACGCCATTATTATGC	220
1237	CATGTCAGATGTTGAATGTTAGCA	1214
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151	TGTCGCGTCAACATGCAACT	132
1100	GCGATTACTCTGTCTGTAGATAACTGG	1074
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857	CCTTCCATGTCGATTGTCAGA	837
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192	TACGGCTGATTGGAGATGGC	173
203	GGCTCTTCAAGTTGTCCAAGTATG	180
453	GTCCGAGAAGGTGCGTCATC	434
457	CGTATGATGGCGTCCGAGAA	438
364	CGTATGATGGCGTCCGAGAA	345
152	CCAAGGACCACACATCAACC	133
147	CATTGAGAATGCAGCAGTCG	128
174	TCCGAGCATTATTCCAAGAGA	154
992	GTGGACTCAGCATCTCATCTTG	971
429	CCTTCTAACATCTTCACCATCTTC	405
362	CCTTCTAACATCTTCACCATCTTC	338
631	ACTGCGACTACCGTTGTGCT	612
327	GATGCGTTCCAAGTAGTCAGC	307
127	TCTATTCTTGGAACATGTGGTTGA	104
127	AAGTAACAATCCACAATGCCAAT	105
553	TGGACGAAGTGTTGATTGTTGA	532
505	TGGACGAAGTGTTGATTGTTGA	484
165	TTGCTGGCGAGGTGAGATAG	146
3979	ATTGTGATGGTTGTTGTTGCC	3959
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15735	AACGAAGACGGAACGACTGC	15716
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358	ACCAGCAACTGACAGGAAGG	339
935	TTGTTCTCGTCTTCCATCTCTGC	913
172	TGTATAACATAGTTGGACGGTTCATC	147
179	TTCGCAATCATCTCGTCAGG	160
229	TGTCGTGCTTCAGTCGTGGA	210
510	TGTCGTGCTTCAGTCGTGGA	491
110	TTCGCAATCATCTCGTCAGG	91
267	TCATGCAGACGACGACACAT	248
455	TCATGCAGACGACGACACAT	436
758	TGGAATGTGACAATGAACCG	739
482	GCTCTGCTAACCGTGTCTTGA	462
281	TTGTACAGGTGGTGGAGACGT	261
1010	TCAAGGAACTGCTTCATTGTGTC	988
824	TCAAGGAACTGCTTCATTGTGTC	802
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236	ACCAGAGCCAGCTGATTGATG	216
236	ACCAGAGCCAGCTGATTGATG	216
236	ACCAGAGCCAGCTGATTGATG	216
347	ACCAGAGCCAGCTGATTGATG	327
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347	ACCAGAGCCAGCTGATTGATG	327
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749	CCATGTAACAACTGGATAGTGCTAA	725
795	CGCTAGCACAATAGCAAGCA	776
327	GGCAATAATGAACAAGAAGTAGCA	304
786	GATATCGTAATGCAACGTGGAGA	764
464	CAGCGACGAGTTGAATAGAGC	444
111	TTCGACTTCTGATGTTGTGCA	91
317	ATGGCCACAACAATCACGAA	298
3643	AAGATGATTGATTGGAGGTTGC	3622
788	AATGTGCCGTATGTGTTGTTGT	767
147	AATCTTCTCCACCAAGTCCTTCT	125
222	GTAATAGGATGTTCTTACCATCCAGAA	196
503	ACTCCAGATACTTGACAGCCTTG	481
470	GAAGCGTTGGTTGCCGAGTT	451
273	TTCGGCACCCTACAGACAACA	252
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171	GTCGGTCAGCAGATGGTGTT	152
421	GTCGGTCAGCAGATGGTGTT	402
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956 CATTCCGAGAGTTGAGACACG	936
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184 GTTCCAGGCATCATTAGCGA	165
178 CCAGGCATCATTAGCAACTCC	158
274 CGTTGTCTTCGGCTTCTCTC	255
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196 TGCACAATTCCACTCCGATC	177
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494 CCAGCCATTACCACATTCGT	475
526 CCAGCCATTACCACATTCGT	507
137 ACGACAGTGGTGGTGGTAGTG	117
232 TCTACACGTGTTACTGTCATAAGCAA	207
137 ACGACAGTGGTGGTGGTAGTG	117
1284 CGGAGTGTACTTCGGATATTAGTGC	1260
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620 TGTTGACTCATTCCGAAGAAGG	599
271 TGTTGAATATGATGGCGGCTT	251
256 GAACTGCGTAAGGTAAGCCATT	235
149 ACGGTATGGTCTCTCTATTCAACAG	125
361 GAACTGCGTAAGGTAAGCCATT	340
800 ACCTGGCTCACGATGGATTG	781
124 TTGTAGCCGGTGCTATACCTAGA	102
198 TTGCAGCAGCAGCAGTGACT	179
166 ACGAACGGAAGGAGGAGGAG	147
139 CCGATGACACTGGCTGGTAG	120

171	TGAGTCGAATGTTGTCTCGTTCT	149
331	TTAACAGCTTAGAACTGGATGACTTG	306
898	CGTGCATGGATTGTTGACTTGA	877
110	AAGAGAGCAGAGGTGAATGGAA	89
146	GAATTGTTCTTGTGACGCCTTC	125
165	GAATTGTTCTTGTGACGCCTTC	144
520	GCGGCAATACAACGAGCTGT	501
941	ATGAGGAGTGAACGGTGAGC	922
899	TTGAGCAGTTGAATGTCGCA	880
203	CCGTCCACCGATAGAAGATTG	183
1264	CGTCCTTGGTTCTCTGGTCTT	1244
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981	GCTGGACTTAGCACCTGTTG	961
796	CAACAGGTCCATACATCAGCAT	775
309	GGCAATACTGAACATGCGAAT	289
380	AATGAAGTGAGTGGCAAGCAT	360
399	TTGTGTGGTTCGCCAGACTG	380
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866	CTGGAGCTGTGTAGGATAGACCACT	842
559	CGTGGAAGTTGGTACAAGAAGC	538
714	CTGGAGCTGTGTAGGATAGACCACT	690
1234	TGAGAAGAGCCATTGTATTATGAGC	1210
184	GATGAATCCGTTGAAGGTGACTG	162
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233	AAGCAGGTTATATCCGTTCCATAC	210
115	GGATGATACGATGGTTGATGG	95
619	AACAATGTCTCCGCATCCTC	600
986	TGCTTCATTGGATTCTTGGAC	966
351	AAGCAGGAAGGCGAAGAGAA	332
189	CTCCATTATCATCAGTGTTCCAAG	166
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617	GATGCAGAAGATCGGATCACG	597
440	CGAGCAGCAGATGTAGAACGG	420
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127	TTCCTTGTGTTCCAGATGTGC	107
271	TTCTCCATTCCAACCTTATCAACT	247
1292	GCTCATTCGTTGACATTGGC	1273
186	CAATTCCAACCTTCATCCGCAT	166
278	CAGGAATCGTCATTATTACAAGGAA	254
237	ATGATGATGGCGACAGATGC	218

237	ATGATGATGGCGACAGATGC	218
302	ATGATGATGGCGACAGATGC	283
237	ATGATGATGGCGACAGATGC	218
237	ATGATGATGGCGACAGATGC	218
231	ACGCATACATCCAGGTCCAT	212
156	GCGGATAGGAACCAGGTCAT	137
128	TATGTCCGTCCGGTTCTAGATGAG	105
687	CGACGAGTATCTTGACAGGAG	666
619	GAGTTGCTCCGTCACCAATC	600
623	GCTTGAGCACCAGTGTCACCT	603
719	GCTTGAGCACCAGTGTCACCT	699
182	GCTTGAGCACCAGTGTCACCT	162
170	GCTTGAGCACCAGTGTCACCT	150
719	GCTTGAGCACCAGTGTCACCT	699
4919	GATGAGATGGCGATGGACTT	4900
787	CGAGAACGAATCCAACAACC	768
1441	CAATGAGGAAGGCGATGAGG	1422
1692	CAATGAGGAAGGCGATGAGG	1673
1887	TCAGATGGAAGGTCGGCGTA	1868
378	CGGCGTAGCTTCCAAGTGAT	359
451	GTATGTGTGAAGATCGGCGTAG	430
131	TTGTGCACGAAGATGGTGTG	112
1258	TGGTAGTTGGTTATGGTAGGATGC	1235
537	TTCGTCTTCGCTACTGTCTTCA	516
551	TTCGTCTTCGCTACTGTCTTCA	530
399	CCGTTGGATGAGGAGAGGAGA	379
236	CCGTTGGATGAGGAGAGGAGA	216
177	CCACTGCTCTTCTGCCGAGT	158
439	AGTCGTATCTCTTGTTATCATCTCCTC	413
213	GGTGAGCAGTGAGATGATGAGTG	191
136	TTGTCAATAACACCGCTGTCACA	114
127	GGCGGATTCTTGAAGTATGC	108
2072	GA CTCGCCGAATCCAGAATG	2053
130	CGTATCATTGTTGAATGGACCA	109
807	ACAACGTTACACCGGCTTC	788
1445	GTTGGCTGACCGTAAGACACA	1425
126	GCAGAAGACGCAGAAGGTGAG	106
237	GCAGAAGACGCAGAAGGTGAG	217
459	ATTCCAACAACCGTGCCATT	440
441	ATTCCAACAACCGTGCCATT	422
841	CACTCTTGCTGGTGATGGCT	822
247	CAGCTAATGTGTTCCAGTTGGTT	225
271	TGCCTTGACGGTTATGTTGA	252
122	TGTCGACCACATTGCTATGAGA	101

171	CTGCTGCTCTGCTCCTCCTT	152
147	GTAATGTTGCAAGACGATTCTCAA	124
508	AGTCATTGCACGAGTTGGAAC	488
272	TGCCTTGACGGTTATGTTGA	253
935	GGAGAATTGAACAGCAGAAGAGA	913
923	AATGCACTGTTGCTGGTATG	903
1014	AGTTCATCATATGCTCCGCCAT	993
1187	AGTTCATCATATGCTCCGCCAT	1166
1014	AGTTCATCATATGCTCCGCCAT	993
1187	AGTTCATCATATGCTCCGCCAT	1166
893	AGTTCATCATATGCTCCGCCAT	872
991	AGTTCATCATATGCTCCGCCAT	970
104	CATAGGATCAGAAGATCGAAGGTT	81
152	CATAGGATCAGAAGATCGAAGGTT	129
909	CTTCTACAGCAGCAGCAGCTT	889
909	CTTCTACAGCAGCAGCAGCTT	889
909	CTTCTACAGCAGCAGCAGCTT	889
133	CTTCATTGCTGCGTGAGTGG	114
288	GACGACGAGGTGATGGAGAG	269
1325	CGTGTTGAAGAAGTGAGTGAGC	1304
1421	CGTGTTGAAGAAGTGAGTGAGC	1400
1325	CGTGTTGAAGAAGTGAGTGAGC	1304
1421	CGTGTTGAAGAAGTGAGTGAGC	1400
506	ACTCCGAGTAATGGAATTATGAATG	482
305	TTATGACTTGCGCATTGCTG	286
343	CCGCATCACAATCACAGTCA	324
2901	AATGCGGAGAGAAGAAGGTACA	2880
2751	AATGCGGAGAGAAGAAGGTACA	2730
463	TGAAGTTGTGACCTCATCGTCTC	441
1012	TCCTCCTCCGATCAATCTACG	992
196	CCGAGTAGGATGTGGTTGCT	177
148	CTCGTTCCAGCACAGTCCAA	129
1015	TTGATCTTGGCATTCTTCTTGA	994
795	TTGATCTTGGCATTCTTCTTGA	774
929	TTGATCTTGGCATTCTTCTTGA	908
605	CGTCACTCCGTCCTCATTG	586
131	GGAGAGAGTAATGGATGAGAGATGTCG	105
130	TGGATGTACGTTGTTGCTT	110
344	GTTGCACTGGTTCGTCGTT	325
132	CTCGGTCACTCACTACAGTAGACAG	108
389	TGAAGTTGTTGCACGATAGGAG	368
706	CGAACATGTCATGTAGAGCGA	686
184	TCCGTGCCACATCTACAATCG	164
643	CGTCATGCTCATCTCTTCTCC	623

612	CGTCATGCTCATCTCTTCTCC	592
343	GCGTCTGGACTATTGAATGTGA	322
499	ATACTCCGTCATCACCTCCTGT	478
121	TGAAGCAGAGACGAGAAGCG	102
402	CCAGAAGAATGCAGAGTCAGC	382
463	GCAGAGAGTGGTGTCCGAGA	444
185	GATGGTCCAGGATCAGATGGTATG	162
934	CATCAGAGAATCTTGGATCGGTT	912
974	TTGGAGCAGGACATTCGTAAC	954
810	TTGGAGCAGGACATTCGTAAC	790
952	TTGGAGCAGGACATTCGTAAC	932
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889	TTGGAGCAGGACATTCGTAAC	869
889	TTGGAGCAGGACATTCGTAAC	869
889	TTGGAGCAGGACATTCGTAAC	869
889	TTGGAGCAGGACATTCGTAAC	869
125	CAAGATGTGGCTCCAAGTAGG	105
179	ATCCGTTGCTCTTCTCTGTCTCC	157
1981	GCACACACTCGCATTACAGAA	1961
126	AGGCCTGTGCATACACACAA	107
144	TTCATGGTCTGAGCCAAGCC	125
228	ACCATGAGAAGCACCTGTCC	209
314	GGAAGGCAACAAGCGTAAGC	295
1006	GATAGATACCACTTGCGGACCA	985
2772	AGTCCGATGAAGTTGAGCCA	2753
664	TGTACGTGGAAGCAACAGAAGT	643
475	TGTACGTGGAAGCAACAGAAGT	454
416	TGCGAGGAATTAGTGCGTTC	397
279	CCGACTATAAGGCGCTTCAC	260
245	ACTTGCCACCACCGTTCGTC	226
122	CGGAGACGACACACGAGACC	103
124	CGTGTCTCATTCTCATAGTCATCC	101
2901	GCAGTGAGTCCAACGCAGTG	2882
914	GCAGTGAGTCCAACGCAGTG	895
508	GCAGTGAGTCCAACGCAGTG	489

101	CCTGTCCTAGCTGCACCATT	82
1292	GCGTATGGAGTGGTGGAGTT	1273
1116	GCGTATGGAGTGGTGGAGTT	1097
1537	GCGTATGGAGTGGTGGAGTT	1518
1196	CGATTATATTGGATGAACGGACA	1174
991	TGATTCCTGGTCTGTCTGTGAG	970
1178	TCCTTCCACACAATGACACCT	1158
574	TGGTCGAAGTAGTGCATCA	553
630	GTACGAAGGTGTAGAGGTTGGAA	608
216	ACGACTGGACCGTACAAGACTT	195
1310	TCGGCATTAGACATGGTTCC	1291
1237	TCGGCATTAGACATGGTTCC	1218
1143	GGCTACTGCTTCGTCTGGATT	1123
836	ACTCCAGCAATCACATCCGT	817
630	ACTCCAGCAATCACATCCGT	611
808	GAGGTTGATGAAGTGGAGTTGATG	785
749	GAGGTTGATGAAGTGGAGTTGATG	726
808	GAGGTTGATGAAGTGGAGTTGATG	785
749	GAGGTTGATGAAGTGGAGTTGATG	726
150	CCAAGTTGTCAGAACACGTCAGC	128
1661	GTACCGTCGTCGTTCCAGTC	1642
1580	GCAGGAGCCGTTGGTGAAGT	1561
382	GGCATAGTTCCATCCGTACCA	362
1400	CATTGATGGAAGTTCTGATTCTGTC	1376
1303	CATTGATGGAAGTTCTGATTCTGTC	1279
424	TGTGAATGCCTTGGTTGGAA	405
493	GGTCTGTACACGTAGTCTGGATGG	470
341	TTGATGTGACGATACCTTCTCTGA	318
164	CCACTCCGCACACTAGAAGGT	144
257	GCAGATTCTTGGCACTCATACTC	235
312	TGAGACATTCATTGAGGCAGTG	291
1039	AGCGTTGCTTGACAGATTGG	1020
428	ATCGGCATAATGCACTGAGC	409
479	CAGTAACAGAGGTAGACTGAAGCGTAG	453
478	GGAAGGAGAGCAGAAGCAGGA	458
249	CGGTTGGTGGAGGATAGGAG	230
165	CTCTGAAGACGACACCTCACAA	144
473	GCGATACTCACAACACACGATT	452
883	AAGTTCTCCACCATTGCAA	864
1229	GCCTTCCACACATCATCTCG	1210
868	TGAAGGTATCCGAGAGCAAGA	848
1018	TACGCTTCCACGAGGTTGAG	999
82	AATTGAGCACATGGCAATGG	63
284	GGATGCTCTTCTGATGATAATAGGA	260

1682	TCTGAGCTTCAACTGCTTCAGC	1661
2248	TCTGAGCTTCAACTGCTTCAGC	2227
1509	TCTGAGCTTCAACTGCTTCAGC	1488
1626	TCTGAGCTTCAACTGCTTCAGC	1605
1564	TCTGAGCTTCAACTGCTTCAGC	1543
1530	TCTGAGCTTCAACTGCTTCAGC	1509
557	GAAGTCACACTATTCAACGACACAA	533
139	AACTCTAGCATGTACTATCTCGCTCTGT	112
219	AATACTCCATTTCGCATCGGTAT	198
430	GGCAATATGAGTCTGTGATATAGACG	405
181	CATCCATCAGCTCTGTCCAAG	161
200	GCTCTTGACTGGAATCGAACA	180
199	GCTCTTGACTGGAATCGAACA	179
1279	ATGGTGAGATACGGAGTCATCG	1258
252	CAGAGAGACGCAGAGATGGAG	232
845	GTGTTGACGGCACTAATAAGGTAA	822
396	TACAGCCATCGGAGCCACAA	377
819	GCATTGAGGATAGCCGATCTC	799
586	GCGTCAAGTGTGAAGCCTCT	567
666	GCGTCAAGTGTGAAGCCTCT	647
577	ACCTGATTCAACTTCCAGCCTAT	555
502	GTTGGTTCTTGCCATAACTGC	482
320	ATTCTTGAAGACCATCGCATTG	299
2976	CAGTACAGCACCGTAGACCACAA	2954
2980	CAGTACAGCACCGTAGACCACAA	2958
2977	CAGTACAGCACCGTAGACCACAA	2955
808	CAGTACAGCACCGTAGACCACAA	786
1237	CGTAGTGACCATCTTGAGAGGAT	1215
216	TTGGTAGGCAGGAATTCGAG	197
579	TGAGCCGGTGGAGTTGTAGA	560
308	ACCACGAGGCAACCTGATGT	289
527	GCAACGGCATAACTGTCCTC	508
373	ATTCCTCGGCACTTCGCTTC	354
107	TTCAATAAGGACGGATTCAAGGA	85
828	GTGGAGCTGTGGAGATCGGT	809
1668	CCAGCCGATCCGTATCCATT	1649
2311	CCAGCCGATCCGTATCCATT	2292
1581	CCAGCCGATCCGTATCCATT	1562
2281	CCAGCCGATCCGTATCCATT	2262
1668	CCAGCCGATCCGTATCCATT	1649
2311	CCAGCCGATCCGTATCCATT	2292
1581	CCAGCCGATCCGTATCCATT	1562
137	TGAACGCCTGAACACTGGTC	118
465	CGTCTCCATCCACATCAACTTC	444

123	TTCTTCAGGTGTCAGTTGCTTG	102
977	ACATCGGAATACGAAGTTGTCAT	955
379	TGCTTCTGCTTGAATTGCCA	360
833	AGCCAGGTAAC TTGTGTGAACG	812
835	GCCGCAATGTATGTAGCAAGC	815
525	GAGAACTTGAGAGCAGCAGCA	505
1105	CCGATAGCACAGACAAGAGCA	1085
279	GAGACGGAGAGTTGGAAGTGTT	258
656	AATCTTGTAGCATAGGTTGGAGGA	633
395	TAGCAGGATGAACGATGGTAGA	374
146	TTCAGGTCATCCTAATAATTCTCGGT	121
612	GGCTTCTTCTAGTTCAACGTTGA	590
970	CAACTATTATAGCGTAGAGAAGAGGCA	944
789	GCTCCTCCACATGGTCACAT	770
153	GCACTGAACACATTGGAGCA	134
359	TTCCGACTAGCAATGTTTCATGT	338
1593	CGAGTCCGTAGAGCCAGAGG	1574
1010	TCATCATCACTGCCATCCAA	991
1178	AATACGCAACTTCCATAATACTTCCAA	1152
1773	CCAACCGATTTCGTAAC TTCTTC	1752
553	CGGATCATAAGAGCAGCATAGTCG	530
240	TAACTTCGATCATCATTCGTCAA	218
119	AGCGAATCGATGAGATGTGG	100
2093	GCAGAAGTAGACGGTAGAGACGA	2071
331	TGAAGAAGACCGCTCCGAAT	312
387	ACTCCACTATCCGATTGAGAAGTC	364
211	CAGATATTGCGGCACCTGAT	192
238	CAGATATTGCGGCACCTGAT	219
122	GCAAGACAAGCACTATCGCAAT	101
323	TGAGTGGTGGAA TTGATGCTC	303
405	AACTGTGTTGGAGTACATTGGAAG	382
510	GGCACTCCAGGAATCTCAGG	491
522	GGCACTCCAGGAATCTCAGG	503
567	GGCACTCCAGGAATCTCAGG	548
676	GGCACTCCAGGAATCTCAGG	657
556	GGCACTCCAGGAATCTCAGG	537
150	CAATGTCATCTCGCCTCTCC	131
131	AGAATGGTGAATAATCTACAGGATTCC	105
481	TGGAGTGACGGAGGAGCATC	462
538	TGGAGTGACGGAGGAGCATC	519
1005	TGCCTCTTGTTGTTGAATCTTGT	983
121	TGAGAACAACCGAATGATGGA	101
451	CTTGGTGAATCTGTTGTTGAGTGTT	427
621	ACAACTGTAGTAGAAGTGCTCGACAA	595

1421	TTCTGAGCGGTGTGGTAGTGT	1401
1491	CATCCTCTCCAGTTCCTCACA	1471
1424	TGAGCGGTGTGGTAGTGTCC	1405
1198	TTCGATCAATGAATAATTGGTTGT	1175
725	GATGATTCAATGTCTTCAGATTCTTC	700
587	GGCTGCTCCTGGTCTCTTCG	568
306	GACTGGATAGATGAAGTCTAGGTCAA	281
182	CAATGGCCTCAAGAGTGTCC	163
120	GCGAGAGAAGCTCTTGGATCA	100
169	GCGAGAGAAGCTCTTGGATCA	149
616	CCAGACAGTTGTATGCGAATAGATG	592
1995	CGGCTCAATCAGTGGTCTTC	1976
378	TGCGGTAGTGAATAATGTGAATG	356
363	GGCGAGGATCTGAACACTCTC	343
784	CGGCGGAGACTGTCAGAAGC	765
1114	AAGCCTCTCGTAATAATATGGATTG	1090
1417	GTGGAATGAAGAACGATGAAGG	1396
273	GCACATCCTATTGACTTGGTGACTT	249
273	GCACATCCTATTGACTTGGTGACTT	249
418	TGACACGAACAATAAGGACACC	397
116	GGTTCCAAGGTAGATGAGTAGTGTC	92
551	TCTTGTCTCAGTTGTGGCAATG	530
272	CTGATCCAGAAGAACTTGGCTT	251
232	GCGGATGTTGAAGATGATGG	213
167	GGAGCATTGTTGTTGTGTGG	148
715	TGATTCCACAGGAGGCAATG	696
560	CAGATTGATGTCCGAGTCG	541
396	ACTGATAGTGCCGTGCTTGAC	376
476	GGCTCAGAAGTGGTGCTGTT	457
306	GGAGACAGAGCAAGGATTATTAGTTG	281
316	TGCCGATCATTGTCCAGAAG	297
805	CCATTACTACATCGGAGAGGAGA	783
805	CCATTACTACATCGGAGAGGAGA	783
516	TTCGTTGTAGATGGTAGCAGCA	495
531	TTCGTTGTAGATGGTAGCAGCA	510
198	ATTCAACCACGACGGCACCT	179
377	CGGAGTGATTGGTGAGTAGCC	357
465	GAAGCAGAGACAACACAACGG	445
1076	CAGTGATCTGAAGGCACCGA	1057
1925	GGTATTCGGTCATTGCTTCG	1906
2814	CGAATGATCTCCGATGATGG	2795
2904	CGAATGATCTCCGATGATGG	2885
478	CGAGATCATCCATCATCAGCT	458
189	GTCGGAGGCAAGATGGCATA	170

3789	TGTGGAGTGGATGGTGAGGT	3770
169	TTGTTGCTTGATGTCCTTCCA	149
134	AATTAGAATCGGAGGATCTGACAA	111
141	ACTCTCGAAGCACGGATGGC	122
164	GAGTGAAGAATTGAACGTCAAGTCC	140
1823	TCATGAACTTCTTGAGATCTTCCAA	1799
121	TGAGCCTACGGTTGTCTTCTG	101
891	TCTAGTCGGCATGAATCCTGAC	870
894	TCTAGTCGGCATGAATCCTGAC	873
1250	CATCATCCGTCCAACCAACT	1231
1250	CATCATCCGTCCAACCAACT	1231
307	TTGGATGGCTTGATGTGCTC	288
543	TTGGATGGCTTGATGTGCTC	524
1830	TTCTTGATGGCTCCTATTACTGTAGA	1805
313	AACCTTGCTGAGTATCCGA	293
790	GAGGAGGCGGATTAGAGGCA	771
518	TTGTTGTTGATCCTTATGGACT	496
1179	GGTGATGCTTCGGAGAGTGA	1160
1179	GGTGATGCTTCGGAGAGTGA	1160
1179	GGTGATGCTTCGGAGAGTGA	1160
106	TAAGTGGTGGTGGTGTGCT	87
5336	TCATTGAGTGAGTTGACGAGGA	5315
5288	TCATTGAGTGAGTTGACGAGGA	5267
246	TGGATGGCTGTGAGGATTGAGA	225
388	CCAAGTGGATAACACCTGCAT	368
192	GGTTCTTGATGAAGTTCGTCCTG	170
264	TGTGTGTGTGTGTGTGTGTGTCAGTT	242
1349	CGCCGTATTCACTCTTCTCG	1330
1387	CGCCGTATTCACTCTTCTCG	1368
1498	AACAGATTCGGAACCTCGCT	1479
1419	TGATGTTCCGATTCTTCCG	1400
344	TACTTGTCAGAAGAACTTGCGAT	321
1406	CGTCCAAGTCTACCAATCCTGT	1385
528	GTGGTGCTGGCTGGACACTT	509
758	AACGCACTGAGAAGAGCACAT	738
1025	AACGCACTGAGAAGAGCACAT	1005
295	TGTTAGAGGTGTCGTAGCGGTA	274
292	GAGGAAGCAGTGGTGGTTGG	273
814	AGACTAAGTCATCAGACGGTGAGTT	790
199	CGGAGGTACTGCATACTTGGC	179
215	CCATTGTCGTAGTTGTGTCAGAG	193
227	CGTCGGTTCAGTGTTCAAGTT	207
1397	AATTGAACGGAGCATGTGACA	1377
991	CTGACGCATTGTGGATTGAG	972

344	CGGTTCAAGTGTGATTACGGTGA	323
320	TCTTCGGAATTGTCACTGCTT	300
690	AGGAATGACGGCAGCGTTGT	671
431	GGCAAGACAGAAGTCGATTGG	411
231	CTGTTGAACGTACCGGATGC	212
486	CAGCAGTAGACACGAGAAGCCT	465
348	GCGGACTATTCGGTATTGCTC	328
326	TCCACGACATACTGATGGTACGA	304
127	CATGCACAATCTGTAGAGGATGG	105
121	CGTCTTCACCGCTCCAGTTG	102
316	GAGCGAGTTGAGCAGAGAGC	297
344	GAGCGAGTTGAGCAGAGAGC	325
316	GAGCGAGTTGAGCAGAGAGC	297
344	GAGCGAGTTGAGCAGAGAGC	325
125	TCGCATTCTAACTCTGTTACG	104
189	TCCAAGTGTGATGTGTATGATG	167
129	TTCAATTGAATTCAGGATTACGAA	106
130	GTGAGGTAGTTGTTACCTACCTGAGA	105
136	CGATTGATGTGTGTGTCGTCA	116
137	CAATATCAGAGAGCAGCCTCAGTG	114
161	AACTAGGTTAGAGAGTACGGAGATTTCG	135
723	ACGACGGATGACGGAACAGT	704
175	GAGAGATTGAGTGAGGTAGAGGCA	152
731	GCATTAGATGGTCTACCTGGAGTT	708
659	GCATTAGATGGTCTACCTGGAGTT	636
248	TGCGATCAAGTTGACTGGAA	229
248	TGCGATCAAGTTGACTGGAA	229
328	TCCTTGCGAATGTCAACAGC	309
328	TCCTTGCGAATGTCAACAGC	309
143	TGAAGAATCGAAGCATCCTTG	123
182	CACGGCTACATACGCATCCAA	162
128	AGTGACATGACCAGTCGCA	109
154	GCCTATCCGACACCGGACAA	135
252	GTACGGCTTGGTGCCAGTTC	233
247	GTACGGCTTGGTGCCAGTTC	228
104	TTCAGACGGAGCATAATCGG	85
165	TTCAGACGGAGCATAATCGG	146
3503	TCCTCAACAGCCAGCACAACCT	3483
104	TTCAGACGGAGCATAATCGG	85
165	TTCAGACGGAGCATAATCGG	146
2589	TTCAGACGGAGCATAATCGG	2570
845	CATCCGACAGGAATCATTGC	826
618	ATTCCACGCCTGTTGTTGAG	599
128	CCACTCATCTTCTCCTCTATGTGA	105

1045	CCAGTTACGATCATCACCAGTTGT	1022
181	CAATGATTCGTGGCACTCTACTC	159
1409	GAGACGATACCTTCACTGCTGTT	1387
1534	GAGACGATACCTTCACTGCTGTT	1512
522	GCAGTATATCTGAGAGTCCGCAA	500
402	GCAGTATATCTGAGAGTCCGCAA	380
639	GCAGTATATCTGAGAGTCCGCAA	617
983	TCCGTTCTGCTTCCTGACAA	964
820	TAGTTCCTGCGGCTCCTGGT	801
330	CGATAAGTCCATCGGTTGAATG	309
747	TTCTGTGCTCCAGTGAAGAGAGG	725
240	AAGTCATGCTTGATGGCTGTC	220
230	AAGTCATGCTTGATGGCTGTC	210
193	ACTCGGCATTGATCCATCCA	174
1392	ACCGACATCAACATCAACCTG	1372
137	CCAACAGGCATTGAACCATT	118
1067	AACCGCAACCTCCAACAAGT	1048
125	CGGCTAGTATTGGACGACCA	106
134	CGTCGTATTCTCCAAGTCTTCCTC	111
248	GGCAATTCGCATAATACATTCT	226
1175	TTGTATCACTTCCACTTCCACGA	1153
143	GCCATCACGACCATAGCATT	124
143	GCCATCACGACCATAGCATT	124
143	GCCATCACGACCATAGCATT	124
127	TTGGATCATCTATGTGAACGTCTTAG	100
217	CAAGAGTATGTGTACCGTGTGAACA	193
232	CATCTCATATATTGACACCATACGATC	206
669	GCACACAGCAAGACTAATCGG	649
642	AATGGCGAATCATTGCAGAA	623
158	CCATGATGATAAGGATTGCCA	138
209	GGAATCCACTGTGAAGCTGTG	189
209	GGAATCCACTGTGAAGCTGTG	189
1047	CAGATGAGTCGGTGGAGATGTC	1026
478	CACCAAGGATGAATCGGAAG	459
277	TCTTCATAGCAGTGTCCAGTCG	256
1318	CTTCTCGTGTCGCAATGTGA	1299
232	TCATTCTGTCGTTGTGTGCCT	212
176	GATATCAATGCTGGTACACGATCT	153
1071	TGTGTACATGTCATCAGGTTCTTG	1048
133	CGAACAGTGATTAATCTATTACGAATGC	106
591	TGATATGAACCAGAGAGTATAGCAGCA	565
1542	ATTGATTGGACGCATTGGAA	1523
1542	ATTGATTGGACGCATTGGAA	1523
1100	GACAACAGCGTCACAATCCAT	1080

639	GACAACAGCGTCACAATCCAT	619
1053	GACAACAGCGTCACAATCCAT	1033
174	CGCATCATATCCGGACAAC	155
285	GCGGTTACACAGAGGACCATCA	264
915	GTTGGCTGATTGTGGTTGGA	896
186	ACTCTCACCAGCAAGGCACT	167
260	GCATTGAGGCAATGGTTCCA	241
742	TAAGAGCTTGAGCCGATTGC	723
150	CATATTATAGAGCATTCTCGTGTCTCC	124
143	ATGGAGCAGGAGATGATGGA	124
2259	CAATTAGAAGAATCGCAGGAATG	2237
2259	CAATTAGAAGAATCGCAGGAATG	2237
171	AGTGAGAATAAGTGGACCAATGC	149
505	ATTCTACTATTGCCATTACATCGGT	481
906	CATTCCTCCATCGTCGTCAT	887
851	CATTCCTCCATCGTCGTCAT	832
873	TTGAGGTAGTTGCGGTGCTT	854
177	TCCTTCAATAACTGCCTGGTCAT	155
117	TCCTTCAATAACTGCCTGGTCAT	95
130	TCCTTCAATAACTGCCTGGTCAT	108
496	TGATGTAGGAACGAGATGATGTAGTG	471
182	GCACTCGCTAGGTAGATCGC	163
176	GCACTCGCTAGGTAGATCGC	157
263	CAGTTGGAGTTGGTGGAAAGC	244
251	CTATCAATAGGAACAGTCTCTTGCC	227
362	GGTTGCCATCTCTTCTCTACACT	339
723	GGTGTCCGTATTGAGAGTCTTGT	701
634	GGTGTCCGTATTGAGAGTCTTGT	612
226	CTCCACGACCACGGCTACTG	207
171	CTCCACGACCACGGCTACTG	152
170	CGGTCACAACGGCTACTAATCC	149
180	CGGTCACAACGGCTACTAATCC	159
303	CACCATTCCAGTTCGTCCAC	284
303	CACCATTCCAGTTCGTCCAC	284
369	TCCAAGTGACAGAGCCGATT	350
338	TCCAAGTGACAGAGCCGATT	319
117	AGCCGTCAGATTGGTAGAGTTG	96
163	CGACACGGCTAACCACTTGA	144
220	CGACACGGCTAACCACTTGA	201
146	GGAGTTGTGTGTTCTCCTAGCA	124
1030	GGAGCATTGCTGTGAAGAGTG	1010
749	TCTTGTTCTCCATTGTCAGGCT	728
128	TGTATATCCTCACCTGCCTTGC	107
124	CCGCCGATTACTAGAGTCACTG	103

204	GTTCGCATTGTCGCATCCTT	185
239	GTTCGCATTGTCGCATCCTT	220
1756	CGATGAGCCAAGATAAGCGT	1737
427	GGCTGGCTGAAGTCCAATCC	408
681	GCTATTCACCAACCGACACCTG	661
618	GCGGAAGAGTCGAACTATTACG	597
1430	CATTGGAGGTTACAGGCAT	1411
1444	CATTGGAGGTTACAGGCAT	1425
746	TGGTGAGCATGGATACATCG	727
1041	TGGTGAGCATGGATACATCG	1022
762	TGGTGAGCATGGATACATCG	743
750	GATGGTTGTCCTTGGTCATTGG	729
281	GGCATCAATCCGAGTGAGTT	262
496	TCATTGACTCTGGTATGTAGTTCTGC	471
194	GCAACGTA CTCCATAAGTTCGG	173
125	TCAAGTGCTCCGTCGTCGTT	106
125	TCAAGTGCTCCGTCGTCGTT	106
176	TCAAGTGCTCCGTCGTCGTT	157
607	TTGAAGGTACAGGACGAGGAGAAG	584
601	GACCACCGACATCCACCATT	582
1099	GACCACCGACATCCACCATT	1080
1634	CCAGCAGACTGTCAACTTCCTTCA	1611
1664	CCAGCAGACTGTCAACTTCCTTCA	1641
1748	CCAGCAGACTGTCAACTTCCTTCA	1725
560	CGTCCACTTCCACTGTCGCT	541
1566	GGAAGGCACGGCTCAACTCT	1547
1515	GGAAGGCACGGCTCAACTCT	1496
651	GGATCGGATGTTGAATGAATC	630
245	TTGATCGCAAGAGTGTGTGG	226
611	CGATACGAGTGATAGCAGCGA	591
611	CGATACGAGTGATAGCAGCGA	591
353	CCTTGAGTGATGTTGTTGCG	334
484	CTTCAGCATCATTGTCAAGACCAG	461
535	GAATCTTGCGAATGAATCTGGA	514
568	GAATCTTGCGAATGAATCTGGA	547
572	GAATCTTGCGAATGAATCTGGA	551
266	CGAATACAACCACAGCCTCAT	246
535	GAATCTTGCGAATGAATCTGGA	514
568	GAATCTTGCGAATGAATCTGGA	547
572	GAATCTTGCGAATGAATCTGGA	551
213	ATTGTTTCATAGTCGGCTTCATTG	191
207	ATTGTTTCATAGTCGGCTTCATTG	185
219	ATTGTTTCATAGTCGGCTTCATTG	197
399	GAAGCAATGAACGAGAACACCT	378

2261	TCGCTGGTGTCTTGGCATT	2242
1055	CGCTCAACGAACTTCATGTCTC	1034
124	TCCTCCATACCAGTTGTCAACTTC	101
201	TCCTCCATACCAGTTGTCAACTTC	178
571	GAATGCCTCTTGACGGAAGTTGT	549
1220	ATTACAGTACACTCTCCACAATCACC	1195
2778	TGCCTCTTCTGCTCTTCTCG	2759
2778	TGCCTCTTCTGCTCTTCTCG	2759
324	TCAAGATGCTTGCGAATGGC	305
138	CCAACCTACAGAAGATAGGCGAACA	115
1264	GCCAGAGAGACGAGTTGATGAGTTC	1240
1319	GCCAGAGAGACGAGTTGATGAGTTC	1295
151	TAGCTGCTGACAGCCGCATT	132
1563	TTCCTCTCGTGTGGTTCGG	1544
228	ATCACTCCAGCACCGATTCC	208
1296	AGCAATCCTCGTCTCAGCAA	1277
128	CGGTGGTAATTAGCCGAGATC	108
132	GCAAGTTGCTTCGCATCCTT	113
668	GCCATTGAACTACGCACCAG	649
297	TTGCTCGGCATGAGAGCTAC	278
1825	GAGCAGAGTCCAATAACATCCAA	1803
536	GACATGATGAAGACGGAATCG	516
512	GACATGATGAAGACGGAATCG	492
505	GCATCGAAGTGGTTGTGTCA	486
151	TTGGTGTGTTGACTTCGGA	132
207	TCACGCAGAGAACAGTCCATC	187
207	TCACGCAGAGAACAGTCCATC	187
278	TCACGCAGAGAACAGTCCATC	258
567	GCCGAGCACTCCGTAATACACA	546
626	AGCTGATTCTCCGTGTCCAC	607
555	TTCTGGAGCATCTGTGACTTCTG	533
765	TTCTCCTCAATCTATCCACCACAA	742
195	CTGAGATAGCCTGAAGTGTGAATG	171
137	ACCTTCCATCACTCGCTTCG	118
308	ACCTTCCATCACTCGCTTCG	289
137	ACCTTCCATCACTCGCTTCG	118
308	ACCTTCCATCACTCGCTTCG	289
1568	TCCGTGCTTATTGATACCGTTA	1547
145	TCCGTGCTTATTGATACCGTTA	124
184	CTACAGGCTTCTCCACATTCG	164
164	TCAGTCTGCGTCTGTGTTTCG	145
140	TCCTCCTCCTCCTCTGCTT	121
223	CGCATCTCTGACACACACATG	203
176	CAATTACTCTGTGGCTCCGAGA	155

89	GAACCAGCATCACCAGCACT	70
177	TTCAATCGACCATTACACTCTT	155
157	AGTGCAGGTTTCGCACCAAGA	138
432	TCCATTGAATCCATCTCGTCTT	411
93	CATTAGTGGAGGCAAGACATAAGC	70
97	GCCTGTTCTGACTCGTTGCT	78
591	CCAGTTCCTTGTATTGGATTCTTC	568
300	CGTCTTCGTCGCATGGTAAG	281
150	TCACACTTAGCGATGCACATTC	129
415	TGTCTTCAGCGTACGGAGAGT	395
693	GCTTCTTGTCGTCGTAGAGAGGTT	670
719	CCGAGTGTTGAGCCTTCTTG	700
892	GCCTTCTCGAATGTTGTAGTGG	871
763	TAGGCGAGAGAGTGTTGGTC	744
804	AGTGGCTTGTCGCTTAGAACA	784
379	CACAAGTGGAGCACAAGACCT	359
254	GCCACTCAGGCTCAACACCT	235
493	AGCGGAATCAGGTCAAGTGTT	473
378	TTCCAGCTAGTCGGACTGAGAA	357
1373	CCTGGACTCGTGGAACACTCTT	1352
655	ATATTGTAGTCGCCGATTGAACA	633
437	TTGTAAGATCCAATCGAGCGA	417
448	GAAGTCATGAGATAGTGACCTGCTAG	423
443	CCAAGGTAGGATGTCTCCAGGA	422
490	CCAAGGTAGGATGTCTCCAGGA	469
230	CCAAGGTAGGATGTCTCCAGGA	209
125	GGAGAGAAGAACACCGAATCG	105
204	ACGGTAATGATAGTAGTTGACTGGTG	179
246	GCATCGGTCTCATAGGCATCC	226
1006	CCTCAGAATGTTGAACGTCACTG	984
193	TTCTGACATTTCGCATGCTCTT	173
1640	CGCTTCTCTACTGTTCTCTGTCC	1618
1037	TCAGTACATTGTTCCAGTGAATAAGC	1012
1129	CAATGGCAATGGTGGTATCG	1110
592	TTGAATGGAGTCGGATGGAA	573
1120	CAGTAGGTTGAGCACAGATTGG	1099
421	ATCCGCAAGATCCACGTATG	402
858	CGAAGGCGAGAATGTGTTGA	839
588	CGTTCCGCACATTATCATCAGA	567
306	GAGCTACTGGAGCTGCTTGTG	286
257	GCTGGAGACGAGACACGAGT	238
179	TTCTCCTTGACAGCTCATGCA	159
722	TGTCCTGTCGCAGTGATTCC	703
260	AGAACACAACATGTAGAGTAGAGTGGTT	233

146	TTCTTCAGACTTCAGTGCTATGGA	123
150	AGAAGGATGTGTTCCGGAACG	131
285	CATTACGAATAGTCACTTCTAATCCAGA	258
220	AGCTGTGTTGGCTCTCCATC	201
162	AATCCTAGAATAGTTGAGCGAGAGC	138
150	AAGCACACAACCTCCACTACCG	130
307	TGACAATACGCAGTTCCAATGATG	284
234	GCCGCCAGATAATATAGAAGCA	213
801	CATTAGCACGCATTGGACTG	782
458	GGCTTCAGTGACGAGTCCATC	438
239	GCCACAATCTTCTGCTTCTCG	219
2370	CGGTTGTGAGCAGGATAACGGTA	2348
2026	CGGTTGTGAGCAGGATAACGGTA	2004
502	CTGAGCCGGTAAGATGAGCA	483
326	CCATCCTTATCGACGTACCG	307
215	TCCTTATATGGTAGAATAGCTGGAGAA	189
336	TTCGTGACGACAGCACACTT	317
908	ATCATCATTAAGACACCAGTTCCTAA	883
235	TGATATATTCGCATCTTCGGATC	213
443	TCCAGTGAAGTATATGTTCCATTGTTGA	416
791	ATATATGCGGCATGTTCCGGA	772
568	CCACTTCATCAATCTTCGCAA	548
134	CCTACAAGAACAGTGCCAATGATG	111
106	CGATGACAAGCGACTCTCCT	87
581	TTACTGAAGTCACAGTGTCTATATTCGG	554
2351	CGTCAATCCTCCGCTAATCG	2332
692	GCGGTATCACTGGCTCCTAA	673
777	GCGGTATCACTGGCTCCTAA	758
698	CACCAATCTCGCCAATCTCA	679
707	CACCAATCTCGCCAATCTCA	688
814	GGCATTCAGAACTTCAATAGCG	793
814	GGCATTCAGAACTTCAATAGCG	793
577	GGCATTCAGAACTTCAATAGCG	556
764	GGCATTCAGAACTTCAATAGCG	743
847	GGCATTCAGAACTTCAATAGCG	826
397	TTACCATTGTGGCAATGCTCT	377
144	TGTCATTCCACGTGTACAATAGACT	120
241	CAACAACACACAACGCCATCA	221
810	TGAATCACTGTTGTAAGCGATCAGC	786
865	TGAATCACTGTTGTAAGCGATCAGC	841
777	TGAATCACTGTTGTAAGCGATCAGC	753
126	AACGATTCTTCTCCGCAATG	106
161	TCCATAATTCTCACAGATGTCTTGA	137
122	TCCATAATTCTCACAGATGTCTTGA	98

701 GCAGGAAGGAGAATAGCGTCAC	680
220 CTGTTAGCGAGCAGCTCTCC	201
254 GTTGGCTGATGAAGATGGACA	234
352 GTTGCAACAATGCTCTAATGCA	332
314 CGGATTCATCTTCCTCATCTGA	293
302 CGGATTCATCTTCCTCATCTGA	281
337 GGCTGTCTGTGTCTGCTGGT	318
120 GAGAGTTCCAACGAGGACCA	101
180 GACGGTTACGATGTACTCGGTGT	158
1091 CGTCGGTGAGAGGATTGGTA	1072
226 CGTCGGTGAGAGGATTGGTA	207
812 AATTGTCGAATTGTGATGTCAGAT	789
261 GGCTACATACTCATTGCTAGACCTATC	235
1182 CCGAAGGCTGTCAATGTCAC	1163
1207 CCGAAGGCTGTCAATGTCAC	1188
330 CCGAAGGCTGTCAATGTCAC	311
129 AGCTCGTGTACTTCTCACACTTCTC	105
143 CCGCTTCTGCTCACCTCAGG	124
133 CACACATGACTCGTCTTCTATGC	111
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1072 CATTCCAGACCAAGTTCCGT	1053
1230 CATTGGAGTCTCTCTGATGTCATC	1207
628 GAGCCATGAATCTGCCGATC	609
814 TGTCAGGAGAGGTGCGATTG	795
242 TTCTTGAATTGTACGCTTACTGATG	218
424 GCATTCCTTCCTTCTCGGTAA	404
132 CTTCCGTCTCTTGACTTGCTG	112
865 CATTGCGATTGGTTGTTGGT	846
842 CATTGCGATTGGTTGTTGGT	823
917 GGATTGCTCGCTCGAACTCG	898
575 CAGTTGTCTATTGCAGTGTATAGAGTGA	548
228 CTCTTCGCATGTTCTCGTGA	209
392 CGTAGGTCATCAGGTACACAATCG	369
322 TTACAGATTCAGGCCTTCCTACA	300
573 ACTGGCTAGCACGAATACCG	554
835 TCTGCCAAGACTCTGTCTGGA	815
762 TTGGAATGGAGATGGCAGCA	743
551 TCGATTGAAGTGTAGATTCCGAA	529
883 TGGATTGTCTTGATCGTAGAATACAG	858
178 TTACAGGCATCGCAAGTCAGT	158
922 TTGTTGATGGCGAGAGAGAAG	902
951 CATTGCTGGAGAAGAAGTTGC	931
283 CCAGACAATTATCTCTCCGTGTG	261
229 CTCGCAGCATCTCATTGAGC	210

156	TGTTGGTTGGATGGTTGAGCA	136
263	CAGTGTGAAGAGCCAATCGTT	243
171	TTGATCACAGAGACGGCAGATG	150
240	TGCCACATTATCGTCGTC	221
298	CGTACACTGCGGACACCATA	279
388	AACGGATATACTGCCAGTAGCC	367
879	CATGGTGTCACTCACGGTGTAGA	857
2871	AAGTTACTGTAGAGGTCGTTGAGCA	2847
570	CATAACACAGGCAATCTCTTCG	549
162	AGAGCGGTCGATGAAGATGC	143
335	CGTGTCACAGAATCACTCAAGG	314
127	GACGACGAACTTGTCACCTCA	107
559	TCTCCACCATTCACTTCCGA	540
572	TCTCCACCATTCACTTCCGA	553
276	TTGCTTATCCTCGTCGTCCTTCT	255
376	GAGAGCAGTAATCTCGGATTCGTC	353
1927	TGGCATTGAGAGTATCCGCTT	1907
1917	TGAGCCATTATACTATGCGGTGA	1895
1917	TGAGCCATTATACTATGCGGTGA	1895
1917	TGAGCCATTATACTATGCGGTGA	1895
1927	TGGCATTGAGAGTATCCGCTT	1907
1969	TGGCATTGAGAGTATCCGCTT	1949
454	TTGGTGGAGGAGGAGTGGTT	435
301	TTGGTGGAGGAGGAGTGGTT	282
627	CCATAGAGCGTTCACAGCAA	608
1455	CGTCGTCTGCTGATGATGGT	1436
1449	CGTCGTCTGCTGATGATGGT	1430
124	TTGAACAAGCGTAATTCAACGT	103
129	TTGGCCTTCTTCTTCTTCGTCT	108
149	GCCGAGCAGACAGCTAGATG	130
350	ATCAATGCCTCGGAACAATC	331
170	TGTCCAGCATCCGAATCTTG	151
1016	CAGGCATGAGCTGGAATAACTC	995
838	CAGGCATGAGCTGGAATAACTC	817
889	CAGGCATGAGCTGGAATAACTC	868
153	CATTCGCAGGTGGAGCATAC	134
153	CATTCGCAGGTGGAGCATAC	134
770	GTTCAGCACATCCACGGACA	751
1724	CTGGAGCAACTGTCGTCGTC	1705
2030	GCGTATATCCAGAGCAGCATTC	2009
364	CTGTCAAGACCACCTCGGAT	345
789	AGCACACGAAGAACCACCAA	770
123	CTCCTGTTCTCCTCTTCTCCTC	101
860	TGATCCTGTTGTGCAGCAAAG	841

870	TGATCCTGTTGTGCAGCAAG	851
152	CTGTCCTCAACTTCTTCATCTACG	129
1384	TCACGAGCACCTGTTACCAA	1365
163	CCATACGTGCCTGATGTTGC	144
905	TGGATGTTCAAGATGGATCAAGA	884
893	GCTGCTTCCGACAGATCATT	873
257	CGGAGCTTCACGTAGCGGTA	238
420	TGAACCGTATTACTACGTTACATGG	396
1917	AGCAACGCAGCACCTTCTTC	1898
2215	AGCAACGCAGCACCTTCTTC	2196
1926	AGCAACGCAGCACCTTCTTC	1907
2224	AGCAACGCAGCACCTTCTTC	2205
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2215	AGCAACGCAGCACCTTCTTC	2196
2213	AGCAACGCAGCACCTTCTTC	2194
173	CATCATTCATTGTGAATGGTGAG	151
275	CTGCCTTGAGAATGGTCCGT	256
270	AATCACATCTCTTACTACTCCTTCATCA	243
1802	CATCATCACCAACGAACACG	1783
215	TTGGTATTGTTGCCTATTCGC	195
636	CGATTGGTGGACGAAGATGT	617
301	CTCCGATGTGGTCTTCACGA	282
1417	CGAGGCATCCACCATCACAA	1398
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786	CCAATGAAGATGACGAACAGACA	764
785	CCAATGAAGATGACGAACAGACA	763
121	TGAAGAGACGCAGTGCTAGGA	101
129	GGAAGTGATCGTAGTCAGACTACAATG	103
564	CTCCAAGCTTCTCCGGTGAT	545
1344	TCGTCAGTATGTCGTGCATGT	1324
526	GGCACGAATGACACCAGGAT	507
162	CAACTGCTTCTCCTGCTTACG	142
159	CTCCACTAATCCAGTTGCTCCT	138
159	CTCCACTAATCCAGTTGCTCCT	138
647	GGAGTGAGCAATCGACAGTGA	627
651	TTAACGCTGCTGGAGATGTT	631
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280	TGTCGCTTGAAGCTGTTCCAC	260
284	CGTGCCACATGCTTCTCTCG	265
236	GTCGCTTGTAAGTGTCTAGAGCTG	212
729	TTCAAGTCAGCAGGAAGGTAGTG	707
126	TCTGAGCCGTCATATCTACTTGC	104
156	CGACACTGGACCGTAGCCTTG	136
530	AAGATTGGTCATTCCGAGGTT	510

405	CGAACTTGGCGATTACAGAGTT	384
1010	GACACTGAAGACACTGATTGCCT	988
995	GTCATAGATAAGTAGTATTGCGCTGAGT	968
1428	TGATTCTGTCAGAGTTGGCAATG	1406
474	TGATTCTGTCAGAGTTGGCAATG	452
183	CTATAGTAACGATAATGCTCATGCG	159
939	GTGAGAGTGTACTGACATTGGAACG	915
356	CAGTTATCGGTCGGAAGAGTTG	335
156	CGAACATTCGGAACCTCGGAA	137
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919	TCAAGAAGACGGAATACAACAACA	896
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126	TTCAATTCGTGGTGGTGTGG	107
363	TTGCCACAAGTGCAAGTAGG	344
996	ACCGTAACCATAAGATCCTCCAG	974
900	ACCGTAACCATAAGATCCTCCAG	878
362	GATCAGAGAACTCAACGAACGCA	340
1085	ACCGTAACCATAAGATCCTCCAG	1063
987	ACCGTAACCATAAGATCCTCCAG	965
170	CAGTAACGGAAGAGGAATGATGT	148
128	CAGTAACGGAAGAGGAATGATGT	106
537	GCTGTTGTTCATCGTGTAGTCG	516
225	CGAGCACCAATGAGAAGACG	206
389	ATAGTTATGGAAGGTGATAGGTGTGAA	363
840	GCAGATGAAGCACGTCTCAA	821
381	ATGGCGGTGATTATGGAACA	362
1088	AATAGTTCACTACCGAAGACTGTGG	1064
707	TTGTTGGCAGCGTCCGATAC	688
592	CAGTTGACAATGGATTCTAGTGAT	568
413	TGCCGCCACTAGAAGTATGAC	393
566	TCGGTGAAGTTGGTTCTGAATC	545
570	GGAACAACCTCGTAATAGCCAGGA	548
150	TCTACACATACCACGCATCTTGA	128
895	GCTTCTTCGTCTCTGCTTCTCA	875
123	TCGCTAACTGTGTGGTGCTATGG	101
926	CCTGTGGTAGAATGACTCGACTT	904
775	AACCGTAGACATACTCTTGTGAACTACA	748
293	GGAATGGTGGAGTTGTGGTG	274
237	ACTGAATTGAATGGCATCGC	218
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160 CCAATCGGAACCTCTCTCACAG	139
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129 TGTCGTCTACCACTACCACCAC	108
389 CGGTGTAGATTGCGGACGAG	370
241 CGGTGTAGATTGCGGACGAG	222
811 ACGACGATCTGGTCCTCCTC	792
1014 ACGACGATCTGGTCCTCCTC	995
362 ACGACGATCTGGTCCTCCTC	343
143 TTCGATCCTTGATGAAGAAGAAC	121
146 CATCGACGAGTACGGATGTG	127
129 TTGTCAATTAAGCGAGAATCAATC	106
381 TGGAATCATCGCAGTGTTG	362
284 GCGAATGAATGATGGAGAAGCC	263
392 ATTCCAGCCAACATGAAGAGAA	371
92 TCACCATCATCTCATTCTCAACCA	69
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862 GTCTCCGAATCTTCCGAACA	842

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578	CTGGCGAGAAGAACGATTGC	559
199	CGTAGTTGATGGTGTCTGGCTCT	178
177	CGTAGTTGATGGTGTCTGGCTCT	156
199	CGTAGTTGATGGTGTCTGGCTCT	178
583	CGTCAGGAGCCATCATAAGC	564
1341	CTCCAACCTCGTGTCTGCTTCT	1322
1341	CTCCAACCTCGTGTCTGCTTCT	1322
617	TTCGTCTTCCAATCGTCCTC	598
419	AATGTCATGTTTCATGCCTTGC	399
824	CGGCGGTGATGTAGTTGTCG	805
1064	CCGTCCAATGTAATTGCGTTG	1044
1080	CCGTCCAATGTAATTGCGTTG	1060
1327	TATGTGGTTGTGCGGCTGAC	1308
1262	TATGTGGTTGTGCGGCTGAC	1243
915	TATGTGGTTGTGCGGCTGAC	896
164	GCGGTATCGTATGAATGGAACA	143
582	TTAGTGGTTGATGGCTGGCT	563
582	TTAGTGGTTGATGGCTGGCT	563
259	CATCTTGAGTTGACGGCGAA	240
418	ATTGGTCGCCACGATATGCT	399
432	ATTGGTCGCCACGATATGCT	413
136	GGAACAAGAATTGCGCACAA	117
533	CGGAGAATGTGGAGGCGAAT	514
1173	GGTGATGGTGGAGCAGAGAT	1154
1067	GGTGATGGTGGAGCAGAGAT	1048
350	ACACCGCTACTCTCTTCTGCTT	329
341	ACACCGCTACTCTCTTCTGCTT	320
193	ACACCGCTACTCTCTTCTGCTT	172
201	ACACCGCTACTCTCTTCTGCTT	180
202	ACACCGCTACTCTCTTCTGCTT	181
193	ACACCGCTACTCTCTTCTGCTT	172
201	ACACCGCTACTCTCTTCTGCTT	180
193	ACACCGCTACTCTCTTCTGCTT	172
201	ACACCGCTACTCTCTTCTGCTT	180
202	ACACCGCTACTCTCTTCTGCTT	181
250	CTGTGAATGCAACTCCAGCTT	230
659	TTCACACTCTCATCTTCTCAACTG	635
847	CCGATAGAGCCAAGGTGAATG	827
194	GAATCAAGTGTGGAGCATCGG	173
1721	CCTTCTCCAACAACCACTGC	1702
254	ACACAGAATGCTCCACTGTATGC	232
2022	TGCTGCTTCTAACGCTGGAG	2003
637	TTGTCGCAACTACTATTGTTACTGA	610

823	TGATGCTCGTTGATGTTTCGC	804
872	ACGTGACCTCGGAATTGATC	853
1525	GCGTACTGGAGGAGCATATCATC	1503
257	TGCTTCATTGATAACAGACCACA	235
243	GTCGAGCAATATGAGGATTATGC	221
161	TGGACTTCTAACACCATCACCTC	139
132	TTCCTCATTATTCATAACACATCAATC	106
1284	AGCCATTCGTACTTCTTCAACAC	1262
1719	AGCCATTCGTACTTCTTCAACAC	1697
1719	AGCCATTCGTACTTCTTCAACAC	1697
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309	AAGAGCAGCAACACGAACATC	289
309	AAGAGCAGCAACACGAACATC	289
138	CGCAAGTTACATTGTGATAGTGATG	114
138	CGCAAGTTACATTGTGATAGTGATG	114
110	TGAGTAGTCCGCCTTCTTCG	91
558	GGCGACTTGATACCAGAGTAGATC	535
474	GAGCAGCACGCATCACGAAT	455
358	GAGCAGCACGCATCACGAAT	339
975	GGAGGTTGAACGTATAGTTGGCTCT	951
1048	GGAGGTTGAACGTATAGTTGGCTCT	1024
871	GGAGGTTGAACGTATAGTTGGCTCT	847
1725	GTATCTTCTTCTTGTCTTCCTCCA	1701
1569	GTATCTTCTTCTTGTCTTCCTCCA	1545
382	AGCCTGGACGAAGGCGTTAC	363
1375	CCATTCAGTCAAGTCGTCCAT	1355
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988	AAGGCAGTAATTGTCCGTGTCT	967
4450	CAGTCACGTATTGTGAATCATGGTTG	4425
1031	CAACAGATATTAGAATGACGGTGAGA	1006
2930	GGTAGTTATGATAGAGACAAGTGTTGGA	2903
179	GCAATGGCGAGAGTCACACG	160
250	TCATCATCGTTGGAATCGCCTA	229
488	CGGTTGAGTTGGAATCGTTAG	468
112	GAACGACGACTGCTAGTGCTG	92
402	CATAACAAGCGTCGGAATCG	383
370	TCTAATCGGTGTGGTATCAGGTC	348
370	TCTAATCGGTGTGGTATCAGGTC	348
370	TCTAATCGGTGTGGTATCAGGTC	348
337	CGTCAGTTCCTGGCTCTCCT	318
879	TCCGCCATCTTCACTACACCA	859
869	TCCGCCATCTTCACTACACCA	849
1173	TATGACGGCAGTGACGAATG	1154
170	AGAGCTGGTCTTGGCCGTTA	151

95	GCCGATGGAGAAGAAGAGAAGG	74
213	TTCTTGAGAGTTGTCTGAATCCA	192
553	CGGAAGTGTGACACGTGGAAG	533
125	GACCGTGTGCCACATCATT	106
384	CCACCACCACGAGGAGTTGT	365
150	CAGAATCATGTTGGCATTGGTG	129
501	TGGATGAAGTTCCTGGATCG	482
226	TGAGCAAGGTATCCGAGAGTGA	205
697	GTCTTGCCATTCCAGTCATTG	677
4121	TGAGTTGTGCGAGTGATTGTCT	4100
2168	TGTTGCGCGTCGTACAGGAT	2149
1402	TGAGTTGTGCGAGTGATTGTCT	1381
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163	CTTGTCCGTTGACCGCTGAT	144
191	TCGGTCTCTGGCAACTCCTT	172
130	ATGGCGAGAAGAAGGACACC	111
331	CATATTCTGCGTTGGTCTTCTCA	309
152	GAGTAAGCAGCTTGCAATTCCA	132
962	TGTAATGAGGAGCGGAGAAGA	942
1286	TGTAATGAGGAGCGGAGAAGA	1266
203	CGAACGGCTTGACTGTATGG	184
518	CAATCTCGACAAGTCCGCCTT	498
426	CAATCTCGACAAGTCCGCCTT	406
589	CTTGACCTTGATACCGATGACTC	567
589	CTTGACCTTGATACCGATGACTC	567
76	CGAGAACACGAATGAATGCG	57
106	CGAGAACACGAATGAATGCG	87
76	CGAGAACACGAATGAATGCG	57
106	CGAGAACACGAATGAATGCG	87
236	AATGTCGCATATTCTTCTTCAGAA	213
1510	CACAGCAGCATGGATATCGA	1491
1392	TTCACCTCCACAACGCCATC	1373
1417	TTCACCTCCACAACGCCATC	1398
1417	TTCACCTCCACAACGCCATC	1398
1450	TGTATTCGGTATCTTCTTGTTCA	1427
1450	TGTATTCGGTATCTTCTTGTTCA	1427
241	TCATATTCGCAGTTATCATGTGAGT	217
324	CGTATGTGGTAAGTTCATCGTGA	302
335	CGTATGTGGTAAGTTCATCGTGA	313
164	CGTATGTGGTAAGTTCATCGTGA	142
334	CGTATGTGGTAAGTTCATCGTGA	312
478	CACCTCTGAACACATTCTAAGCTCACA	452
478	CACCTCTGAACACATTCTAAGCTCACA	452
460	CAGAACAGCCTCCTCACATCC	440

532	CAGAACAGCCTCCTCACATCC	512
460	CAGAACAGCCTCCTCACATCC	440
437	CAGAACAGCCTCCTCACATCC	417
532	CAGAACAGCCTCCTCACATCC	512
142	TCGAGCGGTGCTTGTATCCT	123
178	CAATCAACTGAGCGACTTCCTT	157
404	TGGCTTCTGTCGTCTTGTCTG	385
1184	GAGGCGTGAGTGATGACAACA	1164
731	AAGAACGGATCTTCACACGAA	711
1007	GAGGCGTGAGTGATGACAACA	987
944	CCAATAAGTCCAACACACATAACAGT	919
147	ATGTTGTCCTCCGTAATGTGC	127
1014	CCAATAAGTCCAACACACATAACAGT	989
1089	CCAATAAGTCCAACACACATAACAGT	1064
1050	CCAATAAGTCCAACACACATAACAGT	1025
383	GATTCTGTATTGTAAGCACCA	360
306	TTGCGGTGTGCTGGTTGAAG	287
1219	CAGAATATGTTGCAGCGGAA	1200
196	CAGAATATGTTGCAGCGGAA	177
354	TGTGATTGTAATCTTCGCCTGA	333
204	TGTGATTGTAATCTTCGCCTGA	183
894	GCTCTTCCTGTGTGCCGTTG	875
356	TTCCTCGCAGTATTACCTTG	336
633	TGCTGCTTCAGATAAGTGAGGTC	611
565	ATGCGGAATTAATGATTAATGCAA	542
108	GGTCTCTTCTACGTCGAAGCC	88
326	TGAGTTCGGAAGCCTCGTGA	307
205	AGTGATGCTTCTCGGTCAA	186
868	AGGTTGTGATGGTTAGTGCTGAC	846
562	GTGTTCCGATCGTTGTAATCG	542
494	ATCCTGAGCCACAACGACG	475
594	GTGTTCCGATCGTTGTAATCG	574
466	GTGTTCCGATCGTTGTAATCG	446
589	GCGTCCTCAACCAAGAATACACT	567
80	CGATTAACGAGACAACCTACCAGAACTC	54
148	TCAGATTCCAACCGAGAACTTC	127
420	ATTATTCATTGATCGATCTCTCG	397
91	TTAAGATTGTTCCAAGTGCCAA	70
257	GAATGCGGCTTCTGGTGTCA	238
1593	ATCAACGCCAGATCCACCTC	1574
1643	ATCAACGCCAGATCCACCTC	1624
1617	ATCAACGCCAGATCCACCTC	1598
1667	ATCAACGCCAGATCCACCTC	1648
1913	TTGTGTGCCGAGTCTTCTGA	1894

1963	TTGTGTGCCGAGTCTTCTGA	1944
274	CGATTCATCCTGTGGTATTAGTTG	251
695	AAGCAGAGCCGATTGAAGCC	676
695	AAGCAGAGCCGATTGAAGCC	676
932	AAGCAGAGCCGATTGAAGCC	913
932	AAGCAGAGCCGATTGAAGCC	913
782	T TACTGCTCCGCCGAGATTC	763
782	T TACTGCTCCGCCGAGATTC	763
143	ACTGGCCAATGCTCTACGGA	124
1361	TCAGCAGCAATAGCCTCCAT	1342
157	GGCCAGTACGAGACCAGCATT	137
174	GGCTGTGGTCCGAATCCGTA	155
174	GGCTGTGGTCCGAATCCGTA	155
173	GGCTGTGGTCCGAATCCGTA	154
188	GGCTGTGGTCCGAATCCGTA	169
174	GGCTGTGGTCCGAATCCGTA	155
195	GGCTGTGGTCCGAATCCGTA	176
573	AACACCTTCGGTCATTGAACA	553
1016	GCACGAGCATATTCTTGGTCA	996
1016	GCACGAGCATATTCTTGGTCA	996
286	GATAATGATCGATAATTGCACAAGC	262
887	ACAGAAGGAGGTCGGTCAGG	868
1110	TTGATTGTGCTGCTGGTTGAG	1090
175	TTGTTTCATGTCTGCTTGTCACG	154
578	CTGTTGTTTCATTGGTCCAGCT	558
695	GAAGCCGAGAAGGATGAACACT	674
367	CGTGACGGTCCAACGTAGC	348
367	CGTGACGGTCCAACGTAGC	348
367	CGTGACGGTCCAACGTAGC	348
248	AACACTGCTCGTTCATATCTCCA	226
778	CGCTGTTGAGAACGCTTGAG	759
1009	CAACTTCCACAGGTATCACTTCG	987
477	CCACAGCAGACTTGGCAGAA	458
493	ATACAAGCAGGTTCCAACGG	474
444	CACTAGAATGTAGTAGCGACACCAGAA	418
255	ATACTCGCTCACAACCTCCAACA	234
291	CCGTGATCTCATCGTAGCGT	272
764	GAGTTGGCACTGTCGTTGGA	745
769	GAGTTGGCACTGTCGTTGGA	750
754	TCAGTGCGGATTGGAAGAAG	735
471	GAGGTGTAGAGCAGGCAAGTGAT	449
969	GGTATCTCGTGTGACGACTGC	949
617	AAGTTGTTGAAGCCGTGTGG	598
889	CTTGTTGCTGAATGTTGGAGTC	868

332	AGAGACATGGTTGCGGAATG	313
253	TGGTGGATATAGTTGGTCGGA	233
1382	TTGACTTCTTATCTCCGTCTGCTG	1359
106	CCGTGAATGAGACGTTGTCA	87
229	GTGGAACAGTGACGCTATCAGATG	206
176	AGTGCAACAATTGCAGACGAA	156
421	CGGATGTGCGCATTGAACACA	402
322	CTCCAGATTCTCCAAGTGTTCC	301
242	CCAAGGTAACAGGACTGGTCAG	221
242	CCAAGGTAACAGGACTGGTCAG	221
250	GTTCTGCTGCTGTCCACCAC	231
1145	ACGAAGGAAGTCGCCATGAG	1126
1151	ACGAAGGAAGTCGCCATGAG	1132
180	TCGGTTCTGTTGTTAATGTGAGA	158
988	TCCTTGTGTACGAACATAGTCTGC	965
1389	CAGAATGGATGTGACGATTGTATC	1366
1305	CAGAATGGATGTGACGATTGTATC	1282
1366	CAGAATGGATGTGACGATTGTATC	1343
650	CAGAATGGATGTGACGATTGTATC	627
3638	CCAGGCTTCAGAGTTGTTCC	3619
3649	CCAGGCTTCAGAGTTGTTCC	3630
159	TTGCGAGTGTGATGGATGTAGT	138
159	TTGCGAGTGTGATGGATGTAGT	138
155	GGA CTCTCGAATCGGAACACA	135
320	AACGTCATCCAATATGTCGCTT	299
1482	AACGACCAGTGAACCAATGACA	1461
1318	CAACATTGCATCATTACATCGTAG	1295
844	GTGATAGGTTCTTCTTCTGTGCTG	821
748	TGTGAGAACTACATTGTCTGACCA	725
1556	GCTTCTCTGCGACCACTCAA	1537
1663	GCTTCTCTGCGACCACTCAA	1644
125	TCTGCGAAGTCAATGGTGCT	106
1595	GCTTCTCTGCGACCACTCAA	1576
906	TTGACAGAGCCACAGTTCGC	887
993	TCATGTTGGCGACAAGAACC	974
991	TCATGTTGGCGACAAGAACC	972
805	TCATGTTGGCGACAAGAACC	786
831	TCATGTTGGCGACAAGAACC	812
1089	TCCAGTGAGGTAAGGTAGATCAGAC	1065
1536	GAGAAGTTGCGTGACAGATGC	1516
1834	AAGGCTGGTTCAGTTGACGAC	1814
205	GAAGTTGAGGTCTTGTGCAGTCA	183
168	TTCAACACGAGCCTGGTTAGAGT	146
279	GTATTCGGCATCAGATAGGCA	259

520	CCGTCAACATCCAACTCCTCA	500
268	GGATTGGAAGAATCGGATCTC	248
232	GTACCAAGGCGACCGATTCTG	213
134	ACCGTAGTTCGTTTCGCACAT	115
136	ACCGTAGTTCGTTTCGCACAT	117
139	CCTTAGGCTTCTGCGGATTC	120
5769	GGCAGTGGAAGAGGATTCGC	5750
1277	GGCAGTGGAAGAGGATTCGC	1258
1273	TCCTTCTTGGTGGCTTCTGC	1254
1273	TCCTTCTTGGTGGCTTCTGC	1254
195	TCTGAATGCAACATGCTGCA	176
318	CATTGTTACTGGCTTCTCCTCTGTC	294
372	GAGATCACAGACTCTTGGACTTGA	349
248	CGACTTGAGGACCAACTAGGCTT	226
239	GGATCGTCTTGTGAGAAGGTCA	218
794	AACATTGTGCTCGTCACCAGT	774
797	AACATTGTGCTCGTCACCAGT	777
724	ACGGTGGACGATGGTGGGAAG	705
644	GGAGAACATTGCAACTGGA	625
644	GGAGAACATTGCAACTGGA	625
586	CCTTGTCGAAGAAGAGATTACTCAA	562
125	TTATTGCAGTACTCCGGTTCTGG	103
504	AGAATCTCGCAGTGCTCCAA	485
504	AGAATCTCGCAGTGCTCCAA	485
626	CTCGTGTTGATGCTCCTTCG	607
626	CTCGTGTTGATGCTCCTTCG	607
945	TCCAACTCTTGCTGCCGTAG	926
3875	GCGGATAGTTCTCTGGTTCTGT	3854
618	TGTCATCACTTCTCGTCGGTAG	597
618	TGTCATCACTTCTCGTCGGTAG	597
3752	GCGGATAGTTCTCTGGTTCTGT	3731
1006	GCTTCCTTCTTCCGTCTTGC	987
190	CTCTAATTCCATCTGTTGCTTCTCTC	164
131	TCGGTCGACTGGCGTAGATG	112
160	CACTTGAGAACATGAAGAACCG	139
153	GGCACTACACCTCCATCATCC	133
526	CCTGCCTAGCCATTATATGATGA	504
377	TGACACATGCAGGATGGACTG	357
368	TGACACATGCAGGATGGACTG	348
390	TCAATACGATCCTCCAGATTCTC	368
465	GGTACGAGACAAGTAATCAATGCC	442
507	GGTACGAGACAAGTAATCAATGCC	484
310	TATTCAGAGCCAAGAGATCCAAC	287
151	GCTTCTTGATGATGATGCGAT	131

2818	GGTGCTGGAGGACTTCTGATG	2798
250	AATCTACGAATGAATAACTCAACGC	226
577	GTTGAAGAGTGGCTTGTATGGTT	555
1159	GTTCGGCAGTTGCTACTTCC	1140
1158	CATATCTCTCAGTTCGGCAGTTG	1136
553	CCAGTCTCTCCTTGCCGTCA	534
135	TGGTCATCACTGCGAGAACA	116
1653	AAGACGATGAGAGTGAAGGACAA	1631
614	CCACAATCCGCCAACTCCAT	595
342	TCAGAATCGTGTAGAGTTGTCAGTTG	317
317	TCAGAATCGTGTAGAGTTGTCAGTTG	292
1201	TGGAATGATGGTTCAGTAGTTGTC	1178
1194	TGGAATGATGGTTCAGTAGTTGTC	1171
1168	TGGAATGATGGTTCAGTAGTTGTC	1145
265	CAGTAGCACGAGTCCGAGAAGC	244
335	CAGTAGCACGAGTCCGAGAAGC	314
265	CAGTAGCACGAGTCCGAGAAGC	244
786	TGGATTGATTATCGGATTGAGAG	764
320	CTGAGCACATCGTAGTGATAACCG	297
1001	AGCATACTCCAGGTCAGCCA	982
704	CCGCACGAGAGAAGTGAGAA	685
170	TGAGGTGAAGTTGACCACCA	151
151	GGACGAAGCATGTTGTGGAT	132
180	GCTCGTTGGACTGGAATTACAG	159
128	GTGTGCGTGTGGCCAACTAC	109
6087	CATCCGCCAGCCATAGTAGA	6068
218	CCAGGTTCATGACCATAAGG	198
144	CCAGGTTCATGACCATAAGG	124
420	CGTGGTCTTCGGAGTCGTTA	401
2389	TGTTCGTATCCAGCCTTCAGC	2369
264	CGAGTAGACAACAACGAAGCC	244
151	AAGTGGCAACAAGTGGAACAGA	130
434	TTCCAGTTGCCGAGTCTCTG	415
293	CCATTGAACATTATCGGCAGT	273
213	GAGAACATCGCCATCAGGAA	194
222	GGCATCTCAATGTCTCCGTT	203
430	AGTTCATATAGTCTGGCTTGGATACC	405
1037	GTGAGAAGACGACTATGATGCG	1016
221	CAGCAGTTATGATAAGACGCCAA	199
221	CAGCAGTTATGATAAGACGCCAA	199
796	TGATACCACTGCGGTAGTCTAGG	774
672	TGGAGAGGAATATACGTGGAACC	650
930	TTCCGTTCCAGTCCATCCATAC	909
334	TTCCTCACGTAGCCATCCTTA	314

208	AGTGTATCCGCATTGTGTCTCA	187
208	AGTGTATCCGCATTGTGTCTCA	187
152	TGTGGTTCACATGTATTATGGCA	130
243	TGTGTTTCATGATACATTGCTCCGT	220
115	TGTGGTTCACATGTATTATGGCA	93
105	TGTGGTTCACATGTATTATGGCA	83
132	CACCAGAGACTTACACAGCACATC	109
135	CGCAACGATAAGTATGACCTCTC	113
135	CCACGGTTCGTTGTAAGAGGA	115
127	AACAACACTAACTTATGCGTCACG	104
217	CTGTGCGGCATTCTGACATC	198
120	GAGCACCGAGGAAGAGGAAC	101
292	CGTAGCACGGTTAGGCTTGT	273
223	TGTATAAGAAGGCGAAGAAGACG	201
157	TGGATTAATACTTCATCACTCCTCAC	132
1200	CCTTGACCACCAGCAATAGAGA	1179
1201	CCTTGACCACCAGCAATAGAGA	1180
1378	CCTTGACCACCAGCAATAGAGA	1357
161	CAGTTCGATTCTCTTATATACTCGTAGG	134
1578	CGTGAAGAGATTGAATGTAGCGA	1556
816	GACATCGGTGAAGTTGTGGAC	796
341	CAAGAACTGCAACATACAACAAGG	318
223	GTGGAGATGGTGAGAGACGAA	203
222	GTGGAGATGGTGAGAGACGAA	202
277	GCAACCAAGTCGTAGGCTATACC	255
431	ATGTTTCGCCACCGATTGTAG	412
344	ATGTTTCGCCACCGATTGTAG	325
292	TGTTTCATGGAGAGCGAACGG	273
378	TGTTTCATGGAGAGCGAACGG	359
296	CGGCAGGTTGTTTCATGGAGA	277
140	GACGTTCCAGCAGGTTGGTG	121
1187	TGACCGAGTACCACGCCATA	1168
839	TGACCGAGTACCACGCCATA	820
515	TGACCGAGTACCACGCCATA	496
3385	TTCCAATTCGAGCTGACTTGG	3365
844	GTAGATTCTGCTTCACATTGCG	823
753	GTAGATTCTGCTTCACATTGCG	732
276	GAAGAGAGAACGGTGGCCAA	257
300	GCAGAATGTTTCATGGAGAGGAA	279
1001	GCACACCTAATAAGCGATGGA	981
1488	TGATGAACAGAACGAGGTGACA	1467
1524	GGCGGACAGTTATTATACAGCGA	1502
430	GGAAGAGAGACTCAGGAATCCG	409
441	GGAAGAGAGACTCAGGAATCCG	420

153	TTCATCTGTTGCGACGACTTC	133
492	GGATTGTGAACTGCTTCGGAGA	471
3040	GAGACACTTCTTGTGCTTGGC	3020
507	GAGTGATCCAGGATCAACACG	487
507	GAGTGATCCAGGATCAACACG	487
758	CGTGTCAACAATCTTCCAGGTAA	737
758	CGTGTCAACAATCTTCCAGGTAA	737
1115	GCCTCAGGAACTCTTGACGTC	1095
122	CAGGTGGCAGCAGTTGAGTA	103
334	CGGTGAGAATGACAATGATGAAG	312
1520	TTCTCATCAATCATACCGTAATCAC	1496
467	ATCAGCGGCAACACGGAAGT	448
912	TGACCAGCTCGAATGTGTTG	893
352	TCAATAGGTTTCATCTTCACTTCCA	329
352	TCAATAGGTTTCATCTTCACTTCCA	329
785	GGTGAAGTAGGCGAGGAGGT	766
96	CGACCACATTCTCCAGCATT	77
144	GCGTGTGAGAGTCTCACTGCT	124
437	GAACGCCTTGGTGTGGACTC	418
421	GATTCGTCGGTGTTCACAT	402
341	CAGCCACCACATTGTATTCACT	320
133	CCTTCTTGCCTTCGTTCTT	114
418	TCCAGTTGCAATCATTACATTATCACT	392
192	GTCAATTGTGTAGACATTCATCTGG	168
150	CCATGAAGATCGGACGCTCT	131
1160	ATGACCAGCGAAGGAAGACG	1141
160	TCGTTGAGCAGTGATTCGCA	141
570	CCGAGAACTCCATTACACG	551
5310	TCCTAGTCCTCCACGCATTG	5291
462	GTTACCTTCAAGATGCTTAACACG	438
455	GTTACCTTCAAGATGCTTAACACG	431
122	GGTGTGAGTTACAGCCACTTG	101
501	ATGCCGTACCTCACCAAGT	482
416	ATGCCGTACCTCACCAAGT	397
120	TTCCAACGCCATCTGAGCTC	101
183	TAACGCGAATTGCGTCTCG	164
1506	CAGACATTGGCGGTGAGATAC	1486
1583	CAGACATTGGCGGTGAGATAC	1563
1464	CAGACATTGGCGGTGAGATAC	1444
1385	CAGACATTGGCGGTGAGATAC	1365
1583	CAGACATTGGCGGTGAGATAC	1563
673	GACGGCTTATGAACCACGCA	654
193	CTGCGAGGAATGAACGAATG	174
810	AACCAGCCAAGTGACAGCCT	791

620	AACCGACTATCTTCAATAAGTGCCT	596
559	AACCGACTATCTTCAATAAGTGCCT	535
266	CCAGGAAGAGGATTGTAGCCA	246
723	AAGACCGTGGCTCCATATCC	704
1244	TCGTTACAGCACAGCCACAT	1225
292	CATACTGCTTAGCTTGAGAACGG	270
267	TCGATAAGTCTCATTGTCAGATGC	244
125	ATTATGAAGACATGTGAATGTCGAA	101
4056	GAGCCTTCATCTTACGCATTG	4036
1154	TGAGATGAAGAAGATCCTTGTTGG	1131
1229	TGAGATGAAGAAGATCCTTGTTGG	1206
1092	TGAATGTTAGTTGTGTCTGTGGCA	1069
1562	CTTGAACACATTGACCATTACCC	1540
496	ATTGATAGATTATGTAACGGCGATT	472
247	ATTGATAGATTATGTAACGGCGATT	223
866	TGTCGCTTCAGCAAGATCAG	847
866	TGTCGCTTCAGCAAGATCAG	847
272	AATGCAACAAGTCCTCGTTCA	252
258	GGTTCGTGGAGTTGGATTGG	239
354	GGTTCGTGGAGTTGGATTGG	335
699	TCGGA CTGTTAGATCAAGAGGTG	677
150	TTCGAATGTTAGAATCCGTCCT	129
1059	GATCACCAGATTCATCGCACA	1039
677	TGGCGGAGAACATCATCACTT	657
677	TGGCGGAGAACATCATCACTT	657
1095	CATCGCTCTTCCACACACTTC	1075
797	ATTCTTCTTCACTAGTACACGTTGCTA	771
1889	GCACCATCTTCGGATTCTGA	1870
1782	GCACCATCTTCGGATTCTGAG	1762
177	TGCAATTGATGACATCGCAT	158
141	TTCTAGCCATACTCCAGTCCATG	119
96	TTCTAGCCATACTCCAGTCCATG	74
1213	TCTGTAGTATTATTGACTCCTGTTCCGT	1186
1185	TGTAGTATTATTGACTCCTGTTCTGGT	1158
1381	ACTTGCCACAAGAGTTCCAGTT	1360
645	GCAGGCAGTACGACCGAGAA	626
695	GCAATAGAGAGAGTGAACGATGG	673
524	ATTCCATCCAGACGGAGGAA	505
1242	AGTGAATCCTTCTAACGCAGTGA	1220
537	CAAGAAGTTGATGACAATGAGCAGTT	512
2047	ACA ACTCCACCACCAACAAGA	2027
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747	TGTCGGTTGTCCACGCATTC	728
583	CTCCACTCACA ACTCCACAGG	563

529	CTCCACTCACAACCTCCACAGG	509
583	CTCCACTCACAACCTCCACAGG	563
529	CTCCACTCACAACCTCCACAGG	509
719	CGTTCCGCAGTTGTAGATGG	700
976	CGGAGGTGGTGGTATAGGAGA	956
2138	ACTATCCGCTTCTCGCCTTC	2119
976	CGGAGGTGGTGGTATAGGAGA	956
238	TCATGTTGTTGTTGTTGTTG	219
159	GCTGTTGTGGTTGGTATCCG	140
205	AGGTTGGTGGTGGTGGCATT	186
1271	ATACGCAAGCAGCAAGTCCT	1252
451	GCAACAATCGACGTGGTTCT	432
448	GCAACAATCGACGTGGTTCT	429
108	AATTCTTCTCCGGCTCCGAT	89
110	AATTCTTCTCCGGCTCCGAT	91
359	TCAAGTCAAGTTCATCTGGAACAGAA	334
645	TTCTCTTCGTTGCTCGGATG	626
274	AACTGTGTCTGCTTCGCCTT	255
400	AACTGTGTCTGCTTCGCCTT	381
371	AACTGTGTCTGCTTCGCCTT	352
174	TCAGCAGCTTAGAGCTTCAGC	154
415	TGGAGAAGTAGACGAGTTGAGGTG	392
1186	GGCAAGGTGAATCCAGGTAA	1167
223	AGAGCAATCGGTGGCTGAGC	204
120	ACACCTCCGTAGCTCCGCAT	101
135	GCAGCAAGCCGTGAATACATG	115
179	AGGACTGTGGCGGATAATCC	160
2529	GATGAATGTCTTCTCCAATGTCG	2507
721	TGGATTGTGGTGAAGTTGAGTC	700
9839	GCTCTTCCACCACCTTCTGC	9820
9839	GCTCTTCCACCACCTTCTGC	9820
9845	GCTCTTCCACCACCTTCTGC	9826
9845	GCTCTTCCACCACCTTCTGC	9826
9851	GCTCTTCCACCACCTTCTGC	9832
9851	GCTCTTCCACCACCTTCTGC	9832
9845	GCTCTTCCACCACCTTCTGC	9826
9845	GCTCTTCCACCACCTTCTGC	9826
172	TCACCAATCCATCCGCACAC	153
232	TTCTGTCTTCCGCCGAGATC	213
1572	CCACATCCACGAGAACACACA	1552
220	CGCAACTCCACATACTTCGC	201
277	GGTTGTAGAGTTGGCTCGGAT	257
199	CACATAGTTCATCGTCTTCTCGT	176
169	CAATGAATCGTGGTCAAGCA	150

336	TTCAGCCTCCAACAAGTCGT	317
302	TTCAGCCTCCAACAAGTCGT	283
193	TTCAGCCTCCAACAAGTCGT	174
191	TTCAGCCTCCAACAAGTCGT	172
193	TTCAGCCTCCAACAAGTCGT	174
193	TTCAGCCTCCAACAAGTCGT	174
237	TTCAGCCTCCAACAAGTCGT	218
1455	GCTCCTTCGGAACAATGGTC	1436
183	GCTCTCCAGTACGATGCCAT	164
1372	TGATAGAGGAGAGACACGAGACC	1350
233	GCTCCACCTTCGCCATTCTG	214
232	TGAACTGTTGTTCCATGCCTT	212
3209	CGCATCTATCTTGGCACTGG	3190
321	GACCACACGGAGCCAATCAC	302
399	GACCACACGGAGCCAATCAC	380
343	CGATTGGAGAGCATGGATGT	324
499	CGATTGGAGAGCATGGATGT	480
938	GCATTGAGGAGAGCATAGAGAGTC	915
144	TGAAGTGGTTGAAGCAGATGATGT	121
2173	GCAGGCTTCCGTGGTAGTTC	2154
240	GGAGCAATCCATCGTATGTTG	220
324	TGACATCCACGGAGCACGAG	305
137	TTCCATTATCTGTTGTTCCAGTTGAG	112
1728	TCCAGAACTTAAGAACCGATG	1706
1570	TCCAGAACTTAAGAACCGATG	1548
1710	TCCAGAACTTAAGAACCGATG	1688
2060	CGGTACATGTAATCAGAATACGGTAGA	2034
1916	CGGTACATGTAATCAGAATACGGTAGA	1890
2006	CGGTACATGTAATCAGAATACGGTAGA	1980
1862	CGGTACATGTAATCAGAATACGGTAGA	1836
1747	AGACAAGTAGGCGTTCAGCAA	1727
1905	CGGCTGCCTCATTACACTTCA	1885
107	GGACACGTTCCATCACTCATC	87
1910	CGGCTGCCTCATTACACTTCA	1890
1869	CGGCTGCCTCATTACACTTCA	1849
1879	CGGCTGCCTCATTACACTTCA	1859
149	ACAGCTAGAACGAGCCATCG	130
168	ACAGCTAGAACGAGCCATCG	149
158	ACAGCTAGAACGAGCCATCG	139
95	ACAGCTAGAACGAGCCATCG	76
124	ACAGCTAGAACGAGCCATCG	105
870	GAATGCAGCTACAGCTATGATAGAAG	845
224	CGTGTCTCTGTTGAGTTCCA	204
224	CGTGTCTCTGTTGAGTTCCA	204

109	ATGAATCTGAACAGGTTGTCCAT	87
740	TGAATCACTTATGTTCCGACGA	719
743	TGAATCACTTATGTTCCGACGA	722
161	ATTCGTCGGCGGAACATGAG	142
1396	TGGTCCTGGTTCAAGAAGTGC	1376
1061	CATCACAGTTCTGCGTGTCTCG	1040
1224	GCGAATCATGTCCAATACAGAA	1203
534	TCCATTCTTCCGCTTCCATT	515
532	TCCATTCTTCCGCTTCCATT	513
391	TCATTGAATGTCGATTGAGCAG	370
126	GCACAATATTGTGCACATCCG	106
529	CCAAGAGACACAATCGACGAT	509
182	TCGGTGTGTGTCGTGGTGAA	163
1120	CCGTAGATGTGACTGTGGCA	1101
841	GGAAGTGTGGCAGACAAGCA	822
305	CGGCAGTCGATATTCGTCAA	286
334	CGGCAGTCGATATTCGTCAA	315
710	GTAGATGCTTGACTGGAGACTGG	688
2024	TCAACAACCTCAGCATCACCT	2004
121	GCGGTCCGATTGACATCTAC	102
721	CCTGCTGCTTCTTGGCTTGA	702
453	CTCGTGATGAGCGGAGACAA	434
556	CTTCTTGGTAGGCGGTGACA	537
617	CGATGAGTTGACCGGACAAC	598
578	CGATGAGTTGACCGGACAAC	559
785	AAGGTGATTGCGCTGGTGAT	766
350	ATCTTCAGTACGCTGCTCTGC	330
210	TATTACCTTCGCCGCCACTT	191
1277	TGGTCTTGGCGGATTGCTAT	1258
216	TTGATCCAATCCATCACTCCTC	195
216	TTGATCCAATCCATCACTCCTC	195
147	AATTCACATTAATTCTCACATTACC	122
341	ATGTATCTGTTGAACTGTCCTCCA	318
363	CAGTGATTAGATGTTGTGCAATAGCC	338
537	GAAGAAGCGTATTGGTGACTGG	516
968	GAAGAAGCGTATTGGTGACTGG	947
191	GAAGAAGCGTATTGGTGACTGG	170
694	CCAATGCATATCTAACTGATAATGAAGT	667
671	GTGTTACGGTGGCAGGCGAT	652
501	ATCTGCTTCGGAGGACTTGG	482
601	CGAATGCGGTCTCTTCACTT	582
960	CGAATGCGGTCTCTTCACTT	941
781	ACGGTGCCAGGATGAAGACT	762
145	GAGAATGTGCTGGTTGCTGAA	125

492	AAGCGTTCGATCGTGTCCAG	473
178	TGCGTGCTCATCGTAAGTCG	159
1244	CGACGTAGAGCAATGTTGGTT	1224
1918	TGACGGCAACGAAGAGTGAC	1899
1890	TGACGGCAACGAAGAGTGAC	1871
299	AGGTCTTCATCTTGACGAGCA	279
503	CACCACCGAGAGGAACCAAT	484
330	TGGCGATGAGAAGTGTGACG	311
3404	TTGTTGTAAGGAAGTCTGGTGTGT	3381
261	CGTTATCGATGTTGTAGATGATGAC	237
245	TCGTCGCACAATAGAAGTTCC	225
151	TGATCGGCCACGTAGGAGAT	132
242	TTCTCGTCGCACAATAGAAGTTC	220
235	TGACTGATGAAGTGAAGTTGATCTC	211
1331	ACACTTCTGATTCTGCTGCGT	1311
1331	ACACTTCTGATTCTGCTGCGT	1311
1331	ACACTTCTGATTCTGCTGCGT	1311
1331	ACACTTCTGATTCTGCTGCGT	1311
539	TGATAACCTCCTCTTCCTCCTG	518
625	TGATAACCTCCTCTTCCTCCTG	604
225	GATACGACGGTGGTAGATGGA	205
134	GATACGACGGTGGTAGATGGA	114
571	GTGGTCCTTGTCTCCGATT	552
147	AGATTGAACGTAAGAGTAGATCATTGG	121
147	AGATTGAACGTAAGAGTAGATCATTGG	121
933	TGATAGCTTCTGGCGACTCATG	912
290	CTGTAATAGCAATGAGCAAGCCA	268
244	CTGTAATAGCAATGAGCAAGCCA	222
202	TGTCGACTGAATGCCGTTCT	183
2323	CTTCTTCTGGCTCTGGCTCTT	2303
1477	CTTCTTCTGGCTCTGGCTCTT	1457
1204	CTTCTTCTGGCTCTGGCTCTT	1184
1486	TTGTCGCATCTCTTCTTCGG	1467
395	TCCAAGAAGAGCATCAAGAAGTG	373
287	CTCCTGGACGCGGTCTGTTC	268
445	CGGTGGTCTGCGATAAGGAT	426
129	AAGAACATCAATGGACTTCTCTCC	106
474	CTCCTGGACGCGGTCTGTTC	455
253	CTCCTGGACGCGGTCTGTTC	234
158	CAAGATCTTCGAAGGACATGAGT	136
117	ATCAAGATCTTCGAAGGACATTG	95
162	CGGTGGTCTGCGATAAGGAT	143
185	ACGATAATATCACACTTCTCCAGTTG	160
577	GCTGTGTGCTGAACGAGGAT	558

1642	CGTCGTTCTCGGATGCTCAC	1623
1587	CGTCGTTCTCGGATGCTCAC	1568
444	GAAGTCTCCAGAAGTATCAGCAGAA	420
690	TCCGTAGAGGTAAGGAGAAGCA	669
464	GACGACGACGCTGATACTGC	445
137	GGAGAGGCTGGCAGTAGAGAA	117
175	TGGAGGTGGAGATAATGATGC	155
488	ACATAAGCATGAGCGAGCAAT	468
525	ACATAAGCATGAGCGAGCAAT	505
380	TCAGAATTGCCTGAACACGTT	360
286	ACGTCATCATTCCAGTTGCG	267
553	ATGGTGTCTTCGGCACTGTG	534
295	GTAGAGCGGTGCGATTAGCC	276
326	TGCGATGAGCGGTTATGTTAG	306
1146	GAGACAGGCGGATGATTGAG	1127
669	GCCTTGAGTCCTTGAGCAGAA	649
1059	GCTTGAATCTCTTGGAATGTGAA	1037
133	AATGTGACGGCGGAAGAAGA	114
1104	TCCTGACAAGTAGTACAACGAAGACTC	1078
1152	TCCTGACAAGTAGTACAACGAAGACTC	1126
192	TCCTGACAAGTAGTACAACGAAGACTC	166
117	GCGACTCCAACCAGTTCCAG	98
270	AACTCGATAACTTGCTAGAGTACGG	246
605	GGACGAGAATGACTGTTCCAA	585
946	CGGTTCCATCATCAGCAAGT	927
868	CGGTTCCATCATCAGCAAGT	849
1122	CAGTCACCAGGTATGGATCACA	1101
1116	CAGTCACCAGGTATGGATCACA	1095
312	CTTCGCAGTCTTCATTGGCA	293
114	ATTAGTTGCTGGCTCGGATG	95
403	TTCATCGTCCAGAGAGACTAACAG	380
1613	AATAGTGATTGCTTCTCGTCGTATCC	1588
127	CCGCATCAGTCGGAAGAAGA	108
133	TACTCATTGGAGCGCAGCCT	114
133	CCATCTCTCAACAATCTGCTCTTC	110
493	GGCACTCTTGGTTGTACGGTT	473
365	ATCGGCTGAGAATGGTGTGG	346
1354	TTACCAGAATCTCATTGTACTGATCC	1329
3115	CAACATGTGTGTGATATTCGCA	3094
174	ACTGTTATTCACCATCGCTGTGATAC	149
359	GCCAGGTTGTGTGGATGGTT	340
361	CCTCACAGGTTTCGACACATCA	341
539	CATTCTTGTAATGTTGAGCGTTG	517
670	CATTCTTGTAATGTTGAGCGTTG	648

539	CATTCTTGTAATGTTGAGCGTTG	517
670	CATTCTTGTAATGTTGAGCGTTG	648
266	CATGTCACGGTAGAAGTAGATCATCA	241
206	ATGAGCCACCGGTTCTTGT	187
644	GGAGACATACGAATGATTAAGCG	622
106	TTGTCGAGAGCCTCTTGACTAGA	84
640	GGCCATACTCAGATAACGAACTCC	617
833	CTGACATTGAACGAGTGAGCA	813
474	CGAACAAGTAGTGAGCAGTGATGA	451
474	CGAACAAGTAGTGAGCAGTGATGA	451
427	TCCATCTTCCAACCATCCAA	408
404	TCCATCTTCCAACCATCCAA	385
909	TGAGGTGATTGGTTGAGAGCA	889
725	TGTTGTGCGAAGTGAGTGTTCG	704
733	TGAGGTGATTGGTTGAGAGCA	713
430	CCGTTGGAAGTTCATCTGTCA	410
1004	CACAGTCGTCACAGAAGAGCAA	983
387	GGTCTGATGGTAGTTGAGTCGTTTCG	363
390	TCTGATGGTAGTTGAGTCGTTTCG	368
149	AGAGTTCTCACACCTCATGCATT	127
125	CGAATGTTGTTAGTGAGTCTCTTCC	101
126	CTTAATCCATCATTATTCCGAA	104
256	GAGCATTGTCGGCAGGATTG	237
173	CAACGAGAATACGTGCAGAGC	153
156	CGTGCTCTCGGAGCTCACTT	137
291	CTCTGTACGTCCGGTCGCTT	272
652	TTCGATCAGACGATTGTAGTTAGG	629
721	CACCATCGTTGAGGCACACA	702
721	CACCATCGTTGAGGCACACA	702
116	GGAGCCAATGACTCGATGAG	97
116	GGAGCCAATGACTCGATGAG	97
117	GAACACGACTGCAGCAATGG	98
303	TGGAAGGACTGGCGAGAAGA	284
420	TGGAAGGACTGGCGAGAAGA	401
420	TGGAAGGACTGGCGAGAAGA	401
744	GAACACGACTGCAGCAATGG	725
224	AATTGTTGGCGACATTGCTC	205
303	TGGAAGGACTGGCGAGAAGA	284
721	CACCATCGTTGAGGCACACA	702
721	CACCATCGTTGAGGCACACA	702
303	TGGAAGGACTGGCGAGAAGA	284
1894	GATCTCGTCCGGAAGGTGAG	1875
1238	TTCATCCGAGACGTGGTAGAC	1218
153	CTGAGACTCGGAACGATGCC	134

978	CCATCCTCGCTTAACATGAGAAGT	955
927	GCTGGTGGCTCGTGAACACT	908
378	GCAGCCTCTTCAACACTCTTCT	357
477	GCAGTGACAACAATAAGGCAATG	455
536	GCAGTGACAACAATAAGGCAATG	514
419	GCAGTGACAACAATAAGGCAATG	397
309	GCAGTGACAACAATAAGGCAATG	287
415	GCAGTGACAACAATAAGGCAATG	393
593	GCAGTGACAACAATAAGGCAATG	571
297	GCAGTGACAACAATAAGGCAATG	275
184	AGAATCCGGTGGCCTGTATG	165
899	CAACGAGGAGGTGGAACAAC	880
794	TTCTAGTGAGTACAAGGCTGGTGA	771
402	TTCTAGTGAGTACAAGGCTGGTGA	379
2269	GTCGTTGTCTGGTTGAGAGTCA	2248
423	CTCATCCGCAGTTGGTTCTC	404
337	AGAGACGGACGAACAGTATGGT	316
176	TCAGTTACGTTGAGATTGACTACCTC	151
454	GTGATACGGCGAACAAGCAA	435
518	GTGATACGGCGAACAAGCAA	499
132	TCACATCTCGGTCAGAATACTCG	110
138	CCATGCTTGTGACGTCTTCTG	118
136	CCTCCTGTGTGCTCGAAGAAG	116
130	TCTGCACCTTGTCGTGAACA	111
704	CGAGACTTGACGCTGACTGA	685
789	CGAGACTTGACGCTGACTGA	770
704	CGAGACTTGACGCTGACTGA	685
789	CGAGACTTGACGCTGACTGA	770
704	CGAGACTTGACGCTGACTGA	685
789	CGAGACTTGACGCTGACTGA	770
150	AAGATTGTCTGCTTCAGTGCGA	129
147	AAGATTGTCTGCTTCAGTGCGA	126
624	TCTAATGATAACAGCATCTCTCCTTG	599
455	ATTCGTCTCTTGATGTTGTCTTGA	432
1022	GCATTAGTCGATCCTTCGAACAGT	999
1151	ATCCATCCGCTTCACTCCTT	1132
216	GCCAGTGAGGTAATGAGAATTAGC	193
286	GGTTGCTTGCCAACATGTCTT	266
198	GCGATTATGTAGCACCATAATCC	176
131	ATAGTTCTGCGGCACGTTGA	112
140	CCACTCAAGATTCTTGACGTTGTCC	116
461	CCAGACAGATACATTGAAGTGAACA	437
841	CAGATAGAAGAAGAGCATTGAGTTGA	816
178	CCATTGATACGATCCAATACGG	157

544	GCGAGTGGCGTTGTAATGAC	525
167	AGCCATCGGACAACGGAGAC	148
477	GTCGTCAGCACTTACTACAATCTCC	453
427	CGTCTATCCACACCTCATCCA	407
539	TGATGCACGATTGAGTTAATCACT	516
487	GGTATCGACCAGATGATATTACGTG	463
445	AACAATCCTCAGCATCTTCATCA	423
616	ACGCTCCTCCATTCTTCAGTT	596
392	GCATAGATAACTGGCAAGTGGAG	370
568	GAATACCTTGACAACATCTTCGTAGA	543
450	GGTAATACCGCCAGTGATGC	431
429	AACAAGGTTCATAGAACAGTCAACTTC	403
257	TGAAGAAGTGCAGAGCAATACAAG	234
128	ACTCCTTAAGCAAGTTGCACTACA	105
734	GAATTCTTCACAGCCTTCGG	715
715	TTGTTTCATCAATTCCGCCAA	696
728	TTGTTTCATCAATTCCGCCAA	709
130	AAGCGAACTTCATTCCACTGA	110
664	TTGTTTCATCAATTCCGCCAA	645
217	TCGTAATCTCTATCAACTTCATCACTTC	190
391	TGAGTTCGCTTCGGTAGGTT	372
351	TGACCATACGAGACGAAGTGC	331
428	TGACCATACGAGACGAAGTGC	408
403	TGACCATACGAGACGAAGTGC	383
963	TCCTCTAGCAATGTCCAACGC	943
440	AGAAGGCAGTGGAGAATCGC	421
371	TCCACTGATCCACTGTCTGTG	352
327	GGTTGGAGGTGTTGAGAGGTAA	306
368	TGAAGAGTAGTGTAGGAGTTAGTGGTG	342
355	AAGGCACAGTCCATCAGAGTG	335
124	CCGGTTGAAGATAGTGTGAGACA	102
247	AGTCACCGAGATAGTTCACAGATG	224
144	TCTCTTGAGTGCAATTCGAGATG	122
1028	AATAAGAGTTCCAAGAATGAGCATG	1004
1034	AATAAGAGTTCCAAGAATGAGCATG	1010
299	CATCGGTAGTCGGCATCGGT	280
561	CATCGGTAGTCGGCATCGGT	542
158	TGGAACAAGAACACACGGAA	139
925	GATGAATGAATGACAATGCGTT	904
605	GAAGCGAATGATAAGAGGATGC	584
159	ACTTACCACTAACCTCCGTTGC	138
1144	TGCTGGAACTCACTTACGGAT	1124
1144	TGCTGGAACTCACTTACGGAT	1124
127	TTGATTAGAGACTCGGCTCGTT	106

140	CACACACACACAGCCTCTTCTTCT	117
222	GCGAATGGATAAGTATGTCGGT	201
711	CATTCCGTCATCTTGTTACC	691
147	TCGTCTGTTGGATGTA	125
278	GCGGAGACACTTGACACAGC	259
725	CCAGATGGTCTTGGTTGTTGT	705
879	CCAGATGGTCTTGGTTGTTGT	859
177	GGTACTGTCCGTCCGATTGTC	157
2226	TCCTCATTCTCATACTTCTTGTGTG	2202
146	TCACCTCGTGCTCATTCTCA	127
530	GGCGATGAAGATTAGGAAGCA	510
517	GGCGATGAAGATTAGGAAGCA	497
1665	GAGATGGACAGAAGTATGGAGCA	1643
374	TATTCTTCCACATGATCTACACGAA	350
534	CGATGGAAGTAGAATGTATGATTGC	510
552	TGGTTGTAGATTGAGTTGTAGAAGGT	527
552	TGGTTGTAGATTGAGTTGTAGAAGGT	527
887	TGAATACCACTGTTGATTGTCTGC	864
313	GGAATGCAGTACTCTCCAACAGA	291
264	CGTGTGAATGAGAACTTGCG	245
1284	GGTCCATCACGAACATCAGAA	1264
2261	CGGCTTCTTCTTATTGAGGATAGG	2238
2272	CGGCTTCTTCTTATTGAGGATAGG	2249
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2199	TGATTCAAGCCTCCTTCCAA	2180
2325	TGATTCAAGCCTCCTTCCAA	2306
255	GCAGTGATGTATCCTAGTTGGCT	233
316	CGACGACGACGACTGAAGTG	297
2109	TGATTCAAGCCTCCTTCCAA	2090
1353	TCCACGATGTACCAGAGTATCTCC	1330
1353	TCCACGATGTACCAGAGTATCTCC	1330
1971	TGATTCAAGCCTCCTTCCAA	1952
264	CGACGACGACTGAAGTGATG	245
120	GTCACCGGACCATCATCATC	101
130	AGGCTCACCGTGTGGAGCTC	111
125	ATTGCATCGACGTCCTCGAC	106
144	TTCCGAATTAGTCTCCGAA	125
510	TGCACTTGAGTTGAACTTATTGCT	487
128	ACGCTAACTGGCTTGCCTTG	109
1021	TTGCGTGTCTATCATACAACCAA	999
224	CCGACTGACGAAGACCACAA	205
748	GACCTGCACACGAGAAGACTTC	727
1247	GAATGCTTCTTCATCTCCACTGA	1225
1292	GAATGCTTCTTCATCTCCACTGA	1270

675	CTTCACCGTCACCACTTCCTT	655
296	TATGGTGGCGGTTGTTGTTG	277
299	TCTGCTCTTACACAACCATCTGC	277
299	TCTGCTCTTACACAACCATCTGC	277
445	GATAATGGAGGTGGAGGTGCT	425
1147	TAATCGGTGACGTTGGTTCA	1128
674	AATCCAGAGTATTCTCCTTCCGT	652
750	TCCTGGAAGACCTCGATGGC	731
124	CTTGAACCTTCGTGGAACCG	105
208	CTGGACAATGGCAATGAATG	189
166	CGAATCCTCCAGCTCGTCGT	147
310	AACTGCTGGAGGCGACGATT	291
1039	AATCTTGGTGCGGTGTCGTT	1020
1045	AATCTTGGTGCGGTGTCGTT	1026
1031	AATCTTGGTGCGGTGTCGTT	1012
293	GGAATGACTACAGCCGAAGGA	273
2263	CACACTCCATCAACGCTACGAC	2242
2345	CACACTCCATCAACGCTACGAC	2324
951	TTGTCTTGGAGTTGTGGTAGTTGT	928
198	ACCTGATAACGCCACGGAAT	179
528	AATCTGAACACCTCCACCTGACTG	505
311	GCTGTCAGAACATCCAACGG	292
311	GCTGTCAGAACATCCAACGG	292
1445	TGAACAACGTAGTTGGCGTACTG	1423
636	GGAAGAATCCTGACATTGACATCA	613
2831	CGGTAGCGGTCCAGTAGGTT	2812
238	CCTGAGAGAATCATAATAATCAACACAA	211
214	GGAGCCTCTCTTCGGAGTGG	195
591	TGACTTGTCCATTGACCGTTG	571
744	TGACTTGTCCATTGACCGTTG	724
214	GGAGCCTCTCTTCGGAGTGG	195
159	CGAACAGCTACTCCTCCACTTCTC	136
411	TCTCAAGCCATCCACTTCCTC	391
289	TGAGGACACTGCGGAGATGA	270
499	AGCGTCTTCGATTCGTTGTC	480
292	CAACCGATTCTGATACTCCTGA	270
160	TGGTGCCGTAGCAGACGTAA	141
357	TCACCGATTGAACATCTGAGG	337
726	GCAGATACTTGAACCGTGAG	706
190	GCATTACACGGAACGCTCTT	171
483	TGGAGCACCGATGAAGCAAG	464
503	TGGAGCACCGATGAAGCAAG	484
930	TGGTGTGGTTGTTGTGGTTG	911
902	GTCGTTGGAGTCGTTGTAGTGG	881

902	GTCGTTGGAGTCGTTGTAGTGG	881
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902	GTCGTTGGAGTCGTTGTAGTGG	881
528	ACTGAAGATGTAATAACTGGCGACT	504
1008	AGCGGATGTAGTAGTGGTTGTTG	986
857	GCCGCTACAACTGACGACGT	838
857	GCCGCTACAACTGACGACGT	838
1100	GCGAGAACAGCGTAGAGACAG	1080
935	GGAGAAGTGAAGAAGGAATCGTT	913
934	GGAGAAGTGAAGAAGGAATCGTT	912
186	CCATCCAGCTGAGAAGTAGACAA	164
157	GCAACCTCCGAGAGCATAAGC	137
359	GCTAAGAGCCTCCACGGATC	340
491	GCTAAGAGCCTCCACGGATC	472
450	GCTAAGAGCCTCCACGGATC	431
158	GACTCCTGTGATGCTCTGCTG	138
165	TCGGAACATGACAATACAGGATT	143
2028	GGCTCCTCCAATTATCAATTG	2007
430	GGAGGAGAGTGAAGCAGAGGA	410
626	CAGAAGTACACGATACAGACATACAG	600
243	CATTGATGTGTCTACGATTAACACAA	218
798	GGTGATAAGATGAAGAACGGCAA	776
373	CTACGATCAGGAGAACACGACTAG	350
690	CGGTTCAATAATCGGATCAGC	670
608	CAATAGACGGCGCTTATGATCC	587
207	GCAGGTCGGAGATGTGTCGT	188
153	CCGAGCAGCATTGACGAC	134
972	GACGTCTGTTGAATGATTGGAA	951
1033	GGTCTCGCTTCATTATCCAACG	1012
1764	GAAGTGAAGGCAGTGATGACAG	1743
468	CCAAGTTGGCTCATCGTCTT	449
1405	AAGTGAGAACATTGACAGGAGTGA	1382
1350	AGTGAGAACATTGACAGGAGTGATAG	1325
728	CCTCGTTCACAATTCCTCCAC	708
1006	TTCGAGTATCTGTGTTAAGGACTCTGA	980
309	CAGCTGAGAGGTGTTACGAAGG	288
245	TGAGAATCGACGAAGAGATCACTT	222
949	CCTCCGACCTTGATTCCGAT	930
849	CACGAAGAATAGCGGTATATACATCA	824
574	TTATAGTTCTCAATGTTGTTCTCGTTG	548
307	AACGGTCTGGTCCAGGTGTA	288
978	TGGCGGAAGTGGTCTCAAGT	959
1503	CGGTAGTCGTACTCGGTCCTT	1483
378	GCAACAATGACAGCAAGAAGG	358

400	GCAACAATGACAGCAAGAAGG	380
392	CAGGCACGACACGACTCTTC	373
203	CGATCTCCTAGAGCAGCATACATC	180
694	CGAGCACTGTTCTGGAGCAC	675
694	CGAGCACTGTTCTGGAGCAC	675
791	CCTTGTCACGGAAC TTGTCG	772
489	GCACTCGATGACTATCATAACTAGCA	464
145	ACCTGCTCGCACCACAGAAC	126
483	TGAGTTGTATTCGTGAATGTCGTT	460
355	TGAGTTGTATTCGTGAATGTCGTT	332
355	TGAGTTGTATTCGTGAATGTCGTT	332
305	TGAGTTGTATTCGTGAATGTCGTT	282
1016	GGAAGTGACATTCGAGAACGC	996
124	CCAGAGGACAGTCTTCGCAT	105
1010	GGAAGTGACATTCGAGAACGC	990
695	GGAAGTGACATTCGAGAACGC	675
138	TGAATGGATGGATGGACACAAG	117
136	AGCTTCTCCGTCCTTG CAGA	117
985	CAGTCACCATCATCGTCGTTG	965
814	CAGTCACCATCATCGTCGTTG	794
1325	CATTCGGTTAGCGTAGGCAT	1306
660	GGAGTTGTTGTCGTCAGATTGG	639
1073	TCCTGTTACGTTCCACTGC	1054
554	CATCACAGCACCAATCAACGG	534
472	CGAATGATGGCTGGAGGAAT	453
455	CGAATGATGGCTGGAGGAAT	436
175	TGTCCGTCTTCTTCTCCTTCA	155
757	TGGACCGTTAATAGAGACTACTGCT	733
1071	TGGACCGTTAATAGAGACTACTGCT	1047
773	TGGACCGTTAATAGAGACTACTGCT	749
409	ATTATGGTGTGCGGACGGTA	390
217	CGAGTGGAATGCGTTGAGGT	198
139	CGAGTGGAATGCGTTGAGGT	120
815	GTTGGTCCGAATGAGCCGTT	796
1025	CCGAAGAGGTGTCTGGTTGT	1006
1020	CCGAAGAGGTGTCTGGTTGT	1001
1124	CCGAAGAGGTGTCTGGTTGT	1105
233	GATAGAAGCAGCAAGGTCGTAGA	211
154	AGTGACTGGTGACGAAGCAGT	134
700	TCTCGCACCGTGTAATGTATGTC	678
122	GAGTCATGCTGTGGTTGTGGTC	101
1123	CACTACGTCCGAGTTGAGAGC	1103
361	GGTAGTCAGCTTCGGTTACTACTCC	337
1096	TGAGAGTTATCTGGTCGGTGGT	1075

376	TTATACTGCTGGCTTCATGGC	356
93	GGCATCTAGTGCAGAGTTGGA	73
93	GGCATCTAGTGCAGAGTTGGA	73
111	AAGGCTTGATTGAGATCACATGA	89
421	GGTTGATTGATCGAAGTGATGG	400
323	AGATAGGCAACCGCTTCCTT	304
333	CACTATGGAGACGCCGAGGA	314
740	AAGTCCATTGTTATTCCATCGG	719
91	AGGTGGCGGAGAGTTGGAGT	72
860	TGATGGTGAGCTGATTGGAA	841
346	AAGGTGTAGCCAAGTCGAA	327
325	GAAGGATGGTGGAGTATTCATTG	303
278	GAAGGATGGTGGAGTATTCATTG	256
1393	TTGATGTAGAAAGTTGCCACGAGTT	1370
1420	TTGATGTAGAAAGTTGCCACGAGTT	1397
1338	TTGATGTAGAAAGTTGCCACGAGTT	1315
1375	TTGATGTAGAAAGTTGCCACGAGTT	1352
1411	TTGATGTAGAAAGTTGCCACGAGTT	1388
1393	TTGATGTAGAAAGTTGCCACGAGTT	1370
1531	TTGATGTAGAAAGTTGCCACGAGTT	1508
1351	TTGATGTAGAAAGTTGCCACGAGTT	1328
730	CACGGTAGTCACGAGCGAAG	711
859	CACGGTAGTCACGAGCGAAG	840
865	CACGGTAGTCACGAGCGAAG	846
213	ACCACGCTTGTTATGGTTCTAGA	191
1015	ATGCTGTTGTGACTCTTGGCTGT	993
1011	ATGCTGTTGTGACTCTTGGCTGT	989
1015	ATGCTGTTGTGACTCTTGGCTGT	993
314	TTGCTACTGGATATACTGTTCTGAA	289
180	GTATCGTCGCGACGAAGCAG	161
602	TCGCCGTATGGAGATAATGC	583
120	GATTGGTCCACGCACTGTTT	101
251	TCGTGAGCCAGCCTACAATG	232
590	GCGGCTAACTCAATCAATGC	571
219	CAATGAATTACACCATCACATCCTC	195
434	GCATTGCAAGTCGTTAATGTCAA	412
1886	GCCACTGTCTTGCTGTTGGA	1867
420	GATGTTAGAGAATGTGACGAATGAGT	395
410	GATGTTAGAGAATGTGACGAATGAGT	385
836	ATTGTGGAGGCTGTATTCGG	817
147	GTTCTGTTGGAGTCATTGAGTGAT	124
1615	GGAGCATGGCTAGTTCATAGGT	1594
1011	AACATCAGGCAGTGTGAATCG	991
347	CTGGCTTGACGATGATGAGAG	327

432	CTGGCTTGACGATGATGAGAG	412
344	AACAAGTCTTCCTCGTGATGGT	323
1524	ATCACTTAGAGCCACGGACAA	1504
1523	ATCACTTAGAGCCACGGACAA	1503
1855	CAGAAGCAACCAAGTCGCAT	1836
1793	CGTGTTCAAGGCTGGCATAG	1774
2363	GCTCCAAGTGACGATGAACC	2344
1047	GCACTACAGTCGGCGTATCC	1028
1105	GCACTACAGTCGGCGTATCC	1086
1329	AATGTTGCGGTGCTGGTTGA	1310
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1529	TTGGTGTGCTGTTGTGGTG	1510
1294	TTGGTGTGCTGTTGTGGTG	1275
424	AATGTTGCGGTGCTGGTTGA	405
1571	TTGGTGTGCTGTTGTGGTG	1552
5291	GCTTCTGAGTGTGTTGCGATGA	5270
404	CGAATGGACAACGGATCATCT	384
213	CTTGGTGTGTATCTCTTCTGTGG	190
213	CTTGGTGTGTATCTCTTCTGTGG	190
127	CCTTAAGCCACTTGTCGAAGTTC	105
323	TCGAAGGTCTCTTGCTTGGC	304
323	TCGAAGGTCTCTTGCTTGGC	304
223	TCGGCCACCTCTATCATCAC	204
223	TCGGCCACCTCTATCATCAC	204
1162	GATTAACCTGCCATCCACGAA	1142
1462	GATTAACCTGCCATCCACGAA	1442
799	GCGAAGCAGATAGTAGGTCCAC	778
575	CATTACAGTGACGCCTCCGA	556
658	GCTAGCCACTTGGTTGATGAAG	637
753	CTCGTCAGCGTCGTAGAACTC	733
1072	CTCGTCAGCGTCGTAGAACTC	1052
156	CTCGTCAGCGTCGTAGAACTC	136
416	GATTGTGATGGTGGCGGTGT	397
157	TCCGAGAATTCCAACAGCTC	138
1857	GTATCTTGCCTTGTCTGTGC	1837
1377	GCAGAGTCCTATCTTGTAGATGTGT	1351
179	TTGGATTGATGTTGGAGGTGTTT	157
267	TTGGATTGATGTTGGAGGTGTTT	245
180	TTGGATTGATGTTGGAGGTGTTT	158
110	TTGGATTGATGTTGGAGGTGTTT	88
179	TTGGATTGATGTTGGAGGTGTTT	157
267	TTGGATTGATGTTGGAGGTGTTT	245
180	TTGGATTGATGTTGGAGGTGTTT	158

110 TTGGATTGATGTTGGAGGTGTT	88
325 CGGATTGTAGTCATCGTTCTGG	304
421 TTCCATAGTGGAGATCAACGG	401
930 AGGCTGCTATCCTGGAGTGTT	910
930 AGGCTGCTATCCTGGAGTGTT	910
960 CGTGAGTGGAAGAAGCGAAT	941
139 TCGATTACTGGCTTGTGAACC	119
586 TAGCCGCTACCGTAGCCAGT	567
586 TAGCCGCTACCGTAGCCAGT	567
555 AGCAGCGATTCCGAATCCAA	536
1294 GCTTCTCTGACTCCACGATACG	1273
1018 GCTTCTCTGACTCCACGATACG	997
852 CACACTTGTTCCGTAAGAGAAGATG	828
899 ACACATGCTTGAATATCATTACCAA	875
874 CGATGCTATATGCCATTGTTGA	853
623 GCCAGGAAGAACGGAGTGTT	604
330 AGAAGGATCACAGAAGTTGGCA	309
385 GCTCGTGTTGTCTCCAGTTCA	365
548 CGAGCAATATGTCCAGCTAGC	528
163 TCATACGAGCACGTCGGAAT	144
574 AATAAGTTCCATCGGTCACAGG	553
212 GCATTCAAGTTGGAGCTGGTC	193
211 TCTTGTTACGGAGGTTATTGTCG	189
344 TGAGCACTGACTTCATTGTTGG	323
662 GATAGACTTAACCAAGCAACAGTGTT	637
430 GATCTTCAGTGTAGACAGCGGAA	408
3270 TTCAGAGAGGTGTAGTGATGAGAGC	3246
1136 CGGCGAGTTGAGTATTGAGGAG	1115
3360 TTCAGAGAGGTGTAGTGATGAGAGC	3336
138 ACGGAGATGAGACCAAGTGAAGT	117
371 CGTCTCCAATTGACAACTCGA	351
238 CGGCGAGCACCTTAATTGATG	218
240 ATGGATGATGGACCGTCGTC	221
123 CCTTCCATCTATTGCCTTCCTG	102
206 GGTTCAAGTTCCACGACAAG	187
448 GATGACGAAGAGTGTGCAGCT	428
174 TCCATTCAAGATGCAGTCATTC	153
1406 TTAAGTCTCCAGGCTTGATGA	1386
1408 TTAAGTCTCCAGGCTTGATGA	1388
452 TCCTACAATTCTCTGAGTTCCGA	430
81 GTCAGTATTCGCCATCTTCTTCG	59
1220 GCATCTAGCACCAGGTTACGC	1200
358 GGTTGAAGAGGAGCACGTCTAC	337
298 GATGATGGCGATTCCGAGGA	279

164	GGAATTATCGTTGGTAGCAGAGTC	141
133	GCCTCTTAGCGGACTCATACG	113
129	GGTTAGAGACGCGTCCTGTACA	108
637	AACCAGAGAAGCACAGAAGGATT	615
1357	CATCGTGTGCTGGTATATCCG	1337
146	CCATCTTGATCCAACTCCGTGA	125
587	TTGTTGCCTGTCGCTTCCAT	568
1237	TCACATGAACTTGGATGTTATCG	1215
518	GGACGGTCAGTCTTGTAGTGATG	496
467	GTTCCGGTGCAATGAACAGAGT	447
834	AATATAGGTGAAGTGTGAGATTCGG	810
1067	TTCAGACATCGATTGATAACGC	1046
1247	CGTGGCTCTATCGTAGTTATTCGTG	1223
1247	CGTGGCTCTATCGTAGTTATTCGTG	1223
785	GCATCCTTCAGTTCTTGAGTATTGTAC	759
764	ATGCTTCTTCTCACAGTCGGA	744
363	ATGCTTCTTCTCACAGTCGGA	343
755	ATGCTTCTTCTCACAGTCGGA	735
482	AATGCTGTACATCCTAACGGTATG	459
241	GTGCAGAGTGTTCCGGTGAA	222
195	GACTGCCGAGGTGACAGACT	176
1200	CTGATTGATGGAGGCGTGAT	1181
193	TGGAGATGAACGAGAGTGTGAA	172
349	CAACGGAATAACAAGGACGA	329
122	TCTCTCCAACCTTGCTACCTGCT	101
269	TGATGAATAATCCATGATCACGAA	246
599	TCGGCTTCCAGTGAGATTCC	580
125	GCCGCCTTCGAATGTATACTATC	103
371	GTTACGGAGCGACAATAGC	352
711	TTGAGGCACAGAGATCACAGTATC	688
2372	ATGCGATGCGTTGATTGGTT	2353
750	GTGGAAGGATGAATAAGCAAGG	729
1665	ATGCGATGCGTTGATTGGTT	1646
707	GTGGAAGGATGAATAAGCAAGG	686
1054	GCTCGCCGATGAGATAGTCA	1035
554	TGTGAATCGACTCTCCGGAA	535
558	GAGAAGAAGGTGCTGAGTGTCG	537
323	CGCCTCACTCACTCAACGATT	303
578	CCTGATGAACTTGTCGTAGATGGT	555
899	CCTGATGAACTTGTCGTAGATGGT	876
799	CCTGATGAACTTGTCGTAGATGGT	776
332	TGTTGGCTCAGGTAGTTCGG	313
1794	GTGGTGCTGCCTATGGAACA	1775
846	TGACCATTCTGTATCTATCTCCTCTC	820

1174	GGTGCTGCGGTTGATTGTAG	1155
269	AGAGATATGTCCAGGTAGACTAGATGTG	242
258	TTATTGACATCTCGAGGTCCTTGACT	232
1132	GGCTCATTGAAGTCGATACTCCA	1110
281	TTATTGACATCTCGAGGTCCTTGACT	255
356	GCACGATACATGTTGTTACACGA	334
298	TGGTATTCTTGTAGGATGTCGCA	276
465	TTCTCTGTGTTCTGGATCTTGT	443
276	CTCCTCCTCGTCCTCGTCCT	257
157	CGGCGGCAACTACTTCAGCT	138
706	AGATCGAATTCCTTGCTCCA	687
617	CTTGGCAGGTAGAATAAGTCACTG	594
267	TCTAATCCACTCACGCTTAATCG	245
352	AATTGGCAACAGTTCGCAAT	333
308	ACGATAATAATGAGATATTGGTAATTGC	281
190	TCACCGCATGTCAGTTCTTCA	170
462	ATCTTCTTCCTCCATTCGTTGAC	440
467	ATCTTCTTCCTCCATTCGTTGAC	445
508	ATCTTCTTCCTCCATTCGTTGAC	486
467	ATCTTCTTCCTCCATTCGTTGAC	445
384	CTGCGATCACGGCTTCTGTC	365
357	CGGAGAGGAGTGGAAGATAGTGAT	334
210	ACGAGCACGGACACCACAGA	191
151	GTTGAACGCCTTGTCGGATG	132
226	TGATGGTGATGGCAGTCGTC	207
174	CCAGCATCACATATCACACCA	154
325	CCAGCATCACATATCACACCA	305
508	TCTCCTTGCATAGAAGACTGACAA	485
508	TCTCCTTGCATAGAAGACTGACAA	485
677	AGCACTGTCTCCTTCACCACTG	656
248	CACCGAGAGCCGAGAAGAGA	229
176	GCCTGTGTTAGCCTCTCAA	157
211	GTATTGCCTGTGTTAGCCTCTCC	189
622	CATTCCGAGTAAGCATCCGA	603
620	CATTCCGAGTAAGCATCCGA	601
643	AATGTATCGGCTCTGATGTGC	623
480	GCAGAAGGAGGTGAGAACGGA	460
791	GCTTCCTACCATTACGAATCCAG	769
1071	CGATTGTTGTGCTTGTGCTT	1052
674	TCTAGGAGTTCATCGAATAATTCTGA	649
1325	ACGTGTCTTGGCAGCTCTTCT	1305
390	ATTCTTGTGGTTCCGCAGGT	371
355	TTCGTTGAGCAGGCTTCTTCT	335
162	AGAAGGTGCAATTGTTAGGATTCC	139

258	GCTCCAACGACTTCAGGTCAC	236
1115	CACTTGGCTTCTGCGGATTC	1096
146	CCATTCTGTGGAACACACCTC	126
177	ATTGTACTTCTGTGGATGTTGGAG	154
905	TTGTTGACCGAAGAGTTGATTG	884
1136	GAATGACTGGAATCGGCTCTT	1116
1173	GAATGACTGGAATCGGCTCTT	1153
157	GCAGCATAGACTCCGTAGGCA	137
554	TGATTATCAACAGTGTTATTATCAGCAC	527
120	GCAATCAGTCTGCGGCTCTC	101
144	ATCTTCGAGTTGCGCAGCTC	125
221	CATACTCGTAATCTTCCGCATAGG	198
519	CATACTCGTAATCTTCCGCATAGG	496
1016	AGAAGTGTCGGTTGAGGTGTGA	995
1174	AGAAGTGTCGGTTGAGGTGTGA	1153
1046	AGAAGTGTCGGTTGAGGTGTGA	1025
637	GTTCTCAGCCAGCATTCCAT	618
1521	TGATAAGCAATCTCATTAGGTACA	1497
275	CGAAGAAGGCTTATGGTATTGC	254
597	ATACTTATTCGGTACAATGACACAGAA	571
275	CGAAGAAGGCTTATGGTATTGC	254
593	CTCATCATCTAGTTGAATAGTTGGCT	568
363	AGGATGATAGCCGAGTGTGG	344
1280	CACGGATGTATTCACCACGA	1261
372	ATTCCTTCAACGGTTCATCG	353
557	AGGACTGGAGCATTGACACG	538
109	AATCCATTGCTCCGGCTCTA	90
336	GAAGACGGACGGTAGAGGATT	316
416	GAAGACGGACGGTAGAGGATT	396
147	TGAAGTGAGCTTGTTGTGGCT	127
147	TGAAGTGAGCTTGTTGTGGCT	127
436	TATCCGAAGCAATGAAGTAGGTAA	413
435	CAGACTTGACGGCAATGTCG	416
305	GAGATTGTTGTGGTTGTTGAAGG	283
616	AAGTTGCTGTGTCGAGTGCTAA	595
888	TCCACGTATCTGGCTATTACTCC	866
454	GGCCATTGCTCGTACATGTC	435
1063	CAGCCGAAGAACTTGCCAAT	1044
212	GGCCATTGCTCGTACATGTC	193
1463	TGATTGATTGTTGATGGACTCTGAC	1439
1322	CGATTGAGACCGCATTGGAC	1303
1330	GTGATCCTTCACTGATAACTTCCAG	1306
1216	GTGATCCTTCACTGATAACTTCCAG	1192
1259	GTGATCCTTCACTGATAACTTCCAG	1235

1314	GTGATCCTTCACTGATAACTTCCAG	1290
1259	GTGATCCTTCACTGATAACTTCCAG	1235
1087	GTGATCCTTCACTGATAACTTCCAG	1063
1002	TGAAGAGTAGAGTGGAGGTGTGGT	979
993	TGAAGAGTAGAGTGGAGGTGTGGT	970
1261	GAGTTATTCTCGGAAGATACACAGATC	1235
814	GAGTTATTCTCGGAAGATACACAGATC	788
513	GGACAGACGAGTGCACAGC	494
417	AGCAAGTGAACGGTCGGTGT	398
417	AGCAAGTGAACGGTCGGTGT	398
289	AGCAAGTGAACGGTCGGTGT	270
289	AGCAAGTGAACGGTCGGTGT	270
147	CGTTGTCTCCAATACAGTCCTCT	125
122	GCAAGATGAACGGAGGAACACA	101
227	TGGCGTTCGGATACAACAGC	208
161	GGCCTTGGAACATCATGGTT	142
186	TGTGAATCCGTTGCTATGAAGA	165
192	AAGGTAGATGAGCGTATGAAGTGAT	168
279	GCTTAGAGACAACATGGCTACACC	256
233	GCTTAGAGACAACATGGCTACACC	210
324	GCTTCCAGTGCTTCTTCGTAA	304
461	CGGTGTTGGTTCATTACTTCG	441
428	CGGTGTTGGTTCATTACTTCG	408
224	ATGAACGGACGAACGTGAGT	205
146	TGCTCTCTGTGTTCTCCGTTT	125
1073	GGAACGATGTAGACCTTGCG	1054
466	TTCTTCTGGCGATTCTTCTACG	445
127	ATCCTCCAGATCGTCCACCA	108
128	ACCTCCACCTCCACCTCTGC	109
340	GAGTTATGAAGAACTGAGATCCGTTAG	314
138	GAGTTATGAAGAACTGAGATCCGTTAG	112
129	GCGATGACGTTTATTCCGTT	110
2921	CTTGTCTGTGTTGGTGCCGAT	2902
2810	CTTGTCTGTGTTGGTGCCGAT	2791
3146	TTGGTTGCTTCACATTCCGA	3127
3257	TTGGTTGCTTCACATTCCGA	3238
3263	TTGGTTGCTTCACATTCCGA	3244
2921	CTTGTCTGTGTTGGTGCCGAT	2902
2810	CTTGTCTGTGTTGGTGCCGAT	2791
3152	TTGGTTGCTTCACATTCCGA	3133
371	CCAGGTTCTCCGTCAAGTCC	352
371	CCAGGTTCTCCGTCAAGTCC	352
235	GATCTCCGCATATCTTGACAGG	214
145	AACTGTAGTTGGAGTTATTGGAAGA	120

738	TTCTTGTGGTGGTTGTTGAGCA	717
587	CCATGTCTCAGAGATCCGTCTT	566
788	TCGTGGATTGCTGTGTCGTA	769
815	GGAAGAATGATGATGACCAGTTG	793
212	AAGATGACGAGCCGCCAGAT	193
213	AAGATGACGAGCCGCCAGAT	194
821	CGATTGCTGTCATTACATCTTCG	799
1437	ATCAACCAATACATCATCCACCAG	1414
1060	TTGTTGGATGAGTTGAAGTGGA	1039
1599	ATTGTGGAACGGCTGTCTGT	1580
2167	TGCTCACAGATTCGCCATTG	2148
2167	TGCTCACAGATTCGCCATTG	2148
2182	TGCTCACAGATTCGCCATTG	2163
893	GGTGAGGCACACACGAGCAC	874
893	GGTGAGGCACACACGAGCAC	874
474	GGTGGTGGATGAGATGGATG	455
1051	AGTGTAGGCTCGTCGTCGTC	1032
239	TTAGCCAGACGGACGGTGTG	220
127	CACAACTGCCTCATCTTCCAC	107
278	GAAGAGCGGCGTGTAGACAT	259
158	GCTTGAACTGTCTTGACTGACTGTT	134
2317	CTCGGACTGCTACTGATGCTG	2297
2050	CTCGGACTGCTACTGATGCTG	2030
2218	CTCGGACTGCTACTGATGCTG	2198
4113	AGCAGTGGTAGTTGGAATAGGAAG	4090
1267	CCTCGTTCTCGTTCTCCACAT	1247
573	AGCAGTGGTAGTTGGAATAGGAAG	550
621	GTTATTACTTGATGATGGTTCGTGA	597
191	CTCGTTCCGCATCTTCCAAT	172
111	AGACAAGGTAACAGTAGCTTCTTCG	87
989	CGAAGCTCTAAGCGCACCAT	970
1057	CGAAGCTCTAAGCGCACCAT	1038
437	CGAAGCTCTAAGCGCACCAT	418
350	CGAAGCTCTAAGCGCACCAT	331
737	TCATTGGTTGGCGGAGGACT	718
522	GCTGGCTTATCGGCTTGGA	503
142	TCTCTCTCTCCACTTGAACACTCTT	118
120	ATTCGGTGGCCAAGTGTCAC	101
268	CGGATGTGTGGTAGCCTGAG	249
1593	ATGGATCGTTGGTGACTTCG	1574
151	CAGGTGGCAAGTTATTCATTCC	130
1784	ATGGATCGTTGGTGACTTCG	1765
912	GCAAGTTGCCACAGGTAGAGAAGT	889
800	GAGATTCCGAGTCCGCTTCC	781

1778	AGACATTCCGTTTCATTCCGA	1759
2646	AGACATTCCGTTTCATTCCGA	2627
1778	AGACATTCCGTTTCATTCCGA	1759
649	TCTGACCGCTATTATCTGACGAA	627
226	CCTTCTGGAACGCTCAACAG	207
2671	TGTTCTTCCTCTACGGCTTG	2651
103	TAGCAACAGTGGAGACTGCCA	83
293	CAATACCGCATGAACAGCAA	274
404	TCTAATGGCTCACGAATAATGTTG	381
443	CCTGTGCTCTTAACAAGTTCTTCG	420
368	CCTGTGCTCTTAACAAGTTCTTCG	345
1124	CGTTATCTATGTTCTGCCTTCCAA	1101
942	GAGACCGAGCGATCCGTATC	923
1183	GAGACCGAGCGATCCGTATC	1164
1246	GAGACCGAGCGATCCGTATC	1227
2348	GGTGTGTCATCTGGAAGCG	2329
143	AGAGGCGGCGACTTATCTCC	124
2784	GCTGGAGACAATGGAGGTTCA	2764
1241	GGACGAATACGAGATACACAACGG	1218
396	TCTTGCCGTCCTCCTTACA	377
367	AGATACAATACTTGACAACCTCCGAGT	341
1190	AGATTCAATGAGGCAGAGCAGTT	1168
3074	CATCTGAACCTCGTGAGCATCT	3053
3086	CATCTGAACCTCGTGAGCATCT	3065
1519	TTGTTGGCAGAGCAGTCGTT	1500
576	CTTCTTCCTGAGCAGATCCAAC	555
520	CTTCTTCCTGAGCAGATCCAAC	499
122	CATGAATACGGTAGGCTGCTG	102
127	GTAGTTGTCTCGTCTTCCATCCTG	104
353	AACGACAATAAGACCTACACCAAGT	329
162	GCATACCTATAAGCCGATATGTCCT	138
121	CACACACACACATTACGCA	102
129	GCCTACCGTAGTCAGTCAACCA	108
344	CCAGTAGTCCTTCCACGTCCAG	323
137	GCCACCTCACAAGTATTGAGATC	115
164	CTAACACCTCCGTGCACGTC	145
148	TTGACAATCTTATCAGCTTGAGTTG	124
151	GCTAGTAGTGTGCGGCACTGC	131
245	AGCACCAGCAGCAGCCTACC	226
563	TCCGTGTATCCATCCTCAGG	544
240	GTCTCCATAGACGCCGGAGT	221
768	CGGTTGTGGTGTAGTTGTGGT	748
774	GGAAGTCGTGTTGTGTATGTTCA	752
158	ACATTGTCATTAGAGGCTACATGG	135

176	ACATTGTCATTAGAGGCTACATGG	153
201	ACGGCTCCTGATGGAACGAT	182
201	ACGGCTCCTGATGGAACGAT	182
705	TCGTATTGTGTCGTGGTGGA	686
778	TCGTATTGTGTCGTGGTGGA	759
493	GCTGTTGAACGCTAGTTGACGA	472
141	GCAGATGAGCACACATACATATCCG	117
685	CTCTCCTGAATGCTATTGAACACTT	661
275	TCAGTAGTAGAAGTCAAGTGTCCGTT	250
553	CAAGTTCAGTCATCATTCCAA	532
149	GCACTAGAAGCTGCTTGAAGTGC	127
249	CCTATTGACTATTGACCACTGAACA	225
681	GCTACGCAACTATGTCCTGATGG	659
153	TCTCACAGTGCTTGTCTTCTGACT	130
424	CGCAACGAATTGTGAATCCA	405
175	CGAGGATTGAGAATTGCGTT	156
246	TCAGTTGAGAGACGAGAAGTCATC	223
782	GAATTGGTCGAGCATAATCAAGA	760
1097	TCCTCCAACATTAACAGCAACA	1076
1158	GTGGTAACTTCGGTGATGGTG	1138
505	ACCATTGCAACCATGTTAATGTATG	481
294	CGGCTGATCTCATTGATGGA	275
2362	GTAACGACATCAGCACATCCAG	2341
1001	GATTGAACACAACCTTCGTCTCG	980
511	CACGTCATCCTTGAGCACTG	492
228	TCTCCTGTCCGCTTCCTTCC	209
228	TCTCCTGTCCGCTTCCTTCC	209
124	GCATACCTCCGATTCCACTG	105
244	CTTGCTCTCCATCCGTGCTT	225
373	CGTTATTCTGGCATTGGAAGTCA	351
228	CGATGAACGGAAGCAGATTG	209
2182	GGCTGAGTCCAATCATTGACG	2162
2276	GGCTGAGTCCAATCATTGACG	2256
2272	GGCTGAGTCCAATCATTGACG	2252
1091	TGTATAGTCTGCCGTCAAGCC	1071
1401	TGTATAGTCTGCCGTCAAGCC	1381
1132	TGTATAGTCTGCCGTCAAGCC	1112
403	AGCCGACGACTCCAATCAGG	384
354	CCTCCATTGTAAGCAGCATTAGTTG	330
453	CCTCCATTGTAAGCAGCATTAGTTG	429
412	CCTCCATTGTAAGCAGCATTAGTTG	388
1390	CAACTGTAGGATTAGCCATAGCAA	1367
221	AGTGAGAAGCCACTGGCAGTG	201
134	GACTGACAGGTGCGGTCGTC	115

136	CGCCACTGTTACATCGTGTC	116
2742	TGTAGGTTCTGGAATCTGTGAGG	2721
249	AGAAGAGCGAGCGTTGGATT	230
1600	GAGAACATTGGCGACGGTAG	1581
191	CGGACTTCAATATGATCTTCTTCGG	167
200	CGGACTTCAATATGATCTTCTTCGG	176
152	TCAAGACTCATCTGTGCCGAA	132
707	CGATGAAGTGGCACTGAGCA	688
705	TTGCTTCCGACATCTACCGA	686
821	GCTGAGTACCGTGTATAGTTGTATGC	796
474	AACTGAGAAGCCAACGGTTCT	454
151	GCGAATGGTGTGCTTGATGTC	131
227	GCGAATGGTGTGCTTGATGTC	207
390	TCACTTGCTCTGGACCGTTG	371
343	GACATCGGAATTGTGATGGTTC	322
128	TCGAGTAGATGGAAGTGCGAT	108
967	CATGATAGAAGCGGTAGAATGTGA	944
173	TCGAGTAGATGGAAGTGCGAT	153
177	AGTCTCTGGCTCAGTGGCTTG	157
534	CCGTTCCGTATGAAGCGTGA	515
241	GTGATGAGGACGAACTGGCA	222
166	GCAACAACAACCTGGCGTCAT	147
141	ACTGCCCACTGCTTCATCC	122
182	TGAATCCAATACGGCAGGCT	163
115	CGTCATAAGCATTGTAAGGAGTGTC	90
1177	GGTACTGTAGATGAGTCTTGAATTGAGA	1150
147	GAATCGTTGAATAGTTGGAGGAA	125
236	TTGACGTGATCCAGATGTCTTC	215
1351	TGCGGACCACATCTTACACTCT	1330
1314	TGCGGACCACATCTTACACTCT	1293
304	GTGTAATGGACAGACGACAAGGC	282
1096	TACATTCAACACCGACTAATCCTC	1073
1162	TACATTCAACACCGACTAATCCTC	1139
586	GCAACAATGAAGATAACACTGAACTC	561
355	CCACAACAACGACAATAGCG	336
355	CCACAACAACGACAATAGCG	336
91	ACCAGTTGACCACAGTTGTACG	70
750	CGAGACCAACATAATCATTACATCG	726
171	CGAGACCAACATAATCATTACATCG	147
236	TGTCGTCTTCAATGAGCTGATGA	214
1314	TGGTAAGTTGTAGATAGCGGCTT	1292
1314	TGGTAAGTTGTAGATAGCGGCTT	1292
2030	CGTTCTCGTCGCTCTCTGAT	2011
1410	CGTTCTCGTCGCTCTCTGAT	1391

734	TGATTGGTATGCGGACAGAA	715
1875	CGAACGCAGTGATGACGAAT	1856
1875	CGAACGCAGTGATGACGAAT	1856
519	ATCTTCCATTGCTGCGGTCA	500
252	GCTGCTGAGGCTGTTGAAGA	233
462	CGTGTATGCTTCCAACCAGAG	442
838	CCACACTGTCAGATCCTTCTCCT	816
281	CCTTGTTCCAGAGACCATCG	262
275	GGCTTGGCAGTCTTGAACGG	256
1272	CGTGTGCTCATTACATCCTC	1252
839	CACACTTGAGCATCTCCGAATC	818
890	CACACTTGAGCATCTCCGAATC	869
846	CACACTTGAGCATCTCCGAATC	825
226	GGTGGTTGGATTCTGTGCGT	207
747	ATCGCTCTGCGGAGAACCAT	728
822	TCAACTGATTGTGATGCTAATGTGAC	797
822	TCAACTGATTGTGATGCTAATGTGAC	797
822	TCAACTGATTGTGATGCTAATGTGAC	797
822	TCAACTGATTGTGATGCTAATGTGAC	797
822	TCAACTGATTGTGATGCTAATGTGAC	797
906	TCCAGTAGAGAAGACCATCACATTG	882
213	AGTGAAGTCCAGGCTGATGA	194
3279	CGATGAGATGTGACCTGCCAA	3259
2199	CGATGAGATGTGACCTGCCAA	2179
1815	CGATGAGATGTGACCTGCCAA	1795
2080	CTTGAATGGAGTTGTCGCA	2061
293	GAACACTCATCGCAGAACTCG	273
371	CCTGGAGATTGTGTGAAGCG	352
418	CCTGGAGATTGTGTGAAGCG	399
1049	GGAATGCCACATCAGCTACTG	1029
407	TCACCAGTACACATCCAAGTATGG	384
275	TCACCAGTACACATCCAAGTATGG	252
597	TGAGATGAACATCGGCTTCG	578
2121	CGACGGCTGAACTGGATTACTC	2100
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2057	CGACGGCTGAACTGGATTACTC	2036
614	TGAACTACGCTTGGACGAATC	594
510	GTAAGTGGTTGATAGATTGCGATTG	486
1181	AGAACCAATCGGCGTTGCTC	1162
142	TGCGTATCATTGCAGCTATCG	122
345	CAGAATGTGACCTTCATCGCA	325
2989	TCGGCTCCACTCTGACCATT	2970
3277	TCCACCAGCATTATCTTCTTCA	3256
536	GCTTCTTCTTGTACTTATTCAGTTGATG	509

176	TGTACTTGTTGCCATGACGGT	156
283	TGTTACAATAGTCAAGCATGGTATAGC	257
895	CCTTCTTCAACAATGCCACAA	875
236	TTCTTATCCATGTCGAGTTCATCTACT	210
174	CATATCGAGCTCGTCAACTTCC	153
199	TTAGTTCATCCTTATCGTTCATGTCG	174
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370	TGCGGATCATAATAGGAGTGTG	349
461	CATTGCTTGAGGACAGGTGCT	441
587	CATTGCTTGAGGACAGGTGCT	567
200	ACTTCCGCCTTATCGTCCAG	181
684	TCTTCAGCCGCACCTTGTTT	665
524	ATTGTTGGCTCATCGAACGA	505
449	GATGTCATATTCTGCTCCAACGA	427
179	AACATTATGGAGAGGATCGGAA	158
1981	AGGTGGTGGTGAAGTTGGAG	1962
1932	AGATCCGTAGGAGCCTCTTGG	1912
1051	GTAGGTCCATGACTCTGCTAGTGA	1028
872	GACTCTGCCGACTGATGTGC	853
1172	GGCTTAGGAAGTGGAAGGCTA	1152
117	TTCCTTGACCAGGTGCTTGG	98
188	TTCTGTGGTCTGTGTCTTCTTG	165
231	CTGTGGTCTGTGTCTTCTTGGTC	207
207	GCAACAAGTCTCCATTCTGATCGTAA	182
549	GTAATGAGGTGAGCGAAGGC	530
284	CCACAAGACAACCTTGACAGTGC	261
345	CCACAAGACAACCTTGACAGTGC	322
149	CAGTCCAACAACGACTGCTG	130
2107	CAGGAGTTGCCGAGTAGTTGA	2087
2136	CAGGAGTTGCCGAGTAGTTGA	2116
735	GACGCAATTATTCTCGACGGT	715
170	CCGACTGTTGATGGTTCAGC	151
873	CCGCAAGTTCAAGATTATTCG	853
1218	CGTCCATTCCTTCTCCAGTG	1199
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1234	CGTCCATTCCTTCTCCAGTG	1215
161	CATCCTCTCCTCATCCACTGC	141
154	GGTGGAGCAGGAGTCGTTGT	135
137	GAGGTCATATGGAATGGTGTCAT	115
157	CTACTCATTCTATTATCCATTCTTAC	130
123	CAGCGAGAACATGTGTCTAGCAG	101
255	ACTCGTTGACATCTTCTTAGTCTATC	228
192	CCACACACTCACCAACCA	173
738	ATTGATGATGGAGATCCGACA	718

130	CGTTCTCCGATAGACCATCAGC	109
142	CCTGTCCAGTCTACGTGTGTGC	121
646	AACCATTCTTGCCATTGAGC	627
762	AACCATTCTTGCCATTGAGC	743
924	AACCATTCTTGCCATTGAGC	905
197	AACCATTCTTGCCATTGAGC	178
924	AACCATTCTTGCCATTGAGC	905
771	AACCATTCTTGCCATTGAGC	752
924	AACCATTCTTGCCATTGAGC	905
797	CCAACTGCTGCCAATGTCTG	778
167	CACTTGACAATCCGTGTTAACGATA	143
211	GAGCGTTGGCGAAGAAGTGC	192
842	TTGAGAGTGAGAACGCAGAGAA	821
267	ACAGAACTCGGCGAGTGCAT	248
270	AGCCGTCTCGTCCTCAACTG	251
544	CAGTGATTGATGGACGAAGGA	524
1208	CGGAGTAATTCTGGCACGTACATG	1185
1184	CGGAGTAATTCTGGCACGTACATG	1161
2042	TGGAGCAGTTGATAATGATGGA	2021
2096	TGGAGCAGTTGATAATGATGGA	2075
1380	TGGAGCAGTTGATAATGATGGA	1359
933	TGGAGCAGTTGATAATGATGGA	912
700	TGAATCCGTAATGTTCTTAATGAC	676
281	TGGCTCCTCCTTCTTCTCTC	261
682	GTGATAGCCGCATATGTGATGT	661
191	TTAACTTGAACAGCGACGAAGA	170
1189	GGTGGAGGTGTTGTTGGTGTT	1169
118	TGGACCAGAGAAGTACCATTAGTATG	93
1243	GGTGGAGGTGTTGTTGGTGTT	1223
191	TGTCCATCCAACCTTCATACTGG	170
167	CAGCGACGGTTACGAGTGTG	148
167	CAGCGACGGTTACGAGTGTG	148
1201	ACGCCGCTGCTGTCTTATCC	1182
1284	ACGCCGCTGCTGTCTTATCC	1265
1013	CCAACTCCTCGTCCTCATCG	994
203	GCTGATATGGAGCAAGACACG	183
169	TCCACCACACCAGAAGCAAT	150
206	GAGTCTGTAGTTCCTTCGGCAA	185
232	GAGTCTGTAGTTCCTTCGGCAA	211
142	CAGATGGTTCAGAGAACACTAGAGAA	117
366	AGTGACTGGTGGACATTGCC	347
873	CGAATGAGATGTGCTCTTCCTACG	850
775	CGAATGAGATGTGCTCTTCCTACG	752
1506	GCCTTCTCCTTCTGTTGACG	1487

1385 GCCTTCTCCTTCTGTTGACG	1366
1516 GCCTTCTCCTTCTGTTGACG	1497
1512 GCCTTCTCCTTCTGTTGACG	1493
1506 GCCTTCTCCTTCTGTTGACG	1487
1426 GCCTTCTCCTTCTGTTGACG	1407
1404 GCCTTCTCCTTCTGTTGACG	1385
1283 GCCTTCTCCTTCTGTTGACG	1264
1414 GCCTTCTCCTTCTGTTGACG	1395
1410 GCCTTCTCCTTCTGTTGACG	1391
1324 GCCTTCTCCTTCTGTTGACG	1305
1400 AGTTGAGCACTGGTTGAGAGTTC	1378
1279 AGTTGAGCACTGGTTGAGAGTTC	1257
1410 AGTTGAGCACTGGTTGAGAGTTC	1388
1406 AGTTGAGCACTGGTTGAGAGTTC	1384
1320 AGTTGAGCACTGGTTGAGAGTTC	1298
599 GGTCTGGAGGCTGGAAGTGC	580
272 TCAGCGTAGTTCATTCTTGC	252
175 TGCCTGTCTCTTCATTCTGGA	155
233 TGCCTGTCTCTTCATTCTGGA	213
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233 TGCCTGTCTCTTCATTCTGGA	213
175 TGCCTGTCTCTTCATTCTGGA	155
233 TGCCTGTCTCTTCATTCTGGA	213
277 ATCCGACCGAGAGTCCGTGA	258
670 CAATACTATGCTCTGATTCTTCATCTCG	643
473 CAATACTATGCTCTGATTCTTCATCTCG	446
500 CAATACTATGCTCTGATTCTTCATCTCG	473
801 CAATACTATGCTCTGATTCTTCATCTCG	774
957 CAGAGGTAGAGGACGAACGACTT	935
456 CCGTGTCTTGTCTTGATTCCA	436
513 CCGTGTCTTGTCTTGATTCCA	493
536 ACCAAGTCGGAGTCATACACG	516
264 CGAGTTGTCCTCTGTTGAACG	244
700 TCGGACTTACAGCGGCAGAA	681
145 CCACGCGTATTGTGATGAGA	126
134 CCTCTCCATTCTACTACGGTACTTCTTG	107
803 GGATGAGGTGGATGGAGTCG	784
626 GGATGAGGTGGATGGAGTCG	607
735 GGATGAGGTGGATGGAGTCG	716
247 CTTATCCGCTTCGTCGTCAT	228
314 CCACCGCATTCTTCTTCCAA	295
358 CGTGAGTTGAGGAAGGAGATG	338
277 CGTGAGTTGAGGAAGGAGATG	257
127 GAACACCGTTCTGATCGTCAA	107

381	GCAGACAATGTCGGCTTCTATC	360
986	GATCAGTATCGTCTGCGTAGACAT	963
366	AAGTATCCGTCCTTCTGCTTCA	345
972	TCTGCGTAGACATGATGACCA	952
151	CGAGCTGATTGTGAGTACCACTAAG	127
1037	GTTGAAGTGTGGAGCGGAGA	1018
1441	CCGACGCCAATGTACACGAT	1422
1268	CCGACGCCAATGTACACGAT	1249
684	CACCTCCAAGATCGTAGACAGC	663
753	TTACCGCCAACCGCTTGATC	734
753	TTACCGCCAACCGCTTGATC	734
726	TTACCGCCAACCGCTTGATC	707
766	TTACCGCCAACCGCTTGATC	747
809	CAACGACCATTAGGAAGAGCATT	787
1217	CAGGTAATGAAGATTATGACGAGGA	1193
147	GACGATGGTGTATGAGTGAAGAGT	124
1403	CGATGCCGATGACACTGGAC	1384
3092	GATATTGAGCATAGATATTCATCCAGTG	3065
3110	GATATTGAGCATAGATATTCATCCAGTG	3083
3371	GATATTGAGCATAGATATTCATCCAGTG	3344
205	AGTAATCAACTACCTCATTGCTTCG	181
845	ATTGAATTGAGTTGAGCAGCAA	824
838	CAATTCCAAGTTGAGCAGCA	819
727	ACGCTCTCTCATCTGCCAAT	708
909	ACGCTCTCTCATCTGCCAAT	890
308	CACGATCAATCATTCTGACAAGGT	285
369	GCGTAGGTTTCATCAGGTTCTCA	348
503	GCTCATCTCGCTCTCGTCAG	484
803	GCTCATCTCGCTCTCGTCAG	784
573	CCGAGGAGGCGTAGAGCATA	554
873	CCGAGGAGGCGTAGAGCATA	854
393	CCGAGGAGGCGTAGAGCATA	374
693	CCGAGGAGGCGTAGAGCATA	674
307	CGGTAGGTGGAACGATGAAG	288
984	CTTCTGAGGACTTGCGCGTT	965
305	TGCGTGTCGTTGAGCTTCTC	286
984	CACACCTTCTTGACCAGCATAG	963
478	ATGCCGTTGAAGTCGTTGGT	459
130	CGAATTGAGCCATTAGCCGAT	110
120	AATAAGCGCAAGCGATGTGT	101
1249	TGAACACAAGTGGCAACTGATC	1228
1106	TGAACACAAGTGGCAACTGATC	1085
820	TGGCAAGTCTGTCAAGTGAA	801
600	TGGCAAGTCTGTCAAGTGAA	581

937	GGTTGAGATCATCCAAGTCGGT	916
717	TAACGCCAGACGGTTGAAGA	698
394	CACGAGCCAGGTACATTGTG	375
177	CTTGTTAGATGCGTCGAGAGATAC	154
617	ACTGAAGAACTGAACCGCTGA	597
294	TCAGATTGATTAGGTCTTGATTGTCC	269
2473	TTGGACAGGAGTTGCTTGAGTT	2452
659	CAAGGCGTTGATAATCCGAGT	639
653	CAAGGCGTTGATAATCCGAGT	633
549	CAAGGCGTTGATAATCCGAGT	529
629	CAAGGCGTTGATAATCCGAGT	609
599	CAAGGCGTTGATAATCCGAGT	579
643	CAAGGCGTTGATAATCCGAGT	623
280	TGGATGACTGAGCAGCCAGAGT	259
392	TTGTTGGCAAGAATGACTATTGGAAT	367
180	CATTCCACATCCACATCCGA	161
336	TTCTTGTTTCGATGACCACAATC	315
1659	CAGTTGGTGGTATCTCTCTTCGG	1637
1547	CAGTTGGTGGTATCTCTCTTCGG	1525
95	CCGTAGCATATTGTATTAGGTCTTCC	70
563	TCCGTGAGAGCCATGTTACC	544
150	TCAAGAACATCGATTGGCAAGT	129
2698	TGCGAGCCGATGAGAGAAGA	2679
2014	TGCGAGCCGATGAGAGAAGA	1995
153	CGGTTGGCTCGTAGTATGGC	134
137	ATTCGCTTCTCACGGACTGC	118
135	GGACGCACTCAACGACGATT	116
715	TTGGAGCACGGAACAGAAGA	696
1265	CGTGAATGGTTGGCGGAGAT	1246
902	GCATAGCTCACTTGTGGAAGTCC	880
227	TCCTTCAAGAGACGATTCTCCTC	205
201	GGAGCTGGAAGAACTGCATG	182
274	GGAGCTGGAAGAACTGCATG	255
266	GTTGAATCTGCTCCGTGGCT	247
227	AGAAGTGCTGTAGACTGCTTATTCC	203
754	GGATATAACTAAGCATCGGCAGA	732
954	CAGTGGTGGTCATGTTGTTGTTGT	931
952	CAGTGGTGGTCATGTTGTTGTTGT	929
1016	TTACACAATCGAAGATCTGCGGTT	993
1108	TTACACAATCGAAGATCTGCGGTT	1085
160	GAGTTGTCACTGGAGCACTTCTG	138
493	TTGTGACGTCATATGGATGGTT	472
821	GATTGCACATTATGGTGAGTTGA	799
286	ATGTCACAATCGTAGCATCCTG	265

1177 TCTCCAGTTGAAGTGACCGTAA	1156
269 GCTCGACGATAGCTTGTTCTG	250
1141 CTGCGTTGAACATTGCGATT	1122
616 CTGCGTTGAACATTGCGATT	597
176 TCCATTAACGGCGTCTTG	157
176 GCGGTCAATATGTTCACTAGAAATTGC	151
1729 ACGCTCTTGCAGAGACCAGA	1710
1729 ACGCTCTTGCAGAGACCAGA	1710
291 CTTGCGAGCATAGTCGTCAAC	271
246 GAATTCGGAGTTCTGAGAAGACA	224
291 CTTGCGAGCATAGTCGTCAAC	271
120 TCACAACGTTCTCAAGCCAA	101
853 CGTACTCGTCATATTCCTCATCAG	830
120 TCAGAATCGCTCGCCTGTGT	101
853 CGTACTCGTCATATTCCTCATCAG	830
347 CCTTCTTCTGTGTCTTCGTATGG	325
460 CCTTCTTCTCCATTGTCTGATTG	436
363 CGAGACTGAATGTGCATACGA	343
133 CGGTTAATTGTTGTGATTAATGGTG	109
1399 GGCTTGGATTGAAGATCATCG	1379
678 GGAGCAGCAGCAGGTGTAGC	659
221 CTTGTCGGTGTCATAGCCT	201
965 TCGCTGCTTCACTGACAACTTC	944
752 GCGAATTGAGCATCTGTGAA	733
832 GCGAATTGAGCATCTGTGAA	813
746 GCGAATTGAGCATCTGTGAA	727
826 GCGAATTGAGCATCTGTGAA	807
121 AGACGGAGAGCCAGGAGAGC	102
149 CCACAAGGAACACTTGGTATTCC	127
589 GCAGGTGGTTCCAGATGTGT	570
939 AACACTGAACAATTATTGCTTAGG	914
573 GGTGAAGCCAGCGGTGTAGA	554
205 GAGCGGATTGTGCGAGAGAG	186
586 AGGCTGAGCAAGTGGCTCCA	567
145 TCTCTTCATAACCATCCTCCGT	124
623 CACGGAATGATTGTCTGGCT	604
623 CACGGAATGATTGTCTGGCT	604
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623 CACGGAATGATTGTCTGGCT	604
512 CACGGAATGATTGTCTGGCT	493
623 CACGGAATGATTGTCTGGCT	604
512 CACGGAATGATTGTCTGGCT	493
211 CAGAATTGCACAGATGATTATCCAC	187
171 GGAGCACGTCTTCTCATCAACTTG	148

196	GTCTTACGACGGAGCGATTG	177
196	TGAGCCACATTGGAGACTGA	177
413	TGGTGTTAGGATGTTGTGTAGGC	391
413	TGGTGTTAGGATGTTGTGTAGGC	391
601	TACGCACACCTGGAGCACCT	582
753	GAAGCAGCGATTAGAGAAGAGCA	731
181	CGTGATGTATGTTGGAGAAGTGAG	158
506	ATTGGATGAAGAGCCGATGG	487
750	AATACTGAACAAGTAGAATCCAGGAAT	724
631	CGATTAGACGGATGTCTGATGA	610
257	GAAGTACGGAACCATTTGAAGA	236
370	CCTCCATGTCGTAGGAATGC	351
355	CGTAGGAATGCTCGATGCTTG	335
419	TTAGGTTGCCAGGTCGGAGT	400
518	ATTCATCTTCGCATTCACATTG	497
518	ATTCATCTTCGCATTCACATTG	497
665	TTCGCACTATCATCTTCATTATCC	642
147	CGATAATTCGGTCGTTGCAGT	127
207	CTCAATAGTCCGCAGCACAAAC	187
407	TCGTTATTGTGAATTAAGTAGTTGATCA	380
428	CAGTTGTTGCCCTTGGCTCTT	409
788	GCCGTAACCTCATCCGCATT	769
1651	ATCAACAACCATCGCAGCAA	1632
474	CCACTGAAGTCTACCATTGAGCA	452
188	TTCTTCTGTTCAATAGTCAATTCCTCA	162
626	CACTATTACCAGAGCAAGACGATG	603
626	CACTATTACCAGAGCAAGACGATG	603
613	CACTATTACCAGAGCAAGACGATG	590
626	CACTATTACCAGAGCAAGACGATG	603
613	CACTATTACCAGAGCAAGACGATG	590
328	TGGTGGCAAGCACCTAATAAGC	307
180	TCACATCGCAGGTTCAATCC	161
431	GAATAAGATTGCGAACATGGAGAG	408
174	GCTCTCCTGTGTTGGTGCTC	155
150	CCGAATCACACAGATATGACCACA	127
135	CGACAGTAATCTACTACGGCCAACA	111
828	CCAATCAATCAGCACCTTCC	809
152	GCGGTGTCGTATGCTGTGTA	133
203	CTCCGTTTCGTCTAGCCTTG	184
128	ATCCGCCACCTGTTACCTG	109
387	TCCAGCAAGTTGAATGACTCC	367
185	GTGCCTCGTTCATTGGATTG	166
364	GTGCCTCGTTCATTGGATTG	345
412	CAATTCCAGTGATCCAGAACAAG	389

198	CCATATTGTGGATTGGTAGGACA	176
198	CCATATTGTGGATTGGTAGGACA	176
125	CACTGAGACTGTTCAACACACCA	103
127	TCGACTCCTAGAGCCTATGCTC	106
458	TGGAGAATGGCAGAGTCTTCA	438
341	TGGAGAATGGCAGAGTCTTCA	321
1287	GGAGAGCAGTTCAGGCGTTC	1268
713	GCCTCTTCGCATAACACCGT	694
642	GCCTCTTCGCATAACACCGT	623
121	CGGATGACTATCGCAAGGTG	102
112	CTACTGGAAGCAATGCGATGT	92
1428	AACTCTCTGCCGTCGCTTAG	1409
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147	CACTTCTACTGGCTTCAGTGTGG	125
239	TGCCTGGACACTACAGAATACATAC	215
162	TTCCGAGGAAGAATCGTCAA	143
138	TCATTCATGACATCAGCCTCA	118
161	CACTCTCACTCCACTCACTTACAATG	136
131	TGACCATTCCACTACTCTATCCG	109
134	CGGATAGAGTAGTGGAATGGTCA	112
614	TGAGTGACGATGCAAGTGACG	594
185	CTAGATACGAGGATAGAGACCTTGTTCT	158
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387	TGATGGAGGTGGACGACGAT	368
1161	CGTTGCCATCGTCATCATTG	1142
345	CGTTGCCATCGTCATCATTG	326
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2805	TTCGTCTTCTGCGTCTTCTTC	2785
2707	TTCGTCTTCTGCGTCTTCTTC	2687
2707	TTCGTCTTCTGCGTCTTCTTC	2687
2751	TTCGTCTTCTGCGTCTTCTTC	2731
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2832	TTCGTCTTCTGCGTCTTCTTC	2812
2832	TTCGTCTTCTGCGTCTTCTTC	2812
186	GATGTTCTTACTGTCTTCTGAAGCATT	160
2700	TTCGTCTTCTGCGTCTTCTTC	2680
449	GAATGGCTATTGATTGGAATGG	428
1168	ATTGTTCAAGCATCACGAGCA	1149
203	ATGTATGGTGAAGTGGAGAGG	183
145	TGGAGTTGTCGTCATTGTCAGA	124
219	TGGAGTTGTCGTCATTGTCAGA	198
201	AAGTTGAATGGATCCAGAGGAA	180

173	GGAAGTGGAACTGAAGAGGATG	152
747	TGATCATCTTGATTGGCATGG	727
986	GATGATGAAGAGGCAGCAAGTC	965
747	TGATCATCTTGATTGGCATGG	727
747	TGATCATCTTGATTGGCATGG	727
1020	CTGTCATCTTCCGAGTCTGTCA	999
1255	CCGTAAGTCACTTCTCAACTCGT	1233
517	CCGTAAGTCACTTCTCAACTCGT	495
320	TGTCATGGTATCGCTTACAGACG	298
928	TGGAGTTGTGGAGCCTTGATTG	907
208	GAGATGGTGTGAGCACGACTT	187
208	GAGATGGTGTGAGCACGACTT	187
1020	GAGGAGCTGGAAGAACAGTCG	1000
628	TGGATGAATGAGTAGTGGAACG	607
2356	AACAACCTTCACTCTTCTCTGG	2334
1031	TTCGGTTGAGGATTCAGGATAG	1010
211	CTCTGCCGAACGAGATGGTC	192
122	GCACGTAAGGCCTGCAGATC	103
1008	GCAAGCCATTACAGCAAGGA	989
222	GGTAGTCGTCTTCTCTCTCC	201
621	AGTCGTTGACATTGTTGTCGTAA	599
493	AGTCGTTGACATTGTTGTCGTAA	471
143	CCTAATCTGAATCGCGTGTCTG	123
1279	ATCTCGTGGCGGTAGGCTTA	1260
211	GTTGTCGTGAGGAGCGTGAT	192
211	GTTGTCGTGAGGAGCGTGAT	192
211	GTTGTCGTGAGGAGCGTGAT	192
1303	GACCAAGTGAAGTTGAGAGTTGAGTG	1280
859	TCGTCATTACCATTATTGAATACCAC	834
256	GGTTCCATGAGAACTGTCGCA	236
679	TCCAATCAATCATCATTCTGTCCA	656
963	ACGGAGACAGGCACTGGTTG	944
891	TGATACGACTATAGCTGTTGTTGACA	866
648	GGCAAGAACGTATCGAGGTG	629
163	AATGATACTGAACTTGGCAAGAGAA	139
376	GGTTCTTCATAATGGCAATGTCC	354
615	GAGCACATATCGGAGGTGTCTACT	592
623	GAATCAGCGGTGTAGATGGC	604
649	TTGCAAGAACGTATCGAGGTT	629
558	AAGGATGAAGTATTCAGGATCGTTA	534
251	AGACGGAGGACGACAAGCAG	232
442	CATTGTTACCTTGCCAGTGAAGT	420
1373	TGTAGTTGTATCCGTAGTCCATTGTAAG	1346
139	AAGGAAGAAGCATAGCAACCG	119

101	AAGGAAGAAGCATAGCAACCG	81
232	AACTGGTGGAGCGTCTGGAG	213
347	TCATCAACATCATCATATCCTTCG	324
427	TCGTTAGAATAATGTAGCACTGTAGCA	401
501	AAGCGGTCCATACAGCGAAT	482
521	AAGCGGTCCATACAGCGAAT	502
580	AAGCGGTCCATACAGCGAAT	561
385	CCATTAGAGAATCTAGAAGTTGGTTGA	359
880	TCCTGCTTGATTGACGAGTGTG	859
582	ATAATCGTCGTCCGCACCAT	563
293	CACGAACATCCTGTGCATGTC	273
232	GTTCTCGCCAGTTCTCAAGC	213
349	TTGATGAGACGAGCATTCGG	330
514	TTGTGAAGGATGACTGGTTATGG	492
144	CTCCTCCACCTGTCGTTGCT	125
515	CAGCGTGCATGGTTCCAGTA	496
515	CAGCGTGCATGGTTCCAGTA	496
421	CACATCCAAGAACCGAGAACA	401
112	CACATCCAAGAACCGAGAACA	92
1121	CACATCCAAGAACCGAGAACA	1101
391	GCTCATAATCCTTCAAGTACAATGTG	366
1769	AATTGTGAGATGGCTCGATCAC	1748
128	ATTGATACATCTCCAGCAATATGC	105
1766	AATTGTGAGATGGCTCGATCAC	1745
1767	AATTGTGAGATGGCTCGATCAC	1746
300	CATGAATCGTTCTGGTACACCTT	278
521	CATGAATCGTTCTGGTACACCTT	499
157	CAGTTCCACTTCCAAGTTCCAAGA	134
172	CAGTTCCACTTCCAAGTTCCAAGA	149
201	CAGTTCCACTTCCAAGTTCCAAGA	178
203	TGAGAAGGCGGAGAGCGATT	184
422	TGAGAAGGCGGAGAGCGATT	403
773	GTCTGCCTTAGATCGTTCGGAT	752
1582	TGTTAGTTGGTGGAGCAGCA	1563
600	TCCACTACTAGACGAATCTATGCCA	576
606	TCCACTACTAGACGAATCTATGCCA	582
3544	ACGACGACTCACTTCCATCTCT	3523
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975	CAACCGAGAGAAGCATCAGAA	955
151	CATCTCCTTATACGTCAATCCTT	128
821	TTCAAGCAACCAAGTGAGCA	802
271	TCGACGTGATAACATGAGAAGTCT	248
198	GTCAACAGCACGAGAATCCAT	178

205 GTTGACATTCATTCGGCGTT	186
422 TTGGTCGCCTTGGAGATTGC	403
422 TTGGTCGCCTTGGAGATTGC	403
124 CCGGTGTGCCATATCATCTC	105
230 ACTCTGGCTCACGCTTCTTG	211
374 CCTACGCCACATGATTCCAT	355
729 GATGACATACTGATGTATTGTTGGAAT	703
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989 TCGCTCATTACCTTGACTCTCTTAG	965
673 CAACGTATGAATTGACTGCGAA	652
324 CCATTGTGGAAGACGTAGACTAGG	301
548 ACAGGACTGGCGAAGGCAAT	529
738 GGCTGATGAAGTTCCACCAT	719
220 GTCGAGTGGCCAAGTGCAAG	201
460 CAATTCCAAGGATCGCATATACC	438
143 TAAGTGAAGGTCACTCGGAACGG	121
975 CGAACTCAGCCTTGTCTCCA	956
975 CGAACTCAGCCTTGTCTCCA	956
444 AATGAGTAGGTGAAGCATTCGG	423
607 CGGTGTATGTAAGCGATGATTG	586
721 CGGTGTATGTAAGCGATGATTG	700
2127 CTTCTCAGTGGTGTCTTCGGA	2107
665 GCGACTCTATCTTCACTTGGA	644
771 AATCGTCGTGCTCGTTGGTC	752
771 AATCGTCGTGCTCGTTGGTC	752
708 TGTCCAATGCCATAGCGTGT	689
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1327 CAGACATTGGCATTGGAACA	1308
367 GCGTTATCCTCCAATACAACAGTG	344
127 TCCTCCTACTTCTCACAATAATCC	103
143 AGATTCAACGATTCAGCAGCAC	122
374 GACATTGGTGCGTCAAGGAA	355
134 TCAAGATTCAATTGAGCCACTTG	112
396 CGGAGTACGTGGAGTTGTCAA	376
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709 TCCTCCTCCTGACCACCATT	690
356 GATGCCGTGTATAGTGAGTTGTTGA	332

356	GATGCCGTGTATAGTGAGTTGTTGA	332
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330	GATGCCGTGTATAGTGAGTTGTTGA	306
652	GCTCACGATTGTCTGCGATT	633
410	CGAATCGTCACTTCCTTGAGA	390
1047	ATATGCTGGATGAAGGAAGTGTATC	1023
909	ATATGCTGGATGAAGGAAGTGTATC	885
314	AGCCGATATGAGCGACATTG	295
173	GGTAATGGAGGTGGTGGTTG	154
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265	GGTAATGGAGGTGGTGGTTG	246
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1345	AACTACTTCCAACCTGATACTTCCGCAT	1319
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746	CGGTAACACGATCAGCAGACA	726
1333	TTGTATTGGAGCCTTGTGGAG	1313
466	CACGCTTACTGTCTGATGTTCC	445
315	AATAGAGTTCCATGCTGAATCCA	293
393	GGAGTTGGCAAGAGCAATCAG	373
141	TCGAATGTAGATTGACGGATCA	120
138	CCGACACATTGACACACTTGA	118
148	TATGTGCTCCATCCGGCTTC	129
928	CAATGATTGCAGCAGCACAA	909
257	GAGTTGGCAGCGTATGGAGT	238
400	AACAAGAGCAATGGCAAGCA	381
101	GGAACCTTTCATCGGCTCGT	81
652	AATACGAGCAAGCGTTGGAG	633
1792	TTGAGGTGAGGTAAGATGTACGAAT	1768
1341	GCAGCAATAACGACGCAGGT	1322
1242	GCAGCAATAACGACGCAGGT	1223
143	GATATAGAGAATCAGAGTTCGAAGAGAA	116
252	CGAGTGGACCGTTGATGTTG	233
2135	ATGAAGGTGCTGGCTGTTGA	2116
369	GTTGAATCGACAGGTTGACTTGA	347
269	TGTCCTCCGAGTGGTTCAGA	250
881	TATGTGGCAAGAGCGGCTAC	862
831	TATGTGGCAAGAGCGGCTAC	812
850	TTCCAATTACACCTTGAATCCAT	828
700	TTCCAATTACACCTTGAATCCAT	678
126	TTGCTGCAACATGGTGGCTT	107
536	GCTTCTGCGTGGATGAGTCG	517

206	GACAACAGCGGTGTGATTCC	187
1455	TTACACCAAGCATATAGACGAGAAGT	1430
670	CATCCGTGTCTCCAGTCCAA	651
488	CGGAGCAGTGATGAGCGTTA	469
152	GCCATATTGAATGATTCTACACGAA	128
647	CAATAGCCTTCATACGGAGTGTC	625
228	CCATCTAAGCTATCGCCAGAAG	207
676	CTTCATATCAACGAGACGGCTCA	654
542	GGCTTGTCTACAGTGGATGGC	522
376	CCTTACCAGTGATGAGTTGTTCCG	353
278	TATGGATCGTTGCTGATGGA	259
409	CCATCATTAGTGCTGCACCAA	389
364	TTGCCAGTCATCAGCGATTG	345
603	CAGCACACGCATTGAAGAGC	584
715	GGAGCAGTGATTGGAATGAGC	695
527	GGAGCAGTGATTGGAATGAGC	507
676	GGAGCAGTGATTGGAATGAGC	656
601	GGAGCAGTGATTGGAATGAGC	581
883	GGAAGAGCACCACGACGAAT	864
747	GCGTTGTTGTTGTAGCCAGTT	727
326	TACATCATTGGCTCGCAGTG	307
253	TACATCATTGGCTCGCAGTG	234
134	TTCACCAGCTCATCCGTGTA	115
595	CACTCCATCTCCGAATGTGC	576
613	CACTCCATCTCCGAATGTGC	594
1172	ATGGAGAGTGGATAGATTATTACGAAC	1146
677	CGTCTACCGTCAAGATGAGGAT	656
128	TGGAACACGCAACATGTATTACTC	105
125	GCATCAAGAAGTGGCGAATCC	105
125	TTCTCTTCACTGGTTCACGGA	105
166	ACACTTATGATCTATCGGCTGAATC	142
958	GACCATAGATCATCATCACACATCC	934
958	GACCATAGATCATCATCACACATCC	934
1014	GACCATAGATCATCATCACACATCC	990
898	GACCATAGATCATCATCACACATCC	874
954	GACCATAGATCATCATCACACATCC	930
556	CTCGGAACATTCTGCCATCG	537
751	GTTCAGCAAGTTGAGACGCA	732
700	AAGAATGTAATGGCTGAGGAGACG	677
1300	TCCAGCAGTCACTCCAACAAG	1280
1332	TCCAGCAGTCACTCCAACAAG	1312
1131	TCCAGCAGTCACTCCAACAAG	1111
299	TGCTCATCAAGTGAATCCGA	280
423	TGAACACTGACATGGCGAACA	403

1029	GCAACTATATTGTCAACGAATCCA	1006
2378	CGATGACTGGACGAATGAGAT	2358
205	TGAATGGAATGTGAGCTGGTG	185
827	GGTTCACATCCGTATTCTGTCCAA	804
726	AGCATTCGTGTCCAGTCGTC	707
1109	TGATTGGCGACGATGGATAG	1090
389	ATGCCGTTAGGAAGCAACTG	370
389	ATGCCGTTAGGAAGCAACTG	370
335	TTGTGTGTGGAATGTTGTTGC	315
444	AATTACTTCGGTGGTGCCAA	425
435	AGTGGCTGCTGGTCCATCTG	416
254	TGATAATGAGCAGAAGAACCACAA	231
1209	TGCACTTCGCATGACTCTCA	1190
648	CCATTCGTTACGAGTTGCCT	629
304	AACACTTGATGATGGTTCACC	283
433	TCCACACTTCGTCAACACACTC	412
503	TTGACGGCTCTGGTAAGGAG	484
246	GGCGAGTAGAAGTGCTATCAAGA	224
250	GGCGAGTAGAAGTGCTATCAAGA	228
145	GCATCATCAACGTCGTCTCTT	125
130	GGCGAGTAGAAGTGCTATCAAGA	108
285	CTCTGAGCTGCGATCCTTGG	266
474	GGTGTAGGAGTCTTCGATCGTC	453
165	GGTGTAGGAGTCTTCGATCGTC	144
109	ATGATGGTGAAGCTTGACGG	89
146	CTGAATAATCAAGTGGCTCAACC	124
549	TCGTCAAGCTCGACAAGGAC	530
272	CTCCGCCAACTCGTAGCCAT	253
499	CCAATGTCAGTTGAGCATCG	480
407	GAACCTCACGCACAGTCTCAT	387
444	CGGCGAATGAATTGTGCTACA	424
938	TTCAGTGTTACACATGGAATCTTGA	914
1375	TTCAGTGTTACACATGGAATCTTGA	1351
304	GGATCAACCAGTCTATTCCAGCT	282
741	GGATCAACCAGTCTATTCCAGCT	719
268	CCGAGTTGCCATGTGTTATTGC	247
964	TGTTCAAGCGTTATTAACATGGAGA	941
983	ACTATGAGATGCGTACAAGCGTT	961
119	TCTTGGTGCATTATGACCGA	100
735	GAGCTCGACGACCAATAGGA	716
708	TGGCAGCAGTATACATGGAAC	687
1082	ACAGCCTTGCTTGCACTTGT	1063
147	GACGATGGCTACACGAGATTG	127
259	TATACGGTGTACAGAGGCAA	240

241	CGGTGCTCACATTCCACAAC	221
295	CGGTGCTCACATTCCACAAC	275
163	CACTGTCCATCCGTTCTTCA	142
1049	GTGATGGTATTGAATGAGAAGAAGAC	1024
1157	GTGATGGTATTGAATGAGAAGAAGAC	1132
1220	GTGATGGTATTGAATGAGAAGAAGAC	1195
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144	GCACATACACACTCACTCTCATACACA	118
126	TTGTCATGTTGAACCGCAGT	107
129	TGGAACGATGAATAACAAGCC	109
2690	TGCATGAAGAGAATGTGAAGTGA	2668
2078	CACCTTCGGATTGATTGGAG	2059
6224	CGGAGGTAGCAGAGGAGGAA	6205
288	GGAAGTCCAGTGATTGTTGAGTACT	264
189	CTGATCGAGGCTAGGCGGTT	170
1267	GGTGGAGGATTGACGTGATG	1248
114	GGTCTTAACGGTGGCAGCAG	95
124	GGTCTTAACGGTGGCAGCAG	105
277	TCTGCTCTTCTGCGTCTTCC	258
478	TGTCCATGACAGATACTCTTGAT	454
702	CGGTGAGAGTTACGGACGAC	683
778	CGGACTCGAATCCAACAAGT	759
167	TCAGTGCTGTTGCTCCAGGAG	147
186	TCCACACACACATACAGTCAAGAG	163
1198	AATCAAGAGAAGTTAGCATAGGAAGC	1173
1592	TGGTCTCCTGTCGTTGTATGG	1572
1948	CTCGGCTTCATCTTCTCTTC	1928
1599	TTGATAGTTGGTGGTTGAATGTCC	1576
979	TTCCTCTCTGTGATTACTGATACAGAA	953
671	ACTACAGTGCCAACTGACCATG	650
456	GCTCTGAACAGCGAGATTATGC	435
456	GCTCTGAACAGCGAGATTATGC	435
139	ACAACGACAAGAATCATTGCC	119
138	ATCACTCCTCCACTCGTTGC	119
1291	CCGTGTCTTGTGAGCATTAGTG	1270
224	GTTCCGGCTGTAGACTGAACTGTT	202
1216	CCACATGAAGCAACAACACCT	1196
263	TGTCCATTCTGTTGTGCGGTA	243
478	TGTCCATTCTGTTGTGCGGTA	458
319	TGTCCATTCTGTTGTGCGGTA	299
346	GCAAGCGACAAGATCAGATGG	326
346	GCAAGCGACAAGATCAGATGG	326

1114	CAGTTCCGTCTCGCTTCAGT	1095
1108	CAGTTCCGTCTCGCTTCAGT	1089
236	GCATGGAAGAGCATGACCTC	217
298	GCATGGAAGAGCATGACCTC	279
418	TCTGAATACAACACTCTCGATTCTCAA	392
217	TTGGAACGCTATCATCATCTGGT	195
1128	GATAATTGCTTCCACCGAGATTC	1106
217	CAGCCAGCAGACACCAGAGT	198
230	GGTCACCGATTGTCCTCTCG	211
169	TCAGAACGAACCTCGTGTCG	150
125	TCAGAGCATTGGTGACCAATC	105
141	TTGCTCGGTCCATTGGTGTC	122
246	CCTATCACCGTGTCATCTCAATC	224
189	CGTAGTTCTTGCGTCCTCTGTA	168
192	GCTCTTGCGTGTTCTGTAGGA	172
723	GGTGATTGGCTCGTCCTCTT	704
700	GGTGATTGGCTCGTCCTCTT	681
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700	GGTGATTGGCTCGTCCTCTT	681
675	CCTTCGCATGGACCAACTG	656
1597	CCAGACCTTCGCCAGAGTATG	1577
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1022	TCGTCATCCATAGCCTTGTC	1002
155	CCTCGTTGCGGTTGTAATCC	136
169	CTGGACTTGACGCAATTGGC	150
200	GAATCGGCAGACGTATGAGTG	180
557	GTGAATGCTTCGGAATGCTG	538
418	ATCACCATCAGCACGGAGTC	399
864	TTACGAGCGAGTTCAATGTCC	844
468	AATCAATTCGCTCTAGCTGGTG	447
152	CCTTCGGAGTCGGTGAGAGT	133
128	CGTCGCCTCGAATTACGCTT	109
634	CAGAGTGAAGAACGATGAAGATGA	611
339	GGCTCCGTAGTGAACACGAATC	318
546	GGCTCCGTAGTGAACACGAATC	525
495	CACATCCAACACACCGTTCG	476
189	CAGCCGAGCACATATAGACTCTCC	166
328	GGCTCCGTAGTGAACACGAATC	307
1373	AAGAGCGTCAAGAAGGCGAT	1354
1511	AAGAGCGTCAAGAAGGCGAT	1492
494	CACATCCAACACACCGTTCG	475
333	CACATCCAACACACCGTTCG	314
495	CACATCCAACACACCGTTCG	476
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1779	TGATGAGTCGGCAAGAAGTTG	1759
532	CGAGGAGTGTTAGATGGTGATAGG	509
93	CATTACTCCGTCTTGAGCGATT	72
131	CTGAATGGTGTGGAATGGAC	111
1419	GGTGTAGCTCCGTTGGTAGATTC	1397
274	TTCTCGCATTGCTCATTCC	255
290	TCATGCTTGTAGCGTTGTAGT	269
193	TGACCGCAGTCCTCGTAGTAG	173
670	GTCCTCGGTGAGAAGGTCGT	651
4722	CTGTCATTGCGGATGTGGTG	4703
1873	AGCATGTTCGTAGATCAATCCAG	1851
1368	AGCATGTTCGTAGATCAATCCAG	1346
791	GCAATGGCTATCACGAAGAGG	771
137	CCACCTCTTCTTCCAATAACAG	113
285	AATAGTGAAGTGGTGCCGATG	265
1134	CTACGATTCCTACGAGCCATTC	1113
821	GGATTGGATTGGAAGTAGCGT	801
660	TTCTTCTCGTGTGTGATGCC	640
326	GCATCAGCATCCACAATTCC	307
410	CTGGTTCAGCTTGCTTCACA	391
1829	CGACACACAATGATACTCCTCCTG	1806
420	CCACCACCGATTCTCCATT	401
294	TCGATCATGAGTCATCATTGTGAA	271
163	TTGACATTGTTGCACATTCAGTT	141
332	GCATCAGCATCCACAATTCC	313
378	GACGAGAGAACGATAGTTGAGGA	356
602	CCGTGGAGGAGAAGGCTCAT	583
458	GCGGATCGCTACTATAATCGTG	437
152	TCCATTGAGTTGATAACACCGA	131
128	TGTGCTTCTCCTCAGTCTTCTTC	106
380	CACGAGTTGAATGAGTTGAGCAGT	357
672	TGTTGAGTCGATGAGTGCCA	653
1434	ATTGCTCTTATCCATTGACGGT	1413
352	GGTAGTTGCGGTAGGTTATCGG	331
745	TGATTAAGATCATGGTAGTTGTCAGC	720
1104	GAGAATGTTGATACCTCGTTGTGA	1081
356	GGCCGGTAGTTGTGATACGA	337
145	GTCCAATACTCGCATCCAAGA	125
549	TGCGAAGAAGAATGTAAGCCA	529
366	ACGATGATTACGGTAGAAGATGG	344
1514	TGTCTATGCTGTTCTTGTCTTCA	1489
95	GCGTTACACGTTACGATCTGTT	73
386	TGGTCACGGAGTTCTTGGTC	367
329	TGGTCACGGAGTTCTTGGTC	310

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536 GACACTACGACCATACGATATGACAG	511
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146 GTCGCCATCCTTCTCCGTCT	127
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399 GCGACTCTCGAAGAGGTAGATG	378
634 TGACCTCCACCACCTCCATA	615
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419 CGAGCTGTGGAGATCCAGAAG	399
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116 CCAACAGATTGATTGTAGAATAGTCCTC	89
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265	CCAATCGACAACCATATTATCGT	243
2407	AGGAGGTGGAGGAATGATGC	2388
133	CGGTAACCTGTGGAAGATGCTC	112
120	CAGCCACCGGAAGATCTGAT	101
856	CCGAAGTATATTGTCACTGAGGAA	833
219	CACAAGGAGAACAGCACGGT	200
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944	TTGTGACATCTTCAACTGTTTCGTA	921
418	GGCTTCGGAAGACACTGAGG	399
326	GGCTTCGGAAGACACTGAGG	307
401	GGCTTCGGAAGACACTGAGG	382
353	GGCTTCGGAAGACACTGAGG	334
769	CGTTATAGTGCATGTTGCTTGC	748
313	CACAGCAGCAGTGGTTGAAG	294
171	TGAAGTAACAGCGGCAGCAG	152
263	GGATAGTCGTGGCAACAGTCA	243
236	GGTGATCTCATTGTGCCATAGG	215
728	GGATACAAGCACGATGACGATG	707
574	GGATACAAGCACGATGACGATG	553
557	GGATACAAGCACGATGACGATG	536
721	CGTAGGCTGTCAGTCCGTCA	702
362	GCGAATAGGATGAAGAAGCG	343
367	CAGCGAATAGAACGAAGAAGCG	346
216	CATTATCCAGTTGTGCTTGTCTTC	193
2527	TGCCGAGACCTCCACCAACT	2508
891	AGGCACAACCACGAGAGGAT	872
715	CCGAGCCGATTACAACACTG	696
671	TCTTCCGAGCTGGTCTGAGC	652
536	GAGCAATAGTAGTGTGGAGCATCA	513
362	GCGAATAGGATGTAGAAGCGAT	341
261	ATAGGCTGCCATTGCGGAAG	242
357	GGCGAATAGGATGTAGTAACGG	336
301	CGGCGTAATGAGTTGCTGTT	282
304	CGGCGTAATGAGTTGCTGTT	285
250	CGGCGTAATGAGTTGCTGTT	231
812	TGAGGAGCCGAGAAGATGGT	793
143	GGTGGAGGAGGAGCTGGCTT	124
880	TGTCATCCTCGCTGTCATACG	860

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232	TTACAAGCCGCATCAGACGA	213
1249	CCTTCCTCCATACCTTCTCCGA	1228
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438	GACTGACACGGAATACTTCCACTT	415
463	GACTGACACGGAATACTTCCACTT	440
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956	CAGTAGACTGATGCAACGTCTCC	934
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330	CCGTAGACTGTGTAGATTCCTGTAAC	305
314	TTCTACGACATCTTCCTGGCA	294
115	CTCGGAGAGTAAGCATGTGGA	95
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385	GGTTGTTGTTGTAGAAGGTGTAATAAGG	358
5540	ACACGAGGCGATAACGATGA	5521
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5520	ACACGAGGCGATAACGATGA	5501
1351	ACTGTCCAGCCAGCCGAGAT	1332
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378	CATTGTTCTACCTTACCATTCTCA	354
333	GCTACTTACAATGAGCTGATCGG	311
2055	AATGACGAGAATGAAGTTGAACTGG	2031
1905	AATGACGAGAATGAAGTTGAACTGG	1881
2006	AATGACGAGAATGAAGTTGAACTGG	1982
1920	AATGACGAGAATGAAGTTGAACTGG	1896
313	GTAGACCTCCTGTGAACATTGCT	291
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174	CATGCCTCTGAATTGCTCGTAG	153
571	TCAAGGCGGTAAGTATTGCG	552
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278	TGTCATCAGCAACGGAATCG	259
278	TGTCATCAGCAACGGAATCG	259
434	TTCAGATCGACGAAGTTATCAGG	412
152	TTCAGAGTCACAATGAATTGCC	131
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772 CAGCGTCCGTGAGAACAACA	753
680 CAGCGTCCGTGAGAACAACA	661
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1585 CGACAACATCTCCACTGCTG	1566
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166 CATCCAACCTGCGTCCTTCG	147
157 GAGCGGCACAGTTGAGAACA	138
114 AAGCACAGAAGCGGTGAAGT	95
774 AATTCCTAACATGATTCCGTGAA	752
228 ATGATGTCAATGACGGCGAT	209
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1209	CCTCAACCAGGTGTCCATCA	1190
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574	TCGCAGAGCCATTGTCGTAT	555
960	AACATGCCATGCAAGAACATC	940
581	GCCTTGCTCACTGCGTAGAG	562
878	TCCGCAAGAATTCCTGTGAG	859
315	CAGACGTGTGCTCAGGAAGAAC	294
792	GGTTGAGATGAGCCAGAGAGG	772
369	GTAGAAGCATTGGATACGGTAGGC	346
134	GCGGAGAGAGGAGCAAGAAC	115
140	AGTTCAAGCTGCTCCAGTCG	121
134	CCATATTCACGAACACAGGCTTG	112
417	GATGAGTGCAATGTAGGAGTACGGT	393
792	TTCCTCTGCTTCACTCTTCTCTG	770
1235	ACGAGGAGGCAGTGGAGAAC	1216
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1241	ACGAGGAGGCAGTGGAGAAC	1222
233	TTAGCACCTGCGTCTCGATG	214
227	GCGGTCTTACTCTCTTATTCTCTCTA	201
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4906	GCACCAGATAGACGATGTACCA	4885
158	GCACCAGATAGACGATGTACCA	137
997	CGTTATGTCCGTGATGACTGTGT	975
838	CGTTATGTCCGTGATGACTGTGT	816
619	CGTTATGTCCGTGATGACTGTGT	597
1594	ACAAGACCGACTGCCACGAC	1575
270	TCAACCTCATTCAACCACACA	250
265	GCAGAGTAGTAATGAGCACGCA	244
519	CGATGTTGAGAGATGAATGGAA	498
495	GATGGCTCCGAGATTGGTTC	476
103	GCCAATCTCCAGTTGGCTTCT	83
112	GCCAATCTCCAGTTGGCTTCT	92
222	TCAATTCAGGATGATCACGACA	201
109	CGCATTGAATAAGACCATCGTG	88
1550	TCGAGAAGAGAATCGGAATCC	1530
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3671	AGGAAGGAGACTGCGTAGATGA	3650
1751	TCGAGAAGAGAATCGGAATCC	1731
216	AATGAGGAACACGATGAACGAA	195
258	GCATGAGACATAGTAATGGATGGC	235
376	CCTCCAACCATTCTTGAAGTGT	355
360	CCTCCAACCATTCTTGAAGTGT	339
211	GAAGGAGGTCAGAGAGAGGAAGA	189
131	GAGCTTGATAACGGCGTAGG	112

133	TGGAAGACACTTCCGGTATCCG	112
355	CGACTGGAAGACGACGACGA	336
492	GGTGGCAATAGGCTCAATGTG	472
777	TTGTGTTTCGAGTTGCGTCAG	758
1893	GCAGTGGAGAGGATGGTCAA	1874
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836	AGCAATGTATCGTCAGATGTTGA	814
686	AAGACGGCGGAAGATCCTAA	667
1156	CTTGCCTGAGAGGAGTATGAGC	1135
867	TTCCGCAGCTTATCTCATCAG	847
239	GGAAGTGGCTGGCTCTCTGG	220
125	TCACCACGGCTCCATTCTTC	106
212	GCGGACAATATCAACATGACG	192
640	ATCCGAGAGAAGAGCATCCG	621
244	AGTCTCGAATTGTCAGGAGCATT	222
1051	TGACATTACAGCAGCCGACA	1032
544	CAACAATGCTCCATTGCTCA	525
384	CAACAATGCTCCATTGCTCA	365
517	CAACAATGCTCCATTGCTCA	498
430	TGTTACCTGATCGCTTGTCTC	409
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298	ATTGATCTTCAATCATACATCCAGTT	273
169	GAATGCCACCGACATCGATG	150
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323	CAGCAGGTCCGTAGAGCGTT	304
323	CAGCAGGTCCGTAGAGCGTT	304
857	CCAGCACCAGAAGATGTAGCA	837
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3596	GATGGCTGAGCAATGATATAGGTAA	3572
1307	GACCAAGCAGAGCCAGACAT	1288
700	GAGTGTTAGAGCAATTCCTATAATACCA	673
940	GCCATTAGAAGCGAGCCGTT	921
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1019	CGTGGTTGTGGAGTTGGTAGA	999
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758	CGTGGTTGTGGAGTTGGTAGA	738
1672	CGGATGGAGATAGACAAGATTCTG	1650

1672	CGGATGGAGATAGACAAGATTCG	1650
449	GCCATTAGAAGCGAGCCGTT	430
449	GCCATTAGAAGCGAGCCGTT	430
134	GCCATTAGAAGCGAGCCGTT	115
134	GCCATTAGAAGCGAGCCGTT	115
1879	CGGATGGAGATAGACAAGATTCG	1857
1879	CGGATGGAGATAGACAAGATTCG	1857
654	CACTGATTGCGAACGACGAT	635
654	CACTGATTGCGAACGACGAT	635
891	CGTGGTTGTGGAGTTGGTAGA	871
891	CGTGGTTGTGGAGTTGGTAGA	871
1052	CGTGGTTGTGGAGTTGGTAGA	1032
1052	CGTGGTTGTGGAGTTGGTAGA	1032
916	CGTGGTTGTGGAGTTGGTAGA	896
916	CGTGGTTGTGGAGTTGGTAGA	896
512	TTGATTCGTAGTGGCAGAGATGT	490
619	GCAATCATGTTGTAATCCTCGTG	597
1204	TCCTGACTTCCTTCCAAGATACTC	1181
693	CGTACACAGTGTCATATACACCAAGTC	668
351	GAGGTTGTGGAAGAGGTGGA	332
279	GAGGTTGTGGAAGAGGTGGA	260
1286	GGAGTAGTGCTAGTGTGGAGATAACTG	1260
745	TGTAGGAGATCGTGGAGATTAGTGG	721
457	CCACACTATCCACTTGAGTTATGC	434
283	TTCTGGTTCCATTGGAGGTC	264
767	GTATGTGGATATTGATGAACGGAA	744
727	CTTGGTGGATGACATCGCAA	708
479	CAAGACATCCGACTTGTCCAA	459
168	CAAGTGTATTCAATGATTGTCATG	143
1362	GGTTCAGCCTTGAGTTCTTGTC	1341
1362	GGTTCAGCCTTGAGTTCTTGTC	1341
484	TGAATCATTCTGCCGCTCAT	465
1092	GGAACGAACGAATGGAAGCC	1073
1237	CGCCGTGTCTCTTGAGCATT	1218
1305	CGCCGTGTCTCTTGAGCATT	1286
517	GTGCTTGAGCTGCAATGTCA	498
517	GTGCTTGAGCTGCAATGTCA	498
454	GTGCTTGAGCTGCAATGTCA	435
512	CGTCTCCTTCTTGTTTCATCA	492
368	CGTCTCCTTCTTGTTTCATCA	348
578	CAGTGAGGTTCTTATTCGCCAA	557
685	ACACAGCCACAGCCATCCAG	666
305	TTATCGTCAAGAATGCTCAACG	284
892	GGTTGTTGTTGTGGTTGTAGGAG	870

695 GCCTGGACTCACAACCTTGCT	676
139 TTCTGTGGAAGGACGGTACC	120
1807 TCGCAGAGTTGTCTTGTGTAGTG	1785
218 TCGCAGAGTTGTCTTGTGTAGTG	196
519 AAGTTCCACAGCTTCAGATCGAA	497
703 TGAGATGGAATGTGTTGAGTGTC	681
877 TGAAGATGACACGGCTTGGC	858
441 CCAAGTGTAAGTGGCTAGACATCC	418
237 CCAAGTGTAAGTGGCTAGACATCC	214
1135 TTGACCACTGAAGTACTCCTCTTG	1112
579 CTTGGTGACAATTGGAGCCA	560
181 TGTTGAAGTCACTGATGAGCTCTT	158
1107 TTCATTGGAAGAAGATTAGCAAGA	1084
1253 GCTGTTCCAGTTGTTGTTCTCA	1232
1266 GCTGTTCCAGTTGTTGTTCTCA	1245
215 AGTCTCTCAGGAATCTTGTGTCTCG	191
1682 TCTCCAGGCGGCTTCAACTC	1663
247 AATGCTCCTTCCAGACGCTT	228
237 AATGCTCCTTCCAGACGCTT	218
906 GAGGCAGAACTGGAGAAGAACA	885
333 GATGATGGAGACAGCGAAGG	314
1292 GGTATGATAAGGTACTTGTATTCGTCTC	1265
156 GAGCAGCATGGTCATAAGGAA	136
994 GAATACAAGACGCAACCAGAGCA	972
415 CATCTTCTCCGTCCTTGTGTA	395
415 CATCTTCTCCGTCCTTGTGTA	395
415 CATCTTCTCCGTCCTTGTGTA	395
1136 CAGTTGACGACTGGATCTTGG	1116
432 AATGTAAGCCGTTGCAGAGG	413
163 TGATAACCTTCAAGATGTGTGGAT	140
2404 GCAGTGGTAGATGTAGATGGTTGA	2381
133 AATGCGATCAGTTGTTGTACCTT	111
307 AATCATCTGGCGTCGGAGTG	288
713 TGAGTGTACTGTTGTTGATTACTTGTG	686
437 GCTCACGAACCGACCACACT	418
120 AATTGCTGGCTTCTGTACCG	101
161 AATGCTTCATCTTGATCCTTCC	140
131 CAACGCATCCTCTCATTACAT	110
131 CCACCATACATCATTCGGAAG	111
883 ACTCCAAGTAGAAGAAGCACCCT	860
195 CTTGTTCTTCACATCCTTGAGAGC	172
385 TTCCGAGAACAGAAGAAGCAA	365
800 GCTTGTCAACATAATGATCCTCCA	777
373 ACTTCAATCTATGATACCTATCTTCGAA	346

458	TACGCCAGACAGAAGAACGG	439
458	TACGCCAGACAGAAGAACGG	439
389	AAGAAGTTACGGTAATAATTGTTGATTG	362
1017	TCACAGCCAACAGCAGCAAT	998
242	TAATCTGCGATGCTCACGTG	223
547	GGCTTCTTCGTCGTTGTTGA	528
278	CAGTGTGGAGGACTTGAAGCATC	256
1010	AACATCCAGAAGAAGCTAATCCAAGAG	985
921	AACATCCAGAAGAAGCTAATCCAAGAG	896
457	GTAGTCGTGCTGCTCGTTGA	438
192	TCCATTGGTCTCCTTCTCTCC	171
186	TCCATTGGTCTCCTTCTCTCC	165
286	CACAAGACTCATGCTAACTGGTG	264
429	GCAACTCCTTCGTATGATTCTCC	407
139	TCTTCTCAGACTCTCAAGATCGACAA	114
528	TCACATCTTCTAGATTATTGTCGTAA	502
202	CATTAGCAGTTCCATCGGTCTT	181
205	CATTAGCAGTTCCATCGGTCTT	184
245	TGACGATCTCGAGCTTGTG	226
1053	GCTGTCTGATTACTCCGTCTACTG	1030
1110	GCTGTCTGATTACTCCGTCTACTG	1087
1047	GCTGTCTGATTACTCCGTCTACTG	1024
1053	GCTGTCTGATTACTCCGTCTACTG	1030
1047	GCTGTCTGATTACTCCGTCTACTG	1024
519	GCTTCTCTATCCGCCTCCAA	500
519	GCTTCTCTATCCGCCTCCAA	500
427	CATTCAGCATTGTCACACCTTC	406
747	TTCAATCCGAGGACACCAAC	728
1129	GGCACACATTGTTGGCGGTA	1110
1008	GGCACACATTGTTGGCGGTA	989
819	GGCACACATTGTTGGCGGTA	800
325	CGACGCACAGACAGAGGAAT	306
129	ATGTGTCTCTGGCGTGGTTG	110
160	CCTGCTTGCACTCCGAAGATG	140
363	CCAGTTGAGCCGATGTCCAG	344
361	CCAGTTGAGCCGATGTCCAG	342
188	CCATCGTACCTGAATACATCCG	167
603	CATGACACTTCGCCATCTGA	584
646	TGATGACTGCTGGTGTGATGT	626
962	TTAGTGGTGTGCGACTGTGTTAGAAC	938
231	TCAAGTTGGAAGCTCTGCTCAGA	209
555	GGACAGATTGTTATCGAGAAGAGG	532
1051	GCCAACAGAAGCTGTGCATG	1032
127	TCAAGAGATTCTTCTCCTCTTAGTCA	101

1090 TAGCAGCCTTCTTGTCAGCA	1071
232 TTATCAGCGGATATGGTAAGTGC	210
885 AAGTAGAAGAAGCATGTAGGCAATG	861
603 AACTGTTGCGGAAGCCTGAT	584
335 CAGGCGGCTCCATCTTGTAC	316
139 CAGGCGGCTCCATCTTGTAC	120
335 CAGGCGGCTCCATCTTGTAC	316
251 CACCACTTGTTGCCATCAGA	232
380 GACTGTAGAGGAGAGATCACGATGA	356
510 AGCTTGCTAGAAGATCGGAATG	489
472 TCCAATCACTATCGCAACCG	453
447 CGCGTTCTCCACATAAGACAA	427
319 CCAACAAGACCAAGAAGTATTAGAACA	293
543 TTCATCAGGTCGTCGTTGGT	524
128 TCCTCCGACTTCCAAGCATC	109
823 GGCGGTTGATTAGGAATGTAGT	802
862 CTCGCAGGAATAAGACTCGTG	842
881 TCATTGCCTATTGGACGAAGA	861
429 GATTCCGATTGATATTGGTCCA	408
698 GTCAGCCAACGGTAGCATCG	679
1073 GTGAAGAAGTACGATGATGCCA	1052
438 GGCTAGCTAATATAGGATTACAAGGAA	412
132 CCTGTCAAGTAGACCTTATCATTCAAG	106
459 GAATAGGAACAGAGGCATCGTG	438
2415 CGTTGTCGCACTCTTCTGGA	2396
226 ACCTGATCCATCGTCATCCA	207
1109 CACTCGTCTTCTCTTACCTT	1088
1082 TTGCTACCTTCAATTACTTGCTCAA	1058
150 TAGACGGCGAGGTTGTGGAG	131
1210 TATTCGTTGTTGCATTGCGC	1191
223 CCTGTGTAATCCATACCATTACAAGA	198
1210 GCTCCATCCGTAATCAACATG	1190
444 TCTTCACGACGTGTGCATTG	425
124 TCATTGCTCTCTGTTCGC	105
1441 GACTTGCGTTCCTTGACCTC	1422
1587 CAGGAATAAGAGGAACGAGAGGT	1565
149 TCAGTGTCACCTTGATTCTCTCA	127
116 AATGTAGCAACAGTGGATATGGCAA	92
492 ACAGATGTTGCGCAGGCGGTT	473
831 ATCTGAGGTCGGCACTGTTG	812
1435 AACGGCATAACAAGAACAGGTG	1415
871 GGAACGATGTGGAGAACGAC	852
640 ACATTGCTTCGGCTCTGGTT	621
930 GTTCTTCCACGCAGGCACAC	911

182	ATATCAGTGCTCGGTGAGGTG	162
120	ACTTCTCTCACACGGTAGCACAG	98
613	GA CTGCCATCAGATGTTCTCAG	592
553	GA CTGCCATCAGATGTTCTCAG	532
124	ACTTCTCTCACACGGTAGCACAG	102
804	AGCGAATAATATTGCGATGAAGC	782
1929	ACCTTGTGTAGTCTGATGTCTTGTTG	1904
1935	ACCTTGTGTAGTCTGATGTCTTGTTG	1910
1274	ACCTTGTGTAGTCTGATGTCTTGTTG	1249
937	GGCTCACTGAGAGTATTAACACTGG	913
776	AATCCAACCGAGAACACACG	757
904	CGATGAGAACGATTATACAGTTGC	881
547	CTCCTTCTTCGTATAGCTGGTCA	525
109	ATCCACCTCTCGTTGATGACG	89
91	CTGGCTCATCTTGTTCTTGTTCT	69
239	TTGTGGTTGAATCGGTGGCT	220
303	GAGGAAGTAGGTATGTTCTTCGCAT	279
528	TCTGATTGCAACAGCTTGATCT	507
159	GGAGATGGACACGTCTCTATGG	138
168	CATATAAGCAGATTAGGATCATCACC	143
304	CGACCATAGTTACAGATCCATACTCA	279
539	G TAGATATCGGCTCGGTAGGC	519
269	TGACAGATGACGAGGCGGTT	250
757	GGAAGATGAAGAATAATCGGTTGA	734
333	GCTTATCCTCTCTTAATAAGAGCACCA	307
642	CGAAGAATTGAGTGTGCGTTCA	621
2655	CAGTGCCTCTTCGTCTTCTTCCA	2632
876	AGCAATAGCCTCCTCATACACG	855
158	GGCTCCAAGAGTGGATATGTGG	137
158	GGCTCCAAGAGTGGATATGTGG	137
662	CCTCGCACATTCCAGTCATG	643
749	CCTCGCACATTCCAGTCATG	730
1157	CCTCGCACATTCCAGTCATG	1138
769	CCTCGCACATTCCAGTCATG	750
155	GAGGAAGAGGTGCCGTTGCT	136
204	TGAACAACCTCCACAGAAGCA	184
700	TTCAGTTCTTGCAGTTGATGACA	678
1019	CGTCATCCGAACCTTCACTC	1000
1124	AGCGGAATTGTCTGAACTCG	1105
1079	CGTCATCCGAACCTTCACTC	1060
377	GCTGGTTCAGTGAGGTCAGTATG	355
176	GCATCAAGCTGCACACTAGACA	155
222	GCATCAAGCTGCACACTAGACA	201
691	TTGGTGGAGTTGCGATGAGC	672

124	CAGCTGACTGATACATAACGACGA	101
1691	TGACTGATATTGTCCACCTGTCTG	1669
617	CAGTCACATACCTCTTGTTCTGGA	595
228	CATAGCCTTGATGACACACC	208
464	TGACGAAGAACTGCGAGAAGC	444
168	CACATTGTCCAGCACATGAATC	147
112	TGATCGGTCAGAATAGCAACG	92
1320	CAGAGTCCAGAGTGTGTAGCCA	1299
1273	ACGGAGTATTGTGCTTCGGA	1254
1005	ACGGAGTATTGTGCTTCGGA	986
1534	GGAAGGAGACTCGGAAGGAAT	1514
910	ACTTGGCACATCTCCTTCCTT	890
842	AGGTTGAATTGGTGAGCATCG	822
281	TGGAGATGGTTGTGACTGGAT	261
766	CCTTCGTGTGATACCTTCCAA	746
730	GGAATTCTCGACGAGCTAGACG	709
70	AGTACACCAGTGAAGAATACAGCTCCAT	43
221	ATGGCAAGAAGGCACACCGT	202
1478	TCCAGTAGGATAACCTTCTTCGG	1456
638	TAATGAATGGTACTTATGTAGATTGACG	611
560	GGAATCATCGACAATCTTGCG	540
626	GGTAGGAAGAAGGTAGTTAGGCATT	602
624	TGTTACAGCATTGTGTACCAATATGG	599
1280	CCATCGTCATCAAGGAATCTCT	1259
440	TATGCATTACGGCGATCTTCC	420
455	TCGTAGAGCTCTGGCTGGAA	436
173	GCAAGGAAGCATAGGAAGTAGAGA	150
765	AATTCCTGCAGCTACTGCATG	745
541	ATTCTGGAAGGCACGGTATG	522
379	CAGTAACAATCTATGATGAAGTCGGTCT	352
476	AATCAGTGTGTGCTTGTGTCCTT	454
850	TCGGAGGTCTGGATTGTTGT	831
850	TCGGAGGTCTGGATTGTTGT	831
161	CCTGGTGGAACCTTGATGAGC	142
1050	TGGATTAGTGAAGTCTGCTGGA	1029
524	GTTTCGCAAGTCGCAATGATC	505
1347	TTCTTCTTCTTCTGCTGCCTGT	1326
101	GCTTCACGACCAAGAAGTTCA	81
785	GAGTGGAGAGTTGCTGAAGAGTG	763
82	CGATCAGAGTGGAGAGTTGCTG	61
294	AGGCAGTGGTGGAAACAAGTC	275
529	TTCCTGGCAACTTCCAATCC	510
282	TTCTTAGCACTGTGTTGTTGTTCTCA	257
181	TCCAGTCAGAGCAGTGAAGAGA	160

167 GCATCAATTAGGCATGTTAGTGAT	144
562 AGAAGATGGCACGGTGAACG	543
366 CGGTTTCATCTTGAATGTAACGG	345
537 GGTACTGCACATGCGACTTG	518
155 CAAGTTAGCGTGAGGAGAATGTG	133
1209 AGGATCTGGAATTGTTGAGAGAAG	1186
634 CAGTCATCAGTGTATCTTGGATATGG	609
1579 GTTCCGTGCAACATCAGCTC	1560
633 CAGTCATCAGTGTATCTTGGATATGG	608
628 CAGTCATCAGTGTATCTTGGATATGG	603
139 AATCTCCGTGATGCTGAACTTC	118
435 GGAAGTGGCAATGGTGGATTC	415
2910 TGGAGGAGGTGGTGGTAGGA	2891
293 GCCATATGATAAGCCATTGTACC	271
195 AAGCGGAGCTCACAGATTGG	176
936 GGACACTTGTATCCTTCCGCTT	915
749 TAGGAGTCCAGTCGGCGAAT	730
496 AATAGTTCTTCTCCATCTGGTTCTGA	471
98 GAACTGTACTCATAACTGCTCAATGTG	72
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449 ACGCAATCTCCTATCCGAAGT	429
5134 GGAGAGACTGACTGCTGGTGA	5114
6001 GGAGAGACTGACTGCTGGTGA	5981
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1468 GGAGAGACTGACTGCTGGTGA	1448
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852 CGGTAGTGTAGTTGGTGTAGTTGGA	828
1117 TGGAGGAGAGCGACATACGA	1098
593 ATGGTCTCCAGAATGTCATGC	573
134 ACTCTCCTCCTACTTCTCCGGAT	112
674 ACTGAACCGTCCGATGATTG	655
197 TCAATTATTCTGAATCTTAGTCCATCC	171
123 AACAGCCGTCGGCATCATAC	104
1325 TCTGGTATTGCCTTGTTTCGC	1306
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1177 TGAAGGCGTAGGTGTGAAGTC	1157
628 AATCGCTTGACAACATTCATAACAGA	603
494 CGCAGTCGTCGTCGTCGTTA	475
235 TCCTTGTCACATGGCGAAGA	216
937 TCATTGATGCTTCGTCCAGTT	917

317	AACTCATCACGAAGACCAAGGA	296
1271	GCTGCTTCGCTTGCTCTTGT	1252
942	ATCTTGATCGGCTGTTCCAC	923
2598	CACTTCTTCGTCCTCTTCGG	2579
392	GTGGCTCCGAGAGGTCAAC	373
617	CTTGTTGAACGAGAAGGTACGGT	594
206	GCTTGCTGTTGATTGTTGATTC	185
235	GCTCTGACTTGTGTTGTTGTTGCTC	211
204	GCTCTGACTTGTGTTGTTGTTGCTC	180
722	TCCTTGTGGTCCTTGTCTTCC	702
650	CTGACGCTTCGCAACTCTT	631
236	ATTCAGCAACCTTCGCCATA	217
443	TGGCAACAATCTTACATCCGT	423
229	ATTCAGCAACCTTCGCCATA	210
136	CGTTGTTGTTAGCGGTGGAG	117
2372	GCAATAGATCAGGTGGCAGTGG	2351
2372	GCAATAGATCAGGTGGCAGTGG	2351
331	AACGGCGGAGAACTGTGAAC	312
331	AACGGCGGAGAACTGTGAAC	312
630	AAGAGGAAGGCGAGAGAGCA	611
269	GGCATCATAGTATCGTCGCTGT	248
143	CGGATATTCAATGATCTGACGGA	121
103	CCTGTAGGCGCTGCAGAACC	84
228	AAGTTCCACTGCAGGCGTTG	209
1172	TCCGTCCTGCTATCAATGTGG	1152
1040	CAACGACGACTTCCACGAGA	1021
177	TGGAGAGATCAGGCAGAAAGTCA	155
130	AGAGGTCTTACGGATGTTGGTGAG	107
809	AGCCTCAACTGGTCCATTAGC	789
133	AGTATTCAGCTCCAGTGTGTCCTAT	109
125	CCGGTTCAGATGCTCTCCTAA	105
323	TGGTGGTAAGTCGTGGAATGTG	302
222	TGGTGGTAAGTCGTGGAATGTG	201
375	TGGTGGTAAGTCGTGGAATGTG	354
231	TTCGAGGACCATGTTGCAAT	212
324	GCGAGTTCTTCAGCAGTCATC	304
245	GCGAGTTCTTCAGCAGTCATC	225
447	CTTGTTACGGTCTACTCCTACTCTCA	422
486	CTTGTTACGGTCTACTCCTACTCTCA	461
1677	CTCGGCAAGGAAGAAGGATT	1658
1806	CTCGGCAAGGAAGAAGGATT	1787
636	GGTGGCTTCATTCCCTCGTGT	617
680	GGTGGCTTCATTCCCTCGTGT	661
651	CATTCCTCGTGTGGTCTCCT	632

661	CATCATTGACAGAGAATCCACGA	639
155	AAGCGAACAGCAATGAGTGG	136
125	CATCCATCACCTCCACTCATCC	104
346	GAAGTGGTCCTTGGTAGAATGAGA	323
184	TTGGTCTCTGTGAGGAATAGTTGA	161
939	GCATACCATCGCTTCGTTTCG	920
273	TCACTGATTCACCGAGCCAA	254
760	CGCATATCATTGCTGATTGGA	740
578	GGCATGAAGCTCATTGTATCAGG	556
180	CGCCAGGACCACATTCTCAA	161
188	CGCCAGGACCACATTCTCAA	169
1974	TTGTATTCGGTGAATCACTTCG	1953
1829	TTGTATTCGGTGAATCACTTCG	1808
981	GACGATCTTGAAGTGGAGTGGA	960
987	GACGATCTTGAAGTGGAGTGGA	966
725	ACTCGTTCGTGTTTCGTGGCT	706
122	TTGCAAGATTGTGCGTGCTC	103
229	CACGGAAGCTGAGGCAGTCT	210
252	GTCATGTACTCGTCGCTGTGAA	231
494	TCCAGCACGATGAAGTAGCG	475
1047	CCGACTGATAAGAGCAATAAGTGTAGA	1021
1248	CCGACTGATAAGAGCAATAAGTGTAGA	1222
1116	CGACGTTTCGTGTTCTTCCAC	1097
1170	CGACGTTTCGTGTTCTTCCAC	1151
497	TCAATCCTATGTGATTCTAACGGTAA	472
223	CTGCTACCTCGGATGATGGA	204
685	CAACTTGAATCATTTCGAGCGT	665
2081	TCACCTCCGTCTTCTGTTCC	2062
2081	TCACCTCCGTCTTCTGTTCC	2062
1904	TCACCTCCGTCTTCTGTTCC	1885
2081	TCACCTCCGTCTTCTGTTCC	2062
620	TCCATTGCGTCCATTCTCTC	601
806	GATGTTGTCACGGCGGAGAG	787
438	CCAACAGCGTCTACTTCAGCA	418
576	CCAACAGCGTCTACTTCAGCA	556
509	CCAACAGCGTCTACTTCAGCA	489
404	CCAACAGCGTCTACTTCAGCA	384
576	CCAACAGCGTCTACTTCAGCA	556
513	CCAACAGCGTCTACTTCAGCA	493
522	CCAACAGCGTCTACTTCAGCA	502
607	CCAACAGCGTCTACTTCAGCA	587
230	GAATATACCATCCATAATGAAGTTGTTG	203
230	GAATATACCATCCATAATGAAGTTGTTG	203
122	TGCCTCATTGGAAGATGGACT	102

226	CATGCGTGACACGACAATTAGG	205
215	GGCAAGCAGGTACAAGATGG	196
622	TGAGTCCACAAGTGTTATCATAAGTACA	595
215	GAACATTCGTAAGAGGAAGAGCA	193
215	GAACATTCGTAAGAGGAAGAGCA	193
534	TGAGTCCACAAGTGTTATCATAAGTACA	507
583	TGAGTCCACAAGTGTTATCATAAGTACA	556
358	GGTCTTCTTGGTGGACTTGGA	338
673	TCCGCAGTAGAACATCACAACA	652
160	TGTCTTCAATGCTGCCAACTG	140
181	CGACTCTTAATGGAATCGTGAGA	159
400	CCGGAGTCAGGTACACACGA	381
155	ATAGCAGTGAGGATGAGGCAA	135
2824	GGTAGCAGTTGGCAGTGGTC	2805
164	GGAAGTTCACAGAGATGTTGGCA	142
1069	CGGATCGTCTTGTGGTGCTT	1050
1060	CGGATCGTCTTGTGGTGCTT	1041
302	GGAGTTGGTACATACTGGCGAT	281
428	GCTCTGTAGGATTGCTCTGGTT	407
428	GCTCTGTAGGATTGCTCTGGTT	407
409	CGTGGCTGTTGTTGTGTGTC	390
1442	GCAGATGAGAAGATGTTGGCA	1422
1457	GCAGATGAGAAGATGTTGGCA	1437
1389	AACGATGATAGTGATAGGAAGAGCA	1365
131	AAGAGAACATAGCCGCAGATGG	110
375	TCGCTCATAGGCATCACATAATCC	352
340	TCGCTCATAGGCATCACATAATCC	317
223	TCGCTCATAGGCATCACATAATCC	200
262	TCGCTCATAGGCATCACATAATCC	239
216	ATCGTAGCCGCATAGTTCGC	197
122	TCATCGATGAGCGGCTCCTT	103
442	AGTTGAGGAGGTGGATGGCA	423
442	AGTTGAGGAGGTGGATGGCA	423
442	AGTTGAGGAGGTGGATGGCA	423
442	AGTTGAGGAGGTGGATGGCA	423
456	CGTGCCATTGATTAGAGCCA	437
459	GGTGTCATCGTGTTCACAGT	439
299	AGTGATGGTCCAGGCCAACG	280
384	AGTGATGGTCCAGGCCAACG	365
265	AGTGATGGTCCAGGCCAACG	246
626	AGTGATGGTCCAGGCCAACG	607
1962	CGTGGTATTCAACTCCTTCCTCGT	1939
490	GCTTCAGGTGATGTTATACAGGATAC	465
256	ACGTACCAGATTACCATCTTCATTC	232

503	TTGACCATTACTGTTCCATTCTG	482
554	GCAACACTCATTCCATTCCACC	534
465	GCTGGCAACGATCACGACTG	446
237	TTGCTCTTAAGTGATACAATATTCCAC	211
180	TTGCTCTTAAGTGATACAATATTCCAC	154
122	CCATCAAGGCGAGACAAGTAAGG	100
281	GTCAGTGTTGCGAGCCATTG	262
325	TCTTGGACGGAGCCTTGAGT	306
315	ACGGTAGTCCAGCCTTGTTG	296
315	ACGGTAGTCCAGCCTTGTTG	296
315	ACGGTAGTCCAGCCTTGTTG	296
315	ACGGTAGTCCAGCCTTGTTG	296
315	ACGGTAGTCCAGCCTTGTTG	296
1129	AACGGAGCGATGAGTGTGAT	1110
633	GGCGATGGAGTATGATGATGT	613
583	TCGATGAAGCCACATTCCAT	564
121	GAATACGGCGACACGGTAGT	102
205	CAGTATGTAAGCCGTCAGATGG	184
1248	CGTCCATTCTTCGCCAGTA	1229
496	CGAAGAAGAGCATTGTGGTTG	476
395	CGAAGAAGAGCATTGTGGTTG	375
414	CCATCCTTCATCCATTCTCATTG	392
157	TGAAGAGCGACTGACTGTTGGC	136
516	TTCATATCCACACCAGCGAA	497
238	TGGTAGAATCGGTAGAATCTACGTG	214
925	GATCGTTGCGGTGAAGAATG	906
498	GACTCCGTAGAGAAGGATCGC	478
631	CTGATCCGTGTGAGCTATTCG	611
296	CCATAACCATCCTCTACCACGA	275
413	TCAGCACGTTGGATTAGATCCT	392
504	ACCGTTGTAGTTGTGAAGGCA	484
190	TCAGGAACGTTGTCAGCTTGA	170
1201	CAGGACTACTGACGAGAGTATCCA	1178
492	ACACCACCACCACGTTGATG	473
477	CGGAATGTTGGCTGTTGACT	458
453	CGGAATGTTGGCTGTTGACT	434
160	CAGCTTACACAAGTGCCTCCTA	139
127	CGAGAATTACCGGACACCATCT	106
408	GTCAAGGCTACAGAATGTGCTTC	386
122	AGCTCTTGCTTCTCGACTTC	101
667	CCGCCTCAGAATCAGTCAGT	648
405	TCTGGTAATAGCAACAGATTGTGC	382
475	CGAGTTGGTACACAAGTAGGCTT	453
877	CACGGATATACTTGGATCTAGCAA	854

360	GATTCGAGCCATCACGTAGG	341
348	AAGGACGGTGGTTGATGCTC	329
207	GCTGATTGACTGTCATCTTGAAGC	184
1197	GGAATCGCATTGGTTGCTTG	1178
1197	GGAATCGCATTGGTTGCTTG	1178
85	TCGGTATAGTTGGACAGTTGTTGAGA	60
123	TCATTACATTACTCGCAACCACA	101
858	TTGTCTCCTCCTCCATTGTGTT	837
252	CCAGAACAAGTCATAGTCAGCATC	229
154	TCTCCTCTCTTGCTGCCATTG	134
1532	GGAGTGAGTCGTGGAGACCTT	1512
1442	CGCATCTTGGCTGATTGTTC	1423
1442	CGCATCTTGGCTGATTGTTC	1423
242	TGCGATGACGGATGTAGAGATG	221
292	TGTTGGTAACTGTTGTGCTTCC	271
157	TTGCTCTGTGTCTGCTACGC	138
124	ATGGAGACCAGAGCGGAAGA	105
719	TGTAGTTGTGGTCGTGGATGC	699
161	CGGACAATTCATATACTATAAGCAGAGC	134
136	ACTCGTCCAAGGTCATCCAC	117
142	CCGCATTGTAATATGGTAACGCA	120
346	TCGTCGGTGTGCTCTAATCG	327
156	AGACGCTGCTTAATTATGTCAGTGAC	131
1152	TGTCCAGTACACTCATTGCTACATCAG	1126
585	TGTCCAGTACACTCATTGCTACATCAG	559
609	TGTCCAGTACACTCATTGCTACATCAG	583
1538	CGCCACCAATCTCACTTCCA	1519
1538	CGCCACCAATCTCACTTCCA	1519
1538	CGCCACCAATCTCACTTCCA	1519
1538	CGCCACCAATCTCACTTCCA	1519
1462	CGCCACCAATCTCACTTCCA	1443
174	TTGGATGGCTGGTAGTACATTG	153
1236	ACGGCTCAAGTAATGGTTAGAATC	1213
863	AGAGGCTTGGCACAGTTGGC	844
626	AGAGGCTTGGCACAGTTGGC	607
607	TCACTTCTAGCACCATGATTAGTTG	583
545	AAGCCATCATAAGCCATCCAG	525
311	TGAGAACTGGTGTCTTCAGAATCGT	287
238	TTGAGAGCTCATTGAGCACATG	217
267	GTATCCGTTGCTTGCCAAT	248
179	GTAAGGACAAGCCGAGCAT	160
97	TCACCTTCAGCTTCTTCATGTGT	75
97	TCACCTTCAGCTTCTTCATGTGT	75
245	CCATTCTGCTTCTGCTTCATTG	224

336	CCTCGTTGCCTCCTCTCTCG	317
373	CCTCGTTGCCTCCTCTCTCG	354
765	CTCTCTCTGAGGAATGCGATGT	744
255	CCTCGTTGCCTCCTCTCTCG	236
373	CCTCGTTGCCTCCTCTCTCG	354
298	CCATCCAGTCTCACACGCAT	279
424	ATGATGATGATGAAGTGGATTGAGAA	399
746	TTGGAGTACAAGTCGCATTTCG	726
966	CAGAATCGTGGATGGTCGTT	947
1099	TTGTATCTGTTCCGTTTCCTTCC	1078
327	TATGTCTATGGCGGCAGCAG	308
242	ATCGCTCGGTATCGTTCAGA	223
1920	TCGTTGGAATACTGAGTCGGA	1900
1863	TCGTTGGAATACTGAGTCGGA	1843
152	AGATAGACATAGGAGGCGTAGAGTTC	127
234	GCTGTTATCCTCATCTGGCTTG	213
369	TCGTTAGCATATCGGCTGTCA	349
341	TCGTTAGCATATCGGCTGTCA	321
238	GCATCATCCTCTTCCATCGTG	218
551	CCTTCACCACGCATCGCATA	532
464	TGCACTATCAACTGCACAAGACA	442
191	AATTATGGTTATGTCAATTATGTGCAA	165
225	CGAAGAACGCCTGGTCAACT	206
357	GATATTCGCCTGGAAGGATTG	337
1012	TGCCGAGTCAGACATGCTGT	993
817	CGGATTCGGATAGGTTGTTG	798
138	AGGAATAGTGAATCGGAACTGC	117
2214	TGACGGAGCATTGGAGCATA	2195
2064	TGACGGAGCATTGGAGCATA	2045
1965	GAGGCTGTGTCAATGTCGTG	1946
2012	GAGGCTGTGTCAATGTCGTG	1993
392	CAGATAAGGATAGAAGTGGTGATGACA	366
1092	GGTTGAGTGGTCGGAGTGAG	1073
1092	GGTTGAGTGGTCGGAGTGAG	1073
392	CAGATAAGGATAGAAGTGGTGATGACA	366
145	TTCTTGTCACCTGCGTATCTTCATC	122
121	TTCAGCAGACAAGCTCGAAGG	101
1829	CAGTTGCCGATTCTTGACGA	1810
316	GATTAGCGTGGAGGAATGCG	297
976	CTGCTGTTGTCTGCTCCTGA	957
671	GATGTAGCAGTATTCGATGCAATTCTC	645
2562	ATTACCGCCGCTCTCTGCTC	2543
140	ACGCCACTGTGAGAACCAAT	121
394	CATGATAGTGTAGAGCCATTCCAGT	370

644	AAGAGAGTGGCATGAGGACTTG	623
484	AAGAGAGTGGCATGAGGACTTG	463
482	AAGAGAGTGGCATGAGGACTTG	461
768	AATGGAATCAGAGCAGCGAT	749
360	CCAGACTTCTCTACAATCATCTGTTCT	334
209	TTATTGGAGCCGCTGGATTG	190
350	AAGAGAAGTGAGAAGGTGAGAAGC	327
564	GTGCCAATACCAAGTGCCAGT	545
184	CAGATTGCATCCACGTCATG	165
154	AGCTTCTGCAAGCCTTGGTC	135
135	TCAACATATGTCTATCTAGATCTTCCG	109
120	TTCCTGGCGGTCATTGTTCA	101
372	GCTGTGGACTGCGGTGACTC	353
152	GTGACCATATCAATCGACCATTG	130
179	CACTTGTCGATTACCTGCTT	159
4572	CTCGTTGTCTATTGCGTACTTGC	4550
958	TTACACGAAGCACCAGGAATC	938
175	AATGGAGCTGTCCGTGTTG	156
129	GTGAGGCACAGAACATCGTAGA	108
826	TCATCTTCCGATATTCGACATTG	804
244	CATGGAATCCGACAGCAGAA	225
1182	AAGCATCATTGAGCGGTGTT	1163
611	TTACTCCACCAACCACTCTCG	591
442	CTCTTCTGTGTCTCGGCAA	423
466	CTCTTCTGTGTCTCGGCAA	447
176	GAGAGCGATGCTTGCTTAGC	157
596	GCAGAGACAAGTAGGAGAACGC	575
744	TCCATAACGCATCGAGATAGC	724
706	ACACGCAGCATGTGTATAGCAC	685
1068	CACATGATTCCGAAGTTCCAT	1048
282	TTGTTCAAGCCATCAATCGA	263
422	TTGAAGTAATGGAGTAGGCTCTCA	399
185	TGATCGATACTGGCCTGAGTCA	164
279	TTGTTCAAGCCATCAATCGA	260
869	CGACAGTCACCAGACATACATTG	847
649	TGACGCACTTGAATAGCATCTCTG	626
599	AATGAATGGTCCAGCAATGTAGA	577
444	TCTCGTTCGTTACGTGGTTCG	424
503	TCTCGTTCGTTACGTGGTTCG	483
271	ACAACACTGTTGCGGTCGAA	252
195	TCGGATGTAGATGTTGGTGGA	175
218	TCGGATGTAGATGTTGGTGGA	198
334	CGTCGAACTGCTCCACAAGT	315
470	TGGTCGTGTTACATTGAGC	451

362	GTGAGAAGGACCACACTAGTCGTA	339
685	AACTAGTTCAGAAAGTGGACTGCTCTAC	659
232	CGAGTGAGAGTTGAAGAATGTGAA	209
1249	CACTGCTCTGATCTGAACTGTCTC	1226
153	TTCTCGTCGTGTAGATAGTGTTGAC	129
656	TGATTCTCCATCCAACGAGTG	636
722	TGAGGCATTCTCGGATAACG	703
238	TAGATATACATATTGCATGTTGCTTGA	212
459	CGTCGTTGGCAGTATTCGTGA	439
486	CGGTCTCTCTCCAGTGTGTGT	466
663	CGGTCTCTCTCCAGTGTGTGT	643
826	TCGGCTCTGGACAGTCATTC	807
167	TCTTCCAGTACAACGACCAATG	146
1875	GTGATGAATCGGAAGTTGTTGA	1854
786	TGCATCAGAACGGAACGAAT	767
1168	ATCCAACACCACCGAGCCAT	1149
74	TCCAGAGCCTCCGTATTCTTCA	53
955	ATCCAACACCACCGAGCCAT	936
302	TCCAGAGCCTCCGTATTCTTCA	281
332	TCCAGAGCCTCCGTATTCTTCA	311
334	TCCAGAGCCTCCGTATTCTTCA	313
328	TCCAGAGCCTCCGTATTCTTCA	307
96	CTCAACTTCGAGCCGAGCTT	77
106	CTCAACTTCGAGCCGAGCTT	87
2141	GCACACGAGAGAGCTATGACG	2121
242	GATAATCGCCACAACAGATCAGC	220
272	TTCGGAATCTTCTTCGCAAT	253
671	TTCGGAATCTTCTTCGCAAT	652
239	GAACGACCAGCTTGTCTTCCTTC	217
432	TCTAGTTGTCTCGCCAAGTGAA	411
308	TTCGCCAGGTGGTAATCGTC	289
1246	ATGATGACAAGAGCCACGGT	1227
1246	ATGATGACAAGAGCCACGGT	1227
633	CTAGGATAAGGTTACCAGTTCGTAT	608
1651	CTCTCATCAACATCCACATCAACT	1628
1536	CAACAAGATGATTGATGAGACACG	1513
293	ATCAGCCTCACGAACGACAA	274
1109	TCTGTTTCGTCCATCCATTTCG	1090
637	CCACATCTTCCATAACCTTCTTG	615
571	CCACATCTTCCATAACCTTCTTG	549
265	ATGCAACATTATTACAACCGATGT	242
468	GCCTAATTCCATTATGATGATGAGG	444
852	CTGTTGGATGTTGTTCGTAGCC	832
1462	CTGTTGGATGTTGTTCGTAGCC	1442

176	CCGCTGATTGATTGTCGTA	157
615	CTCTACATCCATTGACACCAC	595
540	CCAATGTGGAACGCTATCTCC	520
378	GAGTTCAGGTCTCATTATTCCATCA	354
157	TCCTTCTTCCTCATCATCCG	138
318	TCCACCTCCTCCACATCCTC	299
140	AAGCACCATCATGTCCAGTGT	120
155	GGTGGATACGCTTCAGGAGGA	135
113	AGGATGATCGTCAGGTAGTTGG	92
132	CGGTGAATAATCGTCTCTCTGAA	110
549	AACTGGCTTGATCACTTCTATTGAGA	524
132	CGGTGAATAATCGTCTCTCTGAA	110
503	TTGCTTCTACTGTGCGACGA	484
127	CGTTGATAGAATCTTCAACCGAT	105
775	TCAACTCTGGATCAACGACATTC	753
717	CCAATGCGACTGACAGCGAA	698
734	CCAATGCGACTGACAGCGAA	715
244	GGTCGGTTGTGACATTGTGG	225
244	GGTCGGTTGTGACATTGTGG	225
717	CCAATGCGACTGACAGCGAA	698
734	CCAATGCGACTGACAGCGAA	715
110	TCTTCCTTATCCATAGCATCGG	89
158	CGTCTCTGAGGAGTTGGTACTTCT	135
139	ACTGCTCACTTGGCTCGTTG	120
502	ACTGCTCACTTGGCTCGTTG	483
1066	GGTTGCTCATTACGATGTCTGA	1045
612	GGAAGAGAAGTTGGAACCTGAA	591
1115	TTGGAGTAGCTAGGTGACTTGACA	1092
649	CGATACGCATCAATGGCTTCT	629
444	TCCATCACGAATAGGCACAA	425
255	CAATCATATCGAGTGGTCTTAACAGA	230
577	GTACACGCTCTCTCTCAACTGGT	555
2063	CCATCAGTTGGAAGTGTATGCTC	2041
1918	CCATCAGTTGGAAGTGTATGCTC	1896
130	AGCCAGATTCTGCGTATGTGC	110
157	CCGAACATTCCGTGCGTATG	138
556	CTGGTGGAGCTCTCGCATCA	537
974	CTGGTGGAGCTCTCGCATCA	955
459	AATCTTGACGGAAGTACATACGG	437
289	ATTGAGCAACGGTCAGAACC	270
442	GGAACATGGAAGAACAACCTCGT	421
355	GGAACATGGAAGAACAACCTCGT	334
460	GGAACATGGAAGAACAACCTCGT	439
442	GGAACATGGAAGAACAACCTCGT	421

355	GGAACATGGAAGAACAACCTCGT	334
460	GGAACATGGAAGAACAACCTCGT	439
355	GGAACATGGAAGAACAACCTCGT	334
224	TTGTAGTTGACCGAGCATATCAGT	201
135	AGCAGCGGTCTTGTGGATGA	116
159	AGCAGCGGTCTTGTGGATGA	140
874	TTCTCGTCATTGTTGGCATCG	854
484	ACCGACATGATCGACAGGAG	465
785	GTTCAATCTCCGTGTCCTTCTCT	763
454	GTTCAATCTCCGTGTCCTTCTCT	432
450	CGGTAGATGTACTCGGTAGCG	430
672	CGGTAGATGTACTCGGTAGCG	652
303	CGGTAGATGTACTCGGTAGCG	283
120	CTGTTCCACCAACACCTCCA	101
116	TGTTTCAGCGTGTGCGACTTCG	97
124	CGAGGCTAATCTGTCTCCGTT	104
644	GGATAGAATTGCGGCGAACA	625
773	TGTTACTGCGACGGCTGCTT	754
773	TGTTACTGCGACGGCTGCTT	754
138	GCCTCGTCGTCTCTTGTTCA	119
362	AGATGGATACTGATTACGGTAGTTGA	337
3356	TTGTGGCGAATGCTCCTACT	3337
774	CATCTTCTTGATGGTTCCTCATC	752
2595	TTCGTCTTCTTCAGCAGCAAT	2575
245	ATCACTGACTCAATCCATAAGGC	223
120	TCATTTCAGCCATCCGTCGAT	101
1047	TTGTGAGGAGTGGAGTTGGAG	1027
617	CAGTTGCTCTTCCAGAATCTTGAGA	593
141	CGAGGTGTGCAGACATCAAGAG	120
1405	CAAGATGAGACTGTGGAGAGAGC	1383
2076	TTCGCTATGGTATTGGTGCTCA	2055
222	TGAATCCACGACGAGCCAAT	203
618	TGAATCCACGACGAGCCAAT	599
282	TGAATCCACGACGAGCCAAT	263
268	TGAATCCACGACGAGCCAAT	249
904	GCATGTCCAAGTGTATCAGCAG	883
82	CATCCAGGTCATCGAAGATCA	62
324	GGATGTTGGTGATGGCGAGT	305
470	GGATGTTGGTGATGGCGAGT	451
390	GGATGTTGGTGATGGCGAGT	371
487	AACTCAGATGGAGCAGAAGCC	467
520	CCTCATCCTTGTCCTTGTTTC	500
112	GATCTCATTTCAGGCAGACATATCC	89
951	AGCTCGTCATTCGTCGGATT	932

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264 AGCGGACTCTCTTCACACTCTG	243
238 GTCACCTCCTCGGCTCACA	219
472 CAGTCTGTGGAAGAATCATTGGTT	449
278 CAGAGACCGAAGAGGAGGAAG	258
132 CAACGGTCAAGTTGGTGTCG	113
131 CAACGGTCAAGTTGGTGTCG	112
537 TTCTTCGCCTCCACTACGGT	518
165 ATTCGGACGTTAATTGTGTTGTAC	142
168 ATTCGGACGTTAATTGTGTTGTAC	145
176 GATTCCTTATCAGTCGGCATTG	155
302 TCAACTGACTGTTCAATGGCTTC	280
597 GCGAAGAGCAAGGAGAGCAT	578
108 TTCACCATGAACAATCCTGACTT	85
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629 CCAAGCATCACTCGGACACG	610
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148 TTCCGGTACGAATTCATGCA	129
255 CACACCAGTCGTTAGTGTAGACAGAA	230
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425 AACGAAGTATGATTGTAGATGGCA	402
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633 TGATCGAGGACTCCGCTGTT	614
315 GCGGCAATGGTAAGAGAGTC	296
218 CACGTTCCATTGAACACTGTGA	197
135 ATGCCTGTTCTGGAAGTAAGTTG	113
308 GCACCATTAACCATTGTCACCGT	286
468 TGATAGCCGACCGAGCACAA	449
909 TGATAGCCGACCGAGCACAA	890
907 TGATAGCCGACCGAGCACAA	888
442 CCATTCTTCGAATCACCAGAA	422
266 AACCTGGACGGACTTCTTGG	247
421 AACCTGGACGGACTTCTTGG	402
323 GGTAATCCACCGAATCCGTT	304
221 GGTGGCTGACGTTGAGGAGA	202
663 TGAATCATCTCCAGCAACTGTT	642
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214 ATCTCTCGGCTGCTCATTCTG	195
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386	GGATCAGGTCGTGGTGTAC	367
218	TCACGGAGCAGCTTGGTATC	199
372	CTGGTTGGCGGATATTGTGG	353
372	CTGGTTGGCGGATATTGTGG	353
381	TTCTGTAGGCTTCACGGTCTCC	360
391	TTCTGTAGGCTTCACGGTCTCC	370
2154	TGGTGGTGGAGCATTGAGAT	2135
451	AACGAGTAGGAACATTGGTGCTG	429
1768	CCTTGACGACAATACCAGCCA	1748
142	CGACTTAACCGATATTAAGAGCTTCAG	116
1188	GCCGTTCTTCCAGTTCCTCTTG	1167
1131	GCCGTTCTTCCAGTTCCTCTTG	1110
335	CAATCTCAGGTTACGGACAG	315
329	CAATCTCAGGTTACGGACAG	309
125	ATCCGCTTCCGTCTAGTCCA	106
191	ATCCGCTTCCGTCTAGTCCA	172
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830	TCTTCACTCTCACCACGCAA	811
571	TGAAGAATCGAGTGGAAGCAGA	550
393	GTAGAGTTCAGCAATGCTTACATGA	369
622	GTAGAGTTCAGCAATGCTTACATGA	598
471	TGTGATATTCGCATATGAGATGATC	447
2182	AGAATCCTCTTCCATTGTCCTGT	2160
284	TCAGTGCGGTTATTGTTCCA	265
991	CATCAATATCTATCAAGGCAGTCCA	967
946	CATCAATATCTATCAAGGCAGTCCA	922
906	ACAAGCACGGCATTCTGGAC	887
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771	TGTTGGAATACCAGAGGTTGTG	750
856	TGTTGGAATACCAGAGGTTGTG	835
780	TGTTGGAATACCAGAGGTTGTG	759
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745	CCATGATCGATCCGCAGCTT	726
281	ACGAGCGGTTGAAGACTTGC	262
554	GGCAGTAGGCTCCGTGTCTC	535
592	GGCAGTAGGCTCCGTGTCTC	573
554	GGCAGTAGGCTCCGTGTCTC	535
592	GGCAGTAGGCTCCGTGTCTC	573
554	GGCAGTAGGCTCCGTGTCTC	535
592	GGCAGTAGGCTCCGTGTCTC	573
359	TCTCCTTCATCTGCTCTTCCA	339

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364	CCTTCTTCTGCTTCGCCTTC	345
200	TTCGATGATGATGGCTGATG	181
241	CTCCACCGCTCCTGTAGAATC	221
902	TGACTTGGCTCGATTGGATT	883
833	CGGCGAGTACGGTGTGTGTC	814
1823	GAACGAGATGATGAAGATGCCT	1802
137	AGGTAGACGTATGAGGCATAGAGC	114
384	GCTCTTCTATATTGCGAATCCAGTT	360
182	CGAGCAGCATTATCAAGGC	163
2486	CGCTCGGCTCAACTAACTCT	2467
930	GAAGGTCGTATAGTAGTGGTTCAGGT	905
148	CGAGAAGGTCATGCCATGTGTA	127
185	GGTCACTTGTTACGCGCTACTAGA	162
236	ACGACTTGAGAATAATGGAGCAG	214
236	ACGACTTGAGAATAATGGAGCAG	214
312	ACGACTTGAGAATAATGGAGCAG	290
244	CCGACGAAGAATAACAACCTGC	224
160	GTGGCTTCGGACAGTGGTTG	141
361	CCTCCTCGTCTTCTGATGATGA	340
193	TTACTAGAATAATGACAGATTGCTCCA	167
534	AAGCAGCACAAAGGACAGCGT	515
94	CGCTTCTTGGCACTAATCGC	75
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213	CAGCAGTTGGAGCAGTCACA	194
241	AACTCGATGCCACGTGGATG	222
581	CATTGTTGAGTTGGAAGATAGCC	559
569	GGAAGACCGTTGATAGGAGGA	549
569	GGAAGACCGTTGATAGGAGGA	549
540	GGAAGACCGTTGATAGGAGGA	520
207	CAGCAGTTGGAGCAGTCACA	188
569	GGAAGACCGTTGATAGGAGGA	549
569	GGAAGACCGTTGATAGGAGGA	549
686	GGAAGACCGTTGATAGGAGGA	666

172	TCCATAACATAACATGGCACATC	150
217	TCCATAACATAACATGGCACATC	195
547	CAATGGACTACAACGACCTGATTC	524
293	AATGTGAACCATATTGATCGGAA	271
686	CACCATCTGATTGGATATCGAA	665
148	CGAGTTGTTGTTCTGTTGATG	127
233	CTTAGCCTCTTCGGACAGCA	214
508	CGTTGATGAGAGAGGAGTTGG	488
147	GGTAGTGAACATCTGGATAATGGACA	122
137	CCTTGACAAGAACTGAAGCTGTT	115
120	TTGGAACCGAGGTCGATGGT	101
472	CTTCCAGTAACCAAGTTGACAGC	450
266	GAATGATTGGTGGATAGAATGCTT	243
591	GCAAGGAATTGTATTCACGATTG	569
1122	GGAACCTCATATACACATTCACCA	1099
1205	GGAACCTCATATACACATTCACCA	1182
884	GCACCACCTCGACGAGATTG	865
253	TTAATAACATTACCGTACTCGTGCTT	228
240	TTAATAACATTACCGTACTCGTGCTT	215
149	TGACAAGAGAGTTTATTCTGTAGTAGA	122
130	CTTGTCCTGATCAATTGCTACTCTT	106
639	GGTCATTCCACCATCGATGC	620
414	CCTGCGATAAGAAGCGATGC	395
461	CCTGCGATAAGAAGCGATGC	442
138	TGTTAATTGAAGAATTCAATAAGGAACT	111
577	CTGGTGGCTGACATTCCGTT	558
550	CTGGTGGCTGACATTCCGTT	531
569	GGTCGGAGAGCAGATTCAGA	550
594	GAATAAGATCAATTGCTGTATTACGAGT	567
570	TTGACGATTCTGGTATGATGGA	549
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173	GCAGAGAGTGTGTTGATGCAGAA	151
158	TGTAGTGAGATTGCGTTGGTGA	137
585	GCCAACTAATGTTGCATCTTGTGT	562
585	GCCAACTAATGTTGCATCTTGTGT	562
587	GTGATTCTTGCGACAACGGT	568
113	TTAGAACTTCGATTGCTTCCTCCA	90

556	TTAGAACTTCGATTGCTTCCTCCA	533
523	GCTATGATGGCGGATTGAGG	504
523	GCTATGATGGCGGATTGAGG	504
488	GATAACACAACGCTAACAACGC	467
1294	GCCGTGTCTGTAGTTCTTGCG	1274
1294	GCCGTGTCTGTAGTTCTTGCG	1274
354	TAACCAGCGTCACCACATTG	335
502	TCTCCTGCGATGAATCTGACT	482
534	GGTTGTGACTTGACTATCTTGCC	512
234	CACTGTGAAGCATGGTTGGAA	214
120	TCGGATGCTCGTCTCCTCTT	101
567	GGAGAACAGTGGAGCCATTGATG	545
498	GCGCGAATTCTTCTTCACTTC	478
581	CGACTTGACGGCATTGATTG	562
766	TGTCATTTCGGAATCGGTTAG	746
382	CAGCATACCAGTACCAATCTCG	361
550	CACAATCTCGTTCAACTCCACAA	527
1291	TGATTGCGACGAGATGATTG	1272
1285	TGATTGCGACGAGATGATTG	1266
2165	TCTTGTGTTGTGACTTCTTGTGA	2142
715	GAAGAATTGGCGACGGATGC	696
334	GGTGCGGTAACATTCCATTC	315
278	GGTGCGGTAACATTCCATTC	259
515	AATCTTCCAGCCTTGTCTCGAA	494
646	GAATTACGCCACACATATAATCAATG	621
812	GCGTCTGATAATTCATTGTCTCC	790
326	AATCTTGAGCATTAGTCTTGGCA	304
335	AATCTTGAGCATTAGTCTTGGCA	313
206	AATCTTGAGCATTAGTCTTGGCA	184
143	GAGGCATGCGTCCAGTTGAC	124
625	CAGACACAATTAATTATCAGTGAACAGG	598
440	TTAATGTCTCACACCGTTGCTT	419
321	GGAACCTGGCGCACTCTGTT	302
653	GGCTAGTGAATCCTTCCACCA	633
449	GGCTAGTGAATCCTTCCACCA	429
189	GTCCTTATCTACTTCATCGCTTC	166
699	GGCGGTCTTCCACACATTCTAC	678
132	GAATGCGGAATGACCACCAG	113
414	CTGCTGCGGCACATTGTCTT	395
690	CAAGACAGACTGAGTGTGTCCAAT	667
214	TGTTGCAGACAATACTGTGACTCC	191
151	TTAGGCAGGCACGGTTATCG	132
143	CGAGATCCTCGGTGTTGATC	124
128	GGAGGACGGTGAAGCAGGAA	109

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2159	CTTCTCGTCAATCACAATACCGTT	2136
2254	CTTCTCGTCAATCACAATACCGTT	2231
3337	CCTTCGTTGGTGGTTCTTGT	3318
1009	CGAGAACAAGCGAGAAGAATG	989
438	GTTCTGCGCAGCTTCAGCAG	419
221	TTACAACATTTCATAAGCAGAACATTG	196
155	GCCGACCGCATTAGGTACTC	136
123	CATTCTGAGTCGATGTTTCGGTAC	101
410	AGTGTGAGACCTTCCTCTTCCA	389
848	GAACATCTGAATGTCGAGAGTCTTC	824
903	GAACATCTGAATGTCGAGAGTCTTC	879
446	TTGCTCAGATCATCCTGCCATT	425
509	TCTCCTGTTCTCGACGACGT	490
648	CATGTGAGCGAGGTGATTGC	629
648	CATGTGAGCGAGGTGATTGC	629
277	GGCAACTGACACTGAACCACT	257
846	CGTATTCGTTGAGCAAGTCCA	826
181	CTGTGTGATGTGAGGTAGATGGTT	158
725	CTGGCTTCTCACC GTTCTTG	706
153	GGACATTGAGAGGCAGGCTT	134
875	CGCACGGACTGACTTGAGAA	856
1845	ATTGTCTCCGTGTTGAAGCATA	1824
1884	ATTGTCTCCGTGTTGAAGCATA	1863
3491	GGTGAACGAGAACTGCTGAAGA	3470
1328	GAGTCACACAACTGTTTCAGCCAT	1306
618	GAGTCACACAACTGTTTCAGCCAT	596
648	CTACCATTCTCCATCTTCTCG	627
129	CATGGAATCTGTATCACTCTGATACC	102
150	CGACTCGAATGAGCGTCACT	131
535	TGATGGAGTCAGACATGGTTGT	514
169	TGATGGAGTCAGACATGGTTGT	148
254	AGCATCGGTGGCATCACCTC	235
383	TGCTCATATCGCTTGGACAG	364
550	TGCTCATATCGCTTGGACAG	531
835	TGTGCGAATGTTCTCACGAA	816
851	TGTGCGAATGTTCTCACGAA	832
404	CAGGCTTGTGATAATTGTGTGAA	382
1464	TGGAACAACCTCTGGATGCTCA	1444
1579	TGGAACAACCTCTGGATGCTCA	1559
428	AATAGCAGCCATATCATAGGTACGT	404
278	TCAACCATACTACTTCTCCGACTG	255
137	ATAGCAGAGGCCAACGAGAA	118
151	ATTCACCACGCTGCTCTTCA	132

838	CAGGATGTGATTGTCGGTTGA	818
426	GCTTGCGAGGTGAGAATGCT	407
925	GGATGGAGCAGAAGCGTAGTTC	904
440	TGATGAAGGAAGCCACAGTCGT	419
140	TCTCTGCACTCTCTCCGTTCTGTG	117
325	AGCCGCTTACAAGGATGCTG	306
107	TACATTATCTTGCTGCTGATGACTT	83
563	GGAGACCTCTGATTCGTGGATT	542
216	GAAGAGTGGTGTGTCCAGTTGG	195
941	ATCGTCTTGAGTCGGAGTGC	922
655	ATCGTCTTGAGTCGGAGTGC	636
411	CAGTGAGTTCAGCGGTTGTCT	391
411	CAGTGAGTTCAGCGGTTGTCT	391
904	GATGAAGACCAGCAGACGAAC	884
587	CCGTGACCATCAGTGATATGC	567
700	CCGTGACCATCAGTGATATGC	680
205	TGATCTCAACCTCACGCCAA	186
1740	TTCTCTTCGTGGTTCCTCATTG	1719
1727	TTCTCTTCGTGGTTCCTCATTG	1706
269	CGCCGTAATCATCTTGCTC	250
523	TGAGCACTGGACAACCTGTACTTC	500
360	CGCCGTAATCATCTTGCTC	341
478	TCTTCAGTTGGCATCAAGAGAA	457
121	AAGAGGACGAAGAACACCGAA	101
157	AAGAGGACGAAGAACACCGAA	137
202	AAGAGGACGAAGAACACCGAA	182
157	AAGAGGACGAAGAACACCGAA	137
1649	CGTCTTCTTCTTCAACAACCTTGG	1627
121	AAGAGGACGAAGAACACCGAA	101
202	AAGAGGACGAAGAACACCGAA	182
1673	CGTCTTCTTCTTCAACAACCTTGG	1651
121	AAGAGGACGAAGAACACCGAA	101
527	CGAATCTCGATGAGAAGACACTC	505
171	GCTTCAACTTCCACTGCTCCA	151
114	TCCGAGAAGTCCTGCCAATG	95
1930	CGTTGCTATCGTAATACTGCTTCA	1907
744	GTCTTCTGTAGTATTCTTCTGCTT	718
1352	CTTGTGGCTACTCGCAGACC	1333
1584	GCAATGACTCCTTCCTGACG	1565
1584	GCAATGACTCCTTCCTGACG	1565
1546	GCAATGACTCCTTCCTGACG	1527
1546	GCAATGACTCCTTCCTGACG	1527
1560	GCAATGACTCCTTCCTGACG	1541
1404	GCAATGACTCCTTCCTGACG	1385

1404	GCAATGACTCCTTCCTGACG	1385
1380	GCAATGACTCCTTCCTGACG	1361
859	CTGTTGTTGTTGCTGGTTGAAG	838
1621	GGCATTATCATCGGATAGAATACTTG	1596
859	CTGTTGTTGTTGCTGGTTGAAG	838
1026	CTGTTGTTGTTGCTGGTTGAAG	1005
1336	CGGCGATGTCTTCCTGGTAC	1317
1883	CGACAGTGTACGAGTCCTGTTC	1862
418	GCAGTTGCTCGATAGCTGACACA	396
429	CGGCAATCTCAACACCACAA	410
936	TCTGTTGAGACGTTCTGTCTG	916
275	AGGCGTTCATCCATCCAAGT	256
366	TGAAGACACAATGGTGAGAAGTTAGAC	340
341	GCCAGCATCCAGACTGACAA	322
553	CGTAGATGGCTATGTTGGTAAGGT	530
568	GCGACCGAATGTACAGGACA	549
294	CCTTGCGGTAGTCTCCATGC	275
229	TTGAAGTGAATGATGATACAGTTGCT	204
361	CAGACGATAGTGATGATGGTTGC	339
976	AAGACGTCCGACTCATCGAA	957
320	TCTAGTTGAATTACGGCCACAA	299
648	CGAATGTGTGCCACAATATCCTC	626
1715	TTGTAGTTGTCAGATGGCAGGA	1694
945	AGATAGAGCTGTGGATAAGTTGGC	922
932	AGATAGAGCTGTGGATAAGTTGGC	909
358	CAATGATTATCGATCCGTGCA	338
5519	CGATGAGCAGTTCCAGAGTGTG	5498
264	CGAATGACAGTACGGAATGGAA	243
422	CACTCAATGTACTGCTAACAACCG	399
1755	TAGCAGCGAGACGTTCAACA	1736
2786	GTTCCATCATCGCAAGTTCC	2767
2723	GTTCCATCATCGCAAGTTCC	2704
2787	GTTCCATCATCGCAAGTTCC	2768
2906	GTTCCATCATCGCAAGTTCC	2887
3179	GTTCCATCATCGCAAGTTCC	3160
3002	GTTCCATCATCGCAAGTTCC	2983
2729	GTTCCATCATCGCAAGTTCC	2710
2996	GTTCCATCATCGCAAGTTCC	2977
3060	GTTCCATCATCGCAAGTTCC	3041
3059	GTTCCATCATCGCAAGTTCC	3040
3401	GTTCCATCATCGCAAGTTCC	3382
3674	GTTCCATCATCGCAAGTTCC	3655
829	GCGAACCGACTTGTGACGAG	810
117	GCCGTGATTCCGTATGGAGT	98

934	GCCGTGATTCCGTATGGAGT	915
325	GCCGTTGTAGATCCACCACT	306
325	GCCGTTGTAGATCCACCACT	306
325	GCCGTTGTAGATCCACCACT	306
325	GCCGTTGTAGATCCACCACT	306
126	GCATGGCTTGATCAGACTGTC	106
337	CGGTTGGCACTGGAGTTAGC	318
420	CCTTGGA TACTGGAATAGATGTGA	397
1114	GTGCTTGGATGGAGCGACAC	1095
1145	GTGCTTGGATGGAGCGACAC	1126
1083	TGGTTGATAGCAGTATTCGGTGA	1061
142	CCGCCGATAGTTGTGGTAGG	123
1623	GCTGGCAAGAACATT CACAAC	1603
1881	GCTGGCAAGAACATT CACAAC	1861
481	TCTGTGCTGAATACGACTGGTG	460
550	TCTGTGCTGAATACGACTGGTG	529
959	GTGAAGACAACCGAAGCAGAA	939
1110	GTCCACCGACTCCGAGAACC	1091
2291	GCAGAATGTTGATGTGGTGATGA	2269
95	TCATCTATTACTCGTTCATCAGG	72
114	TGCAACAATACGGAAGACTGAGT	92
317	TCCTTG TGGTGGTGGTGGTG	298
1236	AAGCTGATATCCTGGCTGTGA	1216
343	TCCTCGAATGTTACAGTTGTGAGTT	319
210	GCCAAGTTCTATGACTTCGAGACG	187
460	CACGAAGACGAAGAGATGCG	441
151	CACGAAGACGAAGAGATGCG	132
1737	GTA CT TCTGGAGATTACAGCGGAT	1714
1844	GTA CT TCTGGAGATTACAGCGGAT	1821
1894	GTA CT TCTGGAGATTACAGCGGAT	1871
274	TGATGAGACAGTGTCTCAGGA	253
316	CAGCAGGAGTGCAATTGTGC	297
225	GGATTGTGGTGGACATTGTGG	205
394	GGTTAGAGTCGCAGTTGTTGG	374
447	GGTTAGAGTCGCAGTTGTTGG	427
541	AAGTAGGTCTTGGTAAGAACTTGTT	516
207	TGCCAGAATGGTTCTGTGAA	188
913	ATCCGTGCAAGGACATGTGG	894
895	CGTGGATTATGGTATAGTTGGTTAGAG	869
560	AGAGAGAGTGGTAGATCATTCGGT	537
558	TGCAACTAGAGTCGGCTTCC	539
204	TCAATACCACGCACTACTTCCA	183
761	CCGTGCATTGATGTGAATAGG	741
778	GTCATTCCATAAGTTGTCCGTTCCG	755

778	GTCATTCCATAAGTTGTCCGTTTCG	755
892	TGGTTGATGAAGCGGAAGTG	873
496	TGATGAAGGCAGAGAAGAAGAAG	474
1282	CCATTACATTAGGCACCA	1262
1337	CCATTACATTAGGCACCA	1317
446	GTGGATGACGGAAGTTACAAGC	425
1767	AATGGTGGTTCGTCCTTCAG	1748
1061	CAGAGGTTGTTGGATGATTGAGA	1039
1061	CAGAGGTTGTTGGATGATTGAGA	1039
906	CAGAGGTTGTTGGATGATTGAGA	884
1061	CAGAGGTTGTTGGATGATTGAGA	1039
1043	CCATCTACTAATCGACCAATTACACA	1018
221	ACACTTATGAGCCTTGACGGA	201
138	TCTATTGATGAGAAGAACGGAAGA	115
135	CGTACACTGTCTCGCAGCCTT	115
177	AGCTTCCTGGTGCAGTGATG	158
196	CGATGTAAGTGGCAAGACGACTG	174
249	CGATGTAAGTGGCAAGACGACTG	227
178	TCGACGACGTTCTCGACTGT	159
1573	ATGCTCCACATCGCTCTGAT	1554
1682	ATGCTCCACATCGCTCTGAT	1663
1461	ATGCTCCACATCGCTCTGAT	1442
1581	ATGCTCCACATCGCTCTGAT	1562
1682	ATGCTCCACATCGCTCTGAT	1663
116	TGCTGTTGATACTGCTGTTGTTGT	93
831	GGAGACGACGAAGAATTAGAAGAACA	806
2366	CCATAATCACAAGGAATACGAGACC	2342
506	CCATTGTTGTGTGAACTCCGT	486
158	TTATATAATTCATAGCGTGGTACTGCTT	131
246	CGTAATTGTCGATATGGTCATTATCAC	220
315	CGTAATTGTCGATATGGTCATTATCAC	289
207	CCATTACCAGAACGACTTACGG	186
207	CCATTACCAGAACGACTTACGG	186
1659	CGTCCACCAAGTGAATGTCG	1640
1659	CGTCCACCAAGTGAATGTCG	1640
570	CACAATCGTCAATCCATCCTT	550
525	ACTTCACACGGACCACTTCG	506
213	ATTCGGAACCTGAACGGCTT	194
281	ATTCGGAACCTGAACGGCTT	262
722	AGGTAGAACACAGGAGCAATGG	701
218	TAGCTGCTTGGAAGACGCTT	199
218	TAGCTGCTTGGAAGACGCTT	199
246	TAGCTGCTTGGAAGACGCTT	227
182	CGATGACTTCGATATCTTCCG	162

1406	TTGATCGTAGATCGAGAGCAACT	1384
574	TCGAATATCGAGCCATCACG	555
1017	GATGTATTCCAGCACGAGGTAACG	994
486	GACTGTAGAGAAGGTGATGTTGGAGA	461
331	CTGTAGAGAAGGTGATGTTGGAGA	308
909	GATGTATTCCAGCACGAGGTAACG	886
709	GACTGTAGAGAAGGTGATGTTGGAGA	684
345	GACTGTAGAGAAGGTGATGTTGGAGA	320
345	GACTGTAGAGAAGGTGATGTTGGAGA	320
331	CTGTAGAGAAGGTGATGTTGGAGA	308
709	GACTGTAGAGAAGGTGATGTTGGAGA	684
486	GACTGTAGAGAAGGTGATGTTGGAGA	461
714	TCCTGTACGAATGAGGTGATCTTAC	690
352	AATCATTGGCGAGGTGAGGTG	332
412	AATCATTGGCGAGGTGAGGTG	392
345	AATCATTGGCGAGGTGAGGTG	325
291	AATCATTGGCGAGGTGAGGTG	271
462	AATCATTGGCGAGGTGAGGTG	442
554	TGATATTGCTGTGATTGTTGGC	533
365	TGATATTGCTGTGATTGTTGGC	344
146	TGATATTGCTGTGATTGTTGGC	125
114	TGATATTGCTGTGATTGTTGGC	93
321	TGATATTGCTGTGATTGTTGGC	300
517	TGATATTGCTGTGATTGTTGGC	496
1009	CACAATTCTTAGCGTGATTCTTCTC	985
117	GCTTCGGTAGCTTCCAGACAA	97
791	TGGATATTCTCAAGTGGTGTCTCA	768
260	CCAGAAGTACATCCATTGACATTG	237
1311	TGTGATAGTCCTCTCTGTGAGTTCC	1287
123	ACTGCCGTTGCTTCATCGCT	104
132	GCAAGTGCCAATCCACTCTCA	112
134	CTCAGCAGCAGCGCATGTCT	115
1993	AGACGGTCAATCGGAGTAAGC	1973
1910	TGGCTTGAATGGTGGTTGGA	1891
2304	TGGCTTGAATGGTGGTTGGA	2285
2209	AGACGGTCAATCGGAGTAAGC	2189
200	TGTGGTTCATCTGTGCCTTCA	180
126	CAACACTAGCACCTACCTTGTCG	104
232	CTCTATTCTGATTGGAGCATTC	210
438	ACCTCCTCCTCCTCCGCATC	419
252	GGCTTCTCTCTTCTTGCGTCCA	231
420	CATAACCACACAGAACTCGTCAA	398
366	CATAACCACACAGAACTCGTCAA	344
354	CATAACCACACAGAACTCGTCAA	332

183	AGACTCATCAAGTATTCCACACATCC	158
129	TTCTGTGAAGCTTCTTCTTCTGG	107
1830	GATCAATGCAATAATTGACATGTACC	1805
122	TCTTGTTCTGTGGAATTGCCA	103
295	TTGACAAGGAGATGTAATTGGAGTT	271
383	TTCGCTGTGAAGAGCATTCC	364
179	GAGAAGATCATCTGCATCACCTTGA	155
1107	AGAAGATACACATAGGAGCAGCAA	1084
197	CCATCCTCTACATTCTGCCAA	177
207	AGGCAGGCGATTCTTGACAT	188
201	AGGCAGGCGATTCTTGACAT	182
207	AGGCAGGCGATTCTTGACAT	188
556	TGTGGTATAGAAGCAACAGATCATG	532
1192	CAGCATTCCAACGAGCCGAT	1173
751	GCCGGAGTTGTATCTTCATGA	731
995	CAACTACGTAATCGGATTGTGAACA	971
595	CAGCATTCCAACGAGCCGAT	576
345	TCATTACATCTCCTCCATTAACCTGT	320
382	TCATTACATCTCCTCCATTAACCTGT	357
557	TTGTCGGATAATTGACCATTAGTG	534
874	TTGAAGGATCGTGACTATGTATCG	851
1548	AACATCACATATTCATCGTAGAGAAGA	1522
93	AGTGACGATTAGACGGCGAA	74
180	TGGCAGTTGTATTGCTCATCG	160
394	CCTGACGCTGGACAACTGCT	375
156	TTGATAGATTGTCGTGATGAAGTGGA	131
549	AACACACGAGCAATCCGAGT	530
491	TGATAAGGAGGAGATACACAACACAAC	465
1972	ATCGTCTTGGTGCTGTGTCC	1953
238	AGTTAGTTGTGGTCTTCCAGTTGAG	214
305	TGCTCCAGAGTTGCCAGGTA	286
307	AATGAGTGGAGTACCAAGTGGCTAA	284
294	GCAGTCTGGATGATGAGCA	275
145	GGTGCAGTTATGGTAGATGAGCA	123
211	GGTGCAGTTATGGTAGATGAGCA	189
811	CAGAGAGAATCGGCTCAATCG	791
236	AGTTATAGATCCTTCCTCTTCAGATGA	210
1357	CGTCCAGTTGCCATAAGTCG	1338
1501	CGTCCAGTTGCCATAAGTCG	1482
1363	CGTCCAGTTGCCATAAGTCG	1344
1507	CGTCCAGTTGCCATAAGTCG	1488
198	CCATCCAATCAGTCTCTCCAA	178
1005	AACACCAGGACACACATCGC	986
143	TTGAGTGCATTGGAACCTGGC	123

3608	GCAGTGACAGAGGAGTTCGG	3589
2799	TCAGCCACTCCGTCACCAAC	2780
229	CGAATGACATGATGTCTCTGTCG	207
419	CGTAGTCAGTAATATGAGTTGTCGCT	394
420	ACGAGGCCGAAGGAGCAGGTA	401
183	CATTACGATGAAGCAAGGTGTGT	161
567	TAACAACACTCTGACCATCTGACA	544
810	TAACAACACTCTGACCATCTGACA	787
567	TAACAACACTCTGACCATCTGACA	544
484	TCTGCTTCAACTCCACATCTCTG	462
810	CAGTTCTGGCTCGTTCTCGT	791
171	ACGACCGAGATCACTTACACG	151
193	TTCCACGAGAATCCGCCATA	174
836	CGGAGAGTAGAAGTATATGGTAAGTGG	810
147	TTCTAATTGTGGCCGTGAAGA	127
579	CATTATTCCACTGAGCCACACA	558
727	TCATTGTTCCACTGAGCCATAC	706
150	GCATAGAGTACAAGAGCTATCATTACCA	123
606	GAGCAATGAAGTAATGACAAGAAGAC	581
606	GAGCAATGAAGTAATGACAAGAAGAC	581
258	CGCTTGGTGTGATCAGTT	239
631	CACCATCGTCTACGGAATTAGTGA	608
291	AAGCAATACAATCCAAGCCAA	271
611	CCGTAGAGAAGAATCGCCAGTG	590
221	CCGTCTTCTATGACTATCCAATGC	198
264	TCTGCCTGCCTGACGCCTAT	245
326	GCTTGGAGATTGTGCGATT	307
225	TGGTAGCCTCAGAGTGGAAGC	205
600	CCACATTCCATCCATTCCAT	581
633	GCCAATGGTGTAGACTATCATGC	611
575	CGAACAAGAGCGGCTGATTC	556
242	CGCCATTGATTGTGCGCAGAT	223
254	CGCCATTGATTGTGCGCAGAT	235
481	AGTTCCGCCACGAATACTTCT	461
376	TACAGAGCCAAGAATCGCACT	356
332	TTGAATAGGCGAACGGCTCT	313
276	GTCCAGCGAACACCATCTTG	257
308	GTCCAGCGAACACCATCTTG	289
321	GTCCAGCGAACACCATCTTG	302
262	GCCAGACTCCGTAGTTCTTGAC	241
581	GACCTGGACTCAATGCGAAG	562
601	GACCTGGACTCAATGCGAAG	582
570	GACCTGGACTCAATGCGAAG	551
319	CAATGTAACGGTGATAGAGGAAGA	296

140	GACGCAGTCTCACATACAACCTC	118
199	AACCTATGTTCCGGATCATCTGC	178
212	CTTCGTGGCACAGTCATAGTATATCG	187
425	TCGGCGTCTTCTAGCTCATTG	405
2492	CCAAGAAGTGAGAATAGAGAATGAGC	2467
2350	TGAGTTGGAATGGCGTAGAATC	2329
295	TACCGGAACCTTGTGCAACT	276
157	TGTTCTAAGGAGCGTCTCTGTGC	135
750	AACACGATCTGATCTACTTCTGGAT	726
796	GGAAGCACTGGCGATGAGAA	777
957	ACACCTCCTGATCCACCATTG	937
628	ACCATCAGCAGACAATTCAGC	608
673	ACCATCAGCAGACAATTCAGC	653
628	ACCATCAGCAGACAATTCAGC	608
673	ACCATCAGCAGACAATTCAGC	653
436	TCCATCTGTCTCTCGTAAGCATC	414
152	CGTCAACGGATCTCTGGATT	133
238	CGTCAACGGATCTCTGGATT	219
145	CGGTTCTCTTGATTGCCTTGG	125
256	GATTGTGGCGTAGAGGAAGAAGC	234
674	ACGACTTCCAACATCATCACTG	653
654	ACGACTTCCAACATCATCACTG	633
474	TTATGCGGAGAAGAGTCAACG	454
123	ACGATGATGGTGGACGATGT	104
498	TTATGCGGAGAAGAGTCAACG	478
362	CAATGCTGGATGAGTCATCG	343
137	CAAGTCCAACAATCTGCTCATCG	114
155	ATGTTCCGGTGCATCGTGGAT	136
674	AGCACCGCAGATTCCAGTTG	655
231	TTGTGTGATGGCTCGGATGA	212
176	TTCTGCTTGGTCTCGGCATC	157
359	AGCAGTCGGCTCGAATAGCT	340
122	ATCAACAAGGTGAACGGTAGAGAA	99
1255	CAGGTTCGTCTTCGACAAGC	1236
1164	CTGTATGGCGATAAGAGAAGAATG	1141
444	CGAGATGGTGGTGAACGAGT	425
364	CATCTGGCTCTGCTGCTGTT	345
777	CCATCCATGCGTTATCAGTGT	757
116	ATTCTCGGCAGGAAGCGTTG	97
1040	AGACGCTTCCAATCAGACGA	1021
720	CATCAGACATCACAACAGCGA	700
122	GATAGCTGCGGCTTCAGCAA	103
386	TTGTCCGTATTGTCCGAGCA	367
466	TTGTCCGTATTGTCCGAGCA	447

303	TGCTCCTGCGACAGTAACAAG	283
170	GCTAGCATACAATTGCGTCCA	150
202	GTGACCATCTCACGCCACAA	183
329	GGAAGGTCAGCGATCTGTCC	310
636	ACGACGAATGTGAACGCAGT	617
981	TCCAATCCACCAACCGAATG	962
344	CAGCGGAGGCACCATTCTAG	325
1009	CGAGAGCAATGATAAGAGAACGC	987
1009	CGAGAGCAATGATAAGAGAACGC	987
238	CAAGAATCGGCAACAGAAGG	219
503	TGGAAGGATGTGAATTGAGGTAG	481
503	TGGAAGGATGTGAATTGAGGTAG	481
503	TGGAAGGATGTGAATTGAGGTAG	481
319	ATTCAATGGCGTCTGACTGC	300
315	ATTCAATGGCGTCTGACTGC	296
271	CCGCACACCGATGAATACTG	252
247	CCGCACACCGATGAATACTG	228
142	CCGCACACCGATGAATACTG	123
400	AAGGAAGATTGAACAACGCAA	380
504	TGTAGTTCGGAGAGCAGTTGG	484
603	AACATTACGCATAACATTGATAGGAT	578
652	TGAGATTGTCCTGGCAGTTGA	632
463	CTTCTCACGTTCCGAGCATT	444
408	ACAGTTCCTTAATGCGATCTGAGC	386
1162	GGATGAAGTCGTTGGTGGCT	1143
385	TGGATTGGCAGAAGAGTACGA	365
385	TGGATTGGCAGAAGAGTACGA	365
581	TGAAGGAAGCCTCCGAGATC	562
581	TGAAGGAAGCCTCCGAGATC	562
1251	GGTTGTTCTGGATGAATGCAG	1231
132	TTCAGGAGAGCGATAGATGCAA	111
641	TGGCGGAGTGAGCAAGTCTA	622
124	TTGTTTCATCCGCAAGTGAA	105
707	GAAGGCGTTGGATGACTATGC	687
602	TCAGCAACAACCTCTCCAAGT	582
465	ATGCTTCATCCAATGCTCCA	446
565	CGACGATTGAGAGGTTCCAG	546
124	GCACTATGAACACCAGCGAGT	104
565	CGACGATTGAGAGGTTCCAG	546
175	CCTTCCGTAGACTCCTCTTCCA	154
175	CCTTCCGTAGACTCCTCTTCCA	154
626	GGCGTCACAAGCATCGTAGA	607
1738	TAATGTTCGCAGAGCCGTTGT	1719
1071	CACGTCCATAAGAGAAGGTGAGC	1049

946	CACGTCCATAAGAGAAGGTGAGC	924
958	TCTATTCACAGGAAGTTATGCGTCA	934
833	TCTATTCACAGGAAGTTATGCGTCA	809
702	TGTGAAGAAGACGATAACGGTATGC	678
667	TGTGAAGAAGACGATAACGGTATGC	643
240	AAGTGCCACATCGTCACGGA	221
409	TTCGTGAGAGTCAATGAAGTCGT	387
500	TTCGTGAGAGTCAATGAAGTCGT	478
1272	CACACTCACAGATGGCTTCG	1253
462	CACACTCACAGATGGCTTCG	443
1162	CACACTCACAGATGGCTTCG	1143
238	TTCGGAATAATCACATCTGCCT	217
129	TTCGGCGAGAACTTCTGTAGA	109
202	GCCGCCTTCACTTCTTCCTT	183
1580	AAGCCAATAGATCAGCAACTCC	1559
80	CCGTAGACAGCTTCAGTTGCCA	59
698	ACATTATTGGCAACAAGAACCTC	676
818	ACATTATTGGCAACAAGAACCTC	796
2002	GACCAGTTCTACCAATTCTGTGAGT	1978
376	TCGAAGCCTTCAGTAACAATACG	354
372	TCGAAGCCTTCAGTAACAATACG	350
376	TCGAAGCCTTCAGTAACAATACG	354
372	TCGAAGCCTTCAGTAACAATACG	350
1402	TGGAGAGGACAGTTGACAGACG	1381
400	CGGTAGGCAACAGAAGAGGAC	380
1615	TGGCTTGATGGTGAATGGAT	1596
1636	TGGCTTGATGGTGAATGGAT	1617
565	GGTGCTCGATATGACCGACA	546
1170	CGGACCACCAGTAGCAACAGG	1150
265	CATAACTTCCAACCTTGCTTGC	243
544	GGAGGTTACTGATGAACTCGGTA	522
1936	GCTTCTCAGCCTCCGAATGC	1917
312	GCAACCACGAACGAAGTATGTAG	290
318	CAAGAGAATCCGTCCGCAAG	299
262	AGGACGTACTTCAACTACTGCCTT	239
345	AGGACGTACTTCAACTACTGCCTT	322
694	TCTTCCGTGATCCTCTGTGATAC	672
169	TGACTCATCTTGTGCTTCTTCTCG	146
113	GGTGAGTAGATGTTGTGAAGACG	90
835	ATCCTGCTCCGAGAATTACCG	815
379	TGGTCCTTCGGCTAACAAGA	360
761	TGGTCCTTCGGCTAACAAGA	742
333	TACTCCAACGGCTCCACGAT	314
333	TACTCCAACGGCTCCACGAT	314

333	TACTCCAACGGCTCCACGAT	314
333	TACTCCAACGGCTCCACGAT	314
121	GAGGCAAGAGAGGCGAGCAA	102
551	AATTGTTGTTGGACGATTACAGC	529
223	GCTCTCACTTCTTCTTCGGATG	202
1033	TAATCGGCGACGTGTAGACG	1014
363	AGTTGAAGCGAATGGTTCCTT	343
363	AGTTGAAGCGAATGGTTCCTT	343
603	AAGAAGGATGACGAACAGAGAAGT	580
996	TGGCATCTCTGGTGGTGGTG	977
996	TGGCATCTCTGGTGGTGGTG	977
996	TGGCATCTCTGGTGGTGGTG	977
1321	TGGCATCTCTGGTGGTGGTG	1302
1321	TGGCATCTCTGGTGGTGGTG	1302
1321	TGGCATCTCTGGTGGTGGTG	1302
152	TCTGTACTACGTGATCGAATCAGAA	128
312	CATTGAGAGCGTTGACCTTGT	292
132	CATGGCTTGAACCTTCTCGT	113
542	GTATTGTCCGACGATGGCTT	523
542	GTATTGTCCGACGATGGCTT	523
691	GTATTGTCCGACGATGGCTT	672
1578	CATTCGCTGCCTGTTCTCCA	1559
546	CGGCTGAGGATTCTTGACTG	527
2363	CTGCGAGACCATCCTTCATC	2344
416	AGTAGAACAAGAGCACAGCACCA	394
176	TCTTCAACGACTGTATCATTATAGCAT	150
749	CTTGGCGATGTGCTCTGGAC	730
249	TTGTGATTGTGTCCTTGTAAGTGAT	225
164	GTAACAGATGTTGCGATTCTGG	143
120	GTAACAGATGTTGCGATTCTGG	99
773	TTGACATTCAAGCCGCTTCT	754
1135	GGAGTATGAAGCGAGCAAGGT	1115
230	AAGTTCTTGGTGTCTTGATGGTC	207
123	GCATTCAGCAACAGCAACCA	104
191	GACCACATATCGTGAAGTATCC	169
490	ACCGTTGACTGAGGTGTTCC	471
1726	GAAGAGGAATACCAATAGCAGACAC	1702
304	GAGAGATGTGGAACGGAACGA	284
321	CATCATGCATCCATCGTTCTG	301
256	GTTGTCATGGTAACACTTGATAGAAGA	230
623	GCTTCCATTGAATGATTGAACA	602
390	TGTCATATCGAGAAGCAAGATCA	368
1071	ACTGTATAATCCGTATTGTTGACTGC	1046
167	GCCACGTCATCGGAGTAGTC	148

935	CACGGCTGTTCTTGTCTTCTTGA	913
242	AATACATACAACGGCGACGAG	222
224	AATACATACAACGGCGACGAG	204
380	CGAATGGAATGATCGTATGGC	360
145	TCGTTGATCGTTCTCTTCAGC	125
226	ATGTGTTGGCGTAGGCTTGG	207
501	CTCGAACGCCATCACAATGC	482
227	CTCGAACGCCATCACAATGC	208
173	CCAGCTCCTCCTTGTTGTACG	153
121	TATGGCCGGTAATCCATTCTG	102
883	GCAGATACTTGTCTTGAACGAT	861
883	GCAGATACTTGTCTTGAACGAT	861
906	GCAGATACTTGTCTTGAACGAT	884
1524	GCGGAGATGTATTGGAGGATTC	1503
1464	GCGGAGATGTATTGGAGGATTC	1443
300	CTCGCACACATTGTGGAAGTAC	279
909	TGAACATTGATTGGCATGAACA	888
1704	CGATGACAACAGTCCGTATCC	1684
1688	CAGATGGTCCACCGTATGTTT	1668
185	GGACAACCTGATATCCACTTCA	163
1043	TTGTTCAACTGGAGGATAGTATGC	1020
1054	TTGTTCAACTGGAGGATAGTATGC	1031
851	TTGTTCAACTGGAGGATAGTATGC	828
862	TTGTTCAACTGGAGGATAGTATGC	839
1043	TTGTTCAACTGGAGGATAGTATGC	1020
1054	TTGTTCAACTGGAGGATAGTATGC	1031
498	TGGATACAAGGTCGAGAATCGT	477
376	TCCTTGTCTTCTACTTCTCCTGAT	352
527	TCCTTGTCTTCTACTTCTCCTGAT	503
570	TACGGTCGGAGCAGTCAATG	551
2121	CAGTTGATTCGGTGTTGTTTCG	2101
2121	CAGTTGATTCGGTGTTGTTTCG	2101
516	TTCTGGAGACGGTGGACGAG	497
271	TTCTGGAGACGGTGGACGAG	252
847	ATAGAATGAACAGGATAATGACCAGAA	821
1642	CCAGTTGACATACTTCACCTCTTG	1619
1720	CCAGTTGACATACTTCACCTCTTG	1697
148	TCTGTAGTCGCTCTTCTGTTGG	127
148	TCTGTAGTCGCTCTTCTGTTGG	127
1444	GCTCTAACAGAGATTCGTTGATTG	1421
139	GTTGCTGCTTGGAACGCTCT	120
308	ACTTCTTCATCATCAATGTCGCT	286
241	GCCAAGTGTGTCAGCGAACC	222
266	GCCAAGTGTGTCAGCGAACC	247

250	GCCAAGTGTGTCAGCGAACC	231
209	TCTTCTCGTGCTACTCGTTCTTC	187
146	GTGAATTGTTGTGCCGTCAGTAC	124
535	AACTCCAGGCGTGTCCAGAG	516
535	AACTCCAGGCGTGTCCAGAG	516
377	AACTCCAGGCGTGTCCAGAG	358
242	GCTTCTGGAGTTGAGCAAGG	223
389	GCTTCTGGAGTTGAGCAAGG	370
536	CAACACAAGCACAACTGAATCC	515
227	CGAATCCATCCATTGTCCAA	208
123	CCTTCATGCCTAGTTCAAGCCTT	101
1583	CAACGACGACAGGAGGTGGT	1564
774	AATGAGTAGCGTGGTTGGACA	754
774	AATGAGTAGCGTGGTTGGACA	754
964	AATGAGTAGCGTGGTTGGACA	944
791	AATGAGTAGCGTGGTTGGACA	771
735	AATGAGTAGCGTGGTTGGACA	715
735	AATGAGTAGCGTGGTTGGACA	715
925	AATGAGTAGCGTGGTTGGACA	905
752	AATGAGTAGCGTGGTTGGACA	732
2170	ACGGAGCATCGGAAGAACAGT	2150
1278	CGGAGACCAAGTGTAGCCTTGC	1258
851	CGGAGACCAAGTGTAGCCTTGC	831
867	AATGAGCAGCCAGTGAACCA	848
4854	TTGGCTTGATGTTGTGTGGA	4835
5442	TTGGCTTGATGTTGTGTGGA	5423
5374	TTGGCTTGATGTTGTGTGGA	5355
1635	GGTGAACACTATCAGCAGGTAGCG	1612
2128	GGTGAACACTATCAGCAGGTAGCG	2105
4946	TTGGCTTGATGTTGTGTGGA	4927
4405	TTGGCTTGATGTTGTGTGGA	4386
483	GGTGAACACTATCAGCAGGTAGCG	460
187	GGATTGCGACAAGTTCAGTGT	167
1026	AACAGTTCCAATTACCGAGAGC	1005
1301	GTGAGAGTTGGAGCGGTCTG	1282
145	CATAAGAACTACCAACTGAAGAGAGAAG	118
678	AACGATACTTCCACCATCTCCTT	656
923	TGACGAACGCATTACACATTG	903
689	GAAGGATCAAGTCCATGAGCAA	668
1851	CTTGAGTTGCTCCGATTGCTT	1831
1851	CTTGAGTTGCTCCGATTGCTT	1831
1851	CTTGAGTTGCTCCGATTGCTT	1831
1851	CTTGAGTTGCTCCGATTGCTT	1831
938	CTTGAGTTGCTCCGATTGCTT	918

938	CTTGAGTTGCTCCGATTGCTT	918
938	CTTGAGTTGCTCCGATTGCTT	918
938	CTTGAGTTGCTCCGATTGCTT	918
505	CAGTTCCAGATGACCACGATG	485
358	CAGTTCCAGATGACCACGATG	338
810	CATGAATCCTATTGGCATGTACA	788
856	AATTGGTGTATGCACCTAATTGC	834
257	TGAAGACCTAATACTGGAACACGAA	232
257	TGAAGACCTAATACTGGAACACGAA	232
1221	TGAATGTAGGCTCTGTGGCA	1202
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438	TGATAGCAACATTAGACGGCAA	417
438	TGATAGCAACATTAGACGGCAA	417
612	TTCCTTCTCCACACAGCGAT	593
294	GGTGGCTATCATCGAGGAGA	275
752	GCATACTCTATAGCAGTCAGCATATCG	726
126	AGAAGACTAATGTAGCAGTTCCAACA	101
1430	ACAGTAAGTGCTGCATATACTCCAA	1406
125	TCTTCAGGAACGAGGATGAGA	105
220	GTTCCACTATTGACACTCTCCACA	197
118	CGAATAACATGATATCTCGCCTT	96
1934	CACAGTCATCAAGATTCTCCGTT	1912
1278	CAGTGGAGAGAGGCGGAAGA	1259
344	TGTTGGATTGATAATGACAAGAGC	321
414	TTCGCCTTGAGATCCGACAA	395
146	TTCATGTGATCCACGATGACC	126
170	CAGGCTGCATCTGAGATAACG	150
384	GGCACAGTTGAGACGAGGAT	365
666	CGTGGCAATAGCTCCTCCGT	647
154	GTTCTCCGACTGGTGGCTTG	135
366	CCGGCTCTCAATAATCGCTA	347
531	CCGTCCGTCACTAGGAAGTTC	511
525	GGCCAACTCATACTTGTCAACA	503
217	TTGGAATGACAAGGATTGAGGAG	195
233	CTGGTGCATGGTCCAGTTGG	214
199	AAGAGCCGTCGGTGATGACT	180
414	CGTGATTGAGAGGCACATTG	395
199	ACCACCACCACCATTGTTCC	180
263	TGTCCAACATAGCACGCAGT	244
784	GCACAAGTGGCACATCGGAA	765
417	GCACAAGTGGCACATCGGAA	398
449	GCTGTTGATGTACCGACTGTCA	428
165	AGCGAAGAACATCCTCCACTGA	144
1588	GTATGCTCGTCCTGAATTGTAGG	1566

1217	GTATGCTCGTCCTGAATTGTAGG	1195
1111	GTATGCTCGTCCTGAATTGTAGG	1089
2335	GTATGCTCGTCCTGAATTGTAGG	2313
1420	TCTTGATCCTTCTGGAACCTCGTC	1398
193	AATAGCTGTCATAACACATCCGATT	169
202	AAGGTACGGACGGTGTAGCG	183
477	TATCGTGGTCCTCCTCCTCA	458
560	GGATCACACTGTCTTCTACAGGAAT	536
185	CCTAACCGTAAGCCTGAACCT	165
206	CGTGCCAGATGTTGATTGATTG	185
95	AATTGACTATTAACAGTGTCCACTGG	70
264	GCTTCTGGTTCAGGCTCTCC	245
936	GACTTGTGAACTTGTGTTGGAGA	913
633	GCCACAATCAATCCGTGTCTAC	612
2189	GCGGCATAAGCGATAAGGAA	2170
1344	TTGTTACAGCACCGTTCATCTC	1323
1288	TTGTTACAGCACCGTTCATCTC	1267
1060	ATTGAGCCAGGATACGGATG	1041
528	GCGTCGAGCTTCTTCCTTGA	509
516	CAGAAGACAAGGAAGTAGCAGATG	493
207	TGATTCTGTTATGATTCTGCCTACCA	182
1534	AACTCGCCAATCACTCCACTT	1514
1633	AACTCGCCAATCACTCCACTT	1613
195	AGTTGTTGCGATGGCTGAAG	176
783	AATAGAAGATCCAAGTTCCGACAC	760
651	CCGTTGTCGTGTTATATGTGTCA	629
388	AAGTAACCATTGTCAATTGTTCTT	364
411	CTGAGCGGTTGCGAAGATTG	392
579	TTGCCATTGCTCACTGACAA	560
284	TTGTTGGATATAATGTGCGAACTTCA	260
308	TTGTTGGATATAATGTGCGAACTTCA	284
673	GGAACAATATCCATACAGCCACA	651
3071	TCTTCATTTCATCGCATTCTCAT	3050
581	GCCTCGTTGATTGTGTCCGT	562
164	TGGTGTGTGACGAGTTCTTAGC	142
222	TGAGAATAGTCCGAAGGCCTT	202
826	TGGTGAAGTCGGTGAGTTGA	807
380	TTGAGCACAATTCCGATGGC	361
487	TGCCAGCATGACTCGTTCTG	468
285	CGATCATTGAATATCCACATCCA	263
354	GATGTAGTCGGTGCGTGTCT	334
163	ATTGTCGCTTGGCTCGTGTA	144
586	ATTCCAGAGCCATTACGAC	567
135	AGTCGTAGGTGATCTATCTCCATGC	111

382	CGACTGTGAATTGTGGATTACTGTT	358
977	TGGCTGAGAGATGATCCTGGT	957
977	TGGCTGAGAGATGATCCTGGT	957
382	CGACTGTGAATTGTGGATTACTGTT	358
483	CGACTGTGAATTGTGGATTACTGTT	459
786	CGACTGTGAATTGTGGATTACTGTT	762
693	CGACTGTGAATTGTGGATTACTGTT	669
786	CGACTGTGAATTGTGGATTACTGTT	762
382	CGACTGTGAATTGTGGATTACTGTT	358
1011	CGACTGTGAATTGTGGATTACTGTT	987
588	CGACTGTGAATTGTGGATTACTGTT	564
157	GGTATTGCAACAACAACATGTACA	134
1660	TTCGTTGACTCGTCTGGCAA	1641
1666	TTCGTTGACTCGTCTGGCAA	1647
1666	TTCGTTGACTCGTCTGGCAA	1647
1637	TTCGTTGACTCGTCTGGCAA	1618
1543	TTCGTTGACTCGTCTGGCAA	1524
1375	TTCGTTGACTCGTCTGGCAA	1356
1660	TTCGTTGACTCGTCTGGCAA	1641
1666	TTCGTTGACTCGTCTGGCAA	1647
1315	GCATCCGCCAATAGCAATCC	1296
353	ATGAACATTGTATCGTGAAGCG	332
387	AGCCTGTGACACTAATGCAGGAAT	364
496	AGCCTGTGACACTAATGCAGGAAT	473
1004	TACGACAACCACCATCCGAA	985
1061	TACGACAACCACCATCCGAA	1042
1065	CGGAGGAGTGTATAGATAGCC	1044
891	TCTAATTGCTTGCTGACGACACA	869
914	TCTAATTGCTTGCTGACGACACA	892
362	CTTCCACTTGCGGTTAGACG	343
337	TGGATTCTGGAGCATTACACG	317
614	TGGATTCTGGAGCATTACACG	594
337	TGGATTCTGGAGCATTACACG	317
360	ATTGAGGATATTGTTGTGCGAAT	338
360	ATTGAGGATATTGTTGTGCGAAT	338
210	TGATGACAACACTGATATCAAGAGC	186
314	ATTGAGGATATTGTTGTGCGAAT	292
335	GCAACAAGTCCGACGCTCAG	316
517	TTAAGAGCTGTCTTGATGTATGGC	494
3463	GTTAATTCTTGCGTTGGTTGC	3443
3228	GTTAATTCTTGCGTTGGTTGC	3208
3202	GTTAATTCTTGCGTTGGTTGC	3182
3255	GTTAATTCTTGCGTTGGTTGC	3235
3327	GTTAATTCTTGCGTTGGTTGC	3307

3282	GTTAATTCTTGC GTTGGTTGC	3262
3336	GTTAATTCTTGC GTTGGTTGC	3316
3297	GTTAATTCTTGC GTTGGTTGC	3277
187	TGGATGTGGAACGGAAGATC	168
187	TGGATGTGGAACGGAAGATC	168
238	TGGATGTGGAACGGAAGATC	219
180	TGGTTGGTTCTTGAGCCATG	161
167	TTCCTGTCCAGCGGCAGAGT	148
120	TTCCTGTCCAGCGGCAGAGT	101
163	TTGGATGTGGAACAGCAGATC	143
159	TGGATGTGGAACGGAAGATC	140
115	TTGGATGTGGAACAGCAGATC	95
72	TTCCTGTCCAGCGGCAGAGT	53
127	TGGATGTGGAACGGAAGATC	108
4937	GGAGAGCACGAGACCGAACG	4918
130	GGTGAATATATGCGTGTTTCG	110
184	TTCTCTTCCAACCATCATTCG	164
184	TTCTCTTCCAACCATCATTCG	164
1411	GATTCGTTGTCTGAGGTTCTTCTTC	1387
1411	GATTCGTTGTCTGAGGTTCTTCTTC	1387
117	TTGTGTGGTCTTCCGCTGAT	98
122	TTGTGTGGTCTTCCGCTGAT	103
437	GATAGCAGCACCGAGCCTTG	418
280	CAACAAGTCCATTGAGTTCCTCT	258
1378	GATGAAGTGACAAGGAATGAGAGA	1355
1231	CATACGGATAGTCAACAGGAAGGTG	1207
146	GCTTCTGTGCTTGGTCTTCC	127
279	CCAGAATAGACCTTCTTCGCATT	257
437	CACAAGTGGATCTTCTTGGCTT	416
377	GCAATAAGTGATTCTTCTTCCTTGT	353
1616	GTGGTGCTCCGAATGATGTC	1597
1717	GTGGTGCTCCGAATGATGTC	1698
1049	GTGGTGCTCCGAATGATGTC	1030
1616	GTGGTGCTCCGAATGATGTC	1597
1597	GTGGTGCTCCGAATGATGTC	1578
1717	GTGGTGCTCCGAATGATGTC	1698
167	AACTACTCCTTATCACTCCTCCTCAA	142
245	CCGTTGCCACTTCTCACTTACTTAC	221
344	CTGATTGTGCGATGATAGCAGTTG	322
1826	GAACCAACGCAGTCGCTACC	1807
1948	GAACCAACGCAGTCGCTACC	1929
414	TTCCTACACGATGACCAAGTATCC	391
1826	GAACCAACGCAGTCGCTACC	1807
1948	GAACCAACGCAGTCGCTACC	1929

894	GATGGTGATGGTGAACGAGACA	873
204	AATAACGATGTGCCTCCGATAG	183
511	TGGTAGAGTCGGTCGCATTG	492
511	TGGTAGAGTCGGTCGCATTG	492
549	CATGCGTAGACTAGCGATCCA	529
1039	GGACCATGAAGAAGATATTCGTCA	1016
172	CACAGGCATTCATCAACTCTTCG	150
264	TGGCGGTAGTGAATGTAGGC	245
258	TCATCGGAGAGCAGTTGTGGT	238
867	TCTCGTCGGTTGCACTGCTC	848
91	AGGCGGAAGAGGAAGCAGTG	72
776	CTGGCAGGTAGCGGTAGAGG	757
419	CCACTGCTGAACAGAAGAAGATAG	396
264	GCAGGAGGTGATAGGTTGGC	245
1014	GGACGGTTACTGAATCGCAA	995
746	CCAGGTCGTTGTAGGAGCAT	727
135	CTTCAGGTGCATTACATGAGACTT	112
765	TGCATTGACAGGCACCACAA	746
659	GAGTCGATGAGTGCAATTCGA	639
1034	CGAGTGAGTGATGGCTGAACG	1014
382	AGACGTATGAACCGGCAACA	363
222	GACTTCAGCAACCAATGACTCA	201
153	CCATGTTCTTGACCACCTCCA	133
150	CCGTCGGTAAGTCTTCTGACA	130
838	TGGACACAAGATGAGGATGGT	818
191	TCATTGTGGACGGTTGTGGA	172
517	TGTGAGGTGGTGGAGGAGGA	498
129	CGACTCAAGGTTAGAACCACTCTCC	104
343	TGTCGATGAGAAGTGGAGACC	323
532	CGCCGTA CTGTTCAATGAGT	512
579	CGCCGTA CTGTTCAATGAGT	559
923	AATCGTGAGGAATCTCCAACAGAA	900
588	GAAGATGTAGAAGTTGTTCCGAGTC	564
369	TCGGTTGGAGAAGGAAGGAC	350
368	GAGAATCTATCGGCGACAGC	349
500	GCTCTTCTTGTTGTTCTGCTTGG	478
1291	AAGACACGAGACGACAGCGA	1272
833	AAGACACGAGACGACAGCGA	814
576	GTCCGAAGTATGCTCCGAAG	557
613	GTCCGAAGTATGCTCCGAAG	594
871	CAGTGTCGTACATCATTGGAAGA	849
695	TTGATGAAGCACACACGGTT	676
1199	AGTTCCAGTTGGTATGTTGTGTTCT	1175
808	GAACGACAGCTCCGACAGAA	789

519	CGCTTCATTGTCTTGTC CGA	500
519	CGCTTCATTGTCTTGTC CGA	500
607	GCGCCTTGTTGTCGTT CATC	588
598	GCGCCTTGTTGTCGTT CATC	579
652	CAATGTTGTTGGAAGTGAATATGC	629
927	CCATTAGGAATCTCATTGTAGAGTCACA	900
1205	TCACTTCCTGTTCCACTTAGCA	1184
1154	TCACTTCCTGTTCCACTTAGCA	1133
395	AATCGGAACCTCCAGGCATT	376
601	GAGACGGCTGCTTACGATT C	582
125	CCATCACGTCGAGGTGAAGC	106
118	CCATCACGTCGAGGTGAAGC	99
676	GAGATGACGGCAGCAAGGAT	657
406	GATGCTTCGTTGTATAAGTCGGA	384
525	GATGCTTCGTTGTATAAGTCGGA	503
406	GATGCTTCGTTGTATAAGTCGGA	384
525	GATGCTTCGTTGTATAAGTCGGA	503
406	GATGCTTCGTTGTATAAGTCGGA	384
525	GATGCTTCGTTGTATAAGTCGGA	503
1112	TGTCACAGCAGATGAATCAGAGT	1090
194	ACGCACATTCCTCCATCAGA	175
1558	CGCTGCTGTTGTGTTGCTCA	1539
342	CATAACTGCTCCTGAGTGTCTT	320
1197	GAAGACATCCAGAATATCCTCCAA	1174
391	GATTATGCCGTAAGAACGAACGTC	368
293	TTGCTCATGCTGACACGCTT	274
464	TTGTCACGGTCATCTTCCTCTT	443
324	TCCTCCTTGAGCGATTGTGA	305
140	TGATCGAGAGCTTCACAGTGTG	119
478	GACGATTGCGGTATGGTTCC	459
221	GATCGGTACACTCGTCCTTGC	201
197	GCGATGAAGAGGACGGAGCT	178
319	CCTTAACCATCGCTTGTAACG	299
132	GGAGTCGAATGTGACACACTGTT	110
148	CGGTTGGAAGTATGCAAGTGATG	126
465	AAGGATGTCGGCTGTGATGA	446
360	AAGGATGTCGGCTGTGATGA	341
550	GCCAACGGAGGTCTACTTCG	531
204	CATTGTCCAATCGCATTATGTC	183
287	CATTGTCCAATCGCATTATGTC	266
230	TCATTGTCCAATCGCATTATGTC	208
234	CGAAGGTTGCTCTGGTTGTC	215
606	AACCTCCGACGACAACAGAA	587
222	AACAACACGAGCATATACCATAGC	199

467	TGTTCCATCGGTGTATGTCCA	447
913	CCGAGACAAGTCGTGGAACA	894
785	AACGACATTGATAGCATTGAAGTC	762
464	CAGTTAGTCATTCTGTATCTCATTCCA	438
122	TCATTCTCCACGTCATGTTCTC	101
125	GTAGGATGTGTTGGTAGAGAAGGTC	101
504	CCACTTGTCTGAACCACCGA	485
1174	TGGTGACATAGTTGGTTGGAGA	1153
669	AACATAATCCACATAACCTTCCACTA	644
129	TGATGTCAGGTAACAATACGAGGTCT	104
500	CATTGCCATGAGCCAGTGAG	481
2324	AACTCTGGTCTGTCTTCAGGCTT	2302
106	CAATACCGTCGCACAAGGAG	87
182	CAATACCGTCGCACAAGGAG	163
271	ACTTGTGATCTTGGCAACCGT	251
418	ACTTGTGATCTTGGCAACCGT	398
419	ACTTGTGATCTTGGCAACCGT	399
255	TTGCGGTTCTCTCCTTGCTC	236
291	ACTTGTGATCTTGGCAACCGT	271
329	ACTTGTGATCTTGGCAACCGT	309
325	ACTTGTGATCTTGGCAACCGT	305
520	ACTTGTGATCTTGGCAACCGT	500
222	TGACTGCCAACGATGCTGAC	203
419	ACTTGTGATCTTGGCAACCGT	399
255	TTGCGGTTCTCTCCTTGCTC	236
195	GGAGTCGAACAAGTTGAGGATAGG	172
82	CATACTGGTAGGATCGTTGCG	62
156	GGCTGAGGACCAGGTTGAGC	137
354	GGCTGAGGACCAGGTTGAGC	335
475	TCATAATGAAGAGGTTGATGACTGC	451
1689	GTGTCCGACGTGGTTGACCT	1670
737	TTCAATGGAATAGTCAACAGGATG	714
627	CGATGAATGACTGGTGGACTC	607
154	TGATAGTGACGCTATTGTACATCAAG	129
152	GCGGAGGCAAGAGAGAGAGA	133
1172	CATTCATCTGCTTCCATAACTAAGT	1147
1766	AAGAGAAGAGCGAAGCACAGC	1746
1710	AAGAGAAGAGCGAAGCACAGC	1690
1132	ACGATTCCAGCAACAACCGA	1113
212	TTCAAGAACTGAAGTTCGCTCTT	190
226	TGTTCTCACCAATACCGCTCA	206
772	CGGAGAGATATGTTGGTAGGTACA	749
132	GACATTGATGGTGCTCTCTGC	112
730	CGGCTGACCAGATATCTACTTGAG	707

223	CGAGAGTATTGAATGTGTCAGCCA	200
674	GGTTCAACACGAAGCAATGC	655
2403	GTCATCATCTCGGTGCGGTT	2384
452	GGTATCACATTCATCTTGTTTCATCTG	427
339	AATCCTTCAGCATCCGATCA	320
254	CGTAGAGTGAGGCTCCAGAATC	233
194	CGTAGAGTGAGGCTCCAGAATC	173
161	TTGAATTGCTCGTCGGTAGC	142
188	TGTGTTGCTTGACGCTGCTT	169
190	CCTGAGCTTCGTCCTCCAAT	171
585	CGCTGGAGTTACAACCGCAT	566
530	GCATTAACATGATAATCGAGAGTCAA	505
158	CGTGGTTCGGATCTAGACGTA	138
479	TCCTTGTGAAC TTGAGCGTGGT	458
868	TCTAGTCTTCGGAATGGAGTGC	847
809	TGAACAAGTTGAAGTACATCCATTG	785
1140	GCTGTTCTTAGGTGTTTCGGATG	1119
1460	CGAGGAGCAGCGGAAGAATG	1441
1177	TGGTATTACTCGACGTGAATATTGAC	1152
241	CAGATCCGACAAGGTCACTTCC	220
1087	TCATAACCATCCTCATAGCCATT	1065
151	CAAGAGTAGCCATCTCAGTAGTAGTCC	125
151	TCCTCATGTGTGTGCTTCTCTT	130
234	ACTCATTCTTGATCGAGTTAAGTTACG	208
143	CCTTCTCATTCTTCATCTTCTTCTCA	118
122	CACCTGCTTCTGTGCGGTTA	103
164	TTCAACTACCGAGCACACAGG	144
426	TCTGAGCTCTCGAAGTTGAGTTG	404
253	TTGTCAGAAGTCACATGGTTGAG	231
143	CGTCCGTTCTTCAGCCAGTT	124
185	CGGCAACTACGACACGAGCT	166
501	GCATACTGGACCTTCGTAGCAT	480
251	GCTCCTTCGTAGTGTCTCCGT	231
287	CCACCTCCGTTACCTCCTC	268
253	CCACCTCCGTTACCTCCTC	234
345	AGTGCCGTCCAGGTGATAGC	326
1048	TCATTGTAGCGTCCATGCCAT	1028
1479	AGGATTGGAGCATTCTTCGTAG	1458
426	TGATAACGACGTTGATAACCGA	405
524	TTCAACATCCTCGTCATCTTCA	503
94	CGGTGGTCGAGCATAGAGTAC	74
349	CTTCATCCATTGGATCATGTTCA	327
217	TGTGAATGCTTCTGGACCAAG	197
463	GAAGAGTCTCATCAACAGAGCGT	441

607	GAAGAGTCTCATCAACAGAGCGT	585
251	CAGCAGATCGTCGTCGCATC	232
156	CTTCTAGTTCGTCTCGTCGTT	135
873	GTGTCAGATGGTGAGTGGAGAA	852
152	GCGCATCGTCGTCTGTACA	133
865	GTGAGGATTGAGCCATTCGTC	845
118	GGAGTGCTCTTATATTGAATGTGTAGA	92
144	ACACCAGTTCGGAGCATAGC	125
152	ACACCAGTTCGGAGCATAGC	133
766	TGGTACACCTGGTGGCAAGA	747
780	TGGTACACCTGGTGGCAAGA	761
641	TTGAGAGTTCTACTGAATCCGCAGA	617
241	GATCTTGTTATCAATCGCAGCTT	219
346	CATACAATGGAGTTATTCTGTCAGGA	321
346	CATACAATGGAGTTATTCTGTCAGGA	321
996	TGATGAGAGAGGAGAAGGCAA	976
986	CTCATCGTCATCGTCTCCATC	966
1078	TTAGCGGTCACCTCGGCGTT	1059
590	GCAGGTGGTTCCAGATGTGT	571
715	GGTTCGTGAATGTTTCGTGGA	696
338	TCTTCACACGTGGAATGGTTC	318
338	TCTTCACACGTGGAATGGTTC	318
265	GACAAGCTCGGCAAGATGACC	245
726	GAATATGAAGATGCTGTTGATGAGA	702
634	TCGAATCAGCTGCACTCATG	615
629	GCATCAGCTTGTCGCATTCC	610
137	GGAATGCGACAAGCTGATGC	118
539	GCACATGGATATAGTTCACTTCTCC	515
724	GGAGACAATCCTGGACAACG	705
514	AACCATCCATTGAATCTGTGC	494
137	TCTCATCACAGCATCCTCAACT	116
1117	TGTGTAGGTTCCAGCAACTCG	1097
617	TGAGCTTCACTGACTCCACTCA	596
176	AGTTGATAACCAGTAGCAGTTGTGAC	151
199	AGTTGATAACCAGTAGCAGTTGTGAC	174
769	TCTCCGTCGCTCTCGTGTT	750
171	CGTCAAGCTCCTCATCGTAGA	151
171	CGTCAAGCTCCTCATCGTAGA	151
171	CGTCAAGCTCCTCATCGTAGA	151
2303	CCACTGTATGACATCACTGCGA	2282
2282	CCACTGTATGACATCACTGCGA	2261
1108	ATCCTTCACATCAGCCAACG	1089
1154	ATCCTTCACATCAGCCAACG	1135
1050	ATCCTTCACATCAGCCAACG	1031

1184 ATCCTTCACATCAGCCAACG	1165
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322 GACAACTTCAACCTCTTCTTCACTT	298
364 GACAACTTCAACCTCTTCTTCACTT	340
321 GACAACTTCAACCTCTTCTTCACTT	297
322 GACAACTTCAACCTCTTCTTCACTT	298
364 GACAACTTCAACCTCTTCTTCACTT	340
213 ATCATCACGGAGATAACGGAGT	192
262 CGATGGAGCCGTCTGTAGATAC	241
262 CGATGGAGCCGTCTGTAGATAC	241
138 CGTAGGCAGATGGAACATAGGC	117
316 TCGAGAGAAGCTGAGATGATAAGAC	292
434 CCGTAAGTCTTGGAGTAGTGTTCA	411
268 GCTGTTCTCCATTGTGACCAT	248
1762 ATGTGTGCTCTCCGTGTTGC	1743
234 GCAGACACCAAGGAGAGCGA	215
136 AGTCTCCGTGTGCCTCTTCC	117
131 CTGCTTCGAGTTGGTATCCGTTA	109
180 GAATCAGTGGCAGGAATCTCA	160
1661 GTGACCGTAGGCTCCGTGAC	1642
168 TGCCGATGTGTTAGGTTCCA	149
1448 GATGCTGGATTGACTTCGCT	1429
691 GTCACCAACTGCTCGTCTCG	672
843 ACGCCACGTAAGGTTCAAA	824
1239 TGATCCATTATGCCTTGCCA	1220
898 TGGATAACAAGTCGTGAAGTGATGC	874
516 GTGTTGAGATTCCAGTACATTACAGAA	490
644 GTGTTGAGATTCCAGTACATTACAGAA	618
209 GGCTGGCTCTCCGACACTT	190
318 GGAGATGGTGTTCTTCTATAATTGTCC	292
809 TTCAACCAACTCTCCACTGCT	789
1003 TCATTCTCCACTTCGCATT	984
3452 AACTCAACAGCGATTCCAAGA	3432
713 CTGTCCTCAATGGCTTCCTG	694
225 TCCAACCAGAGCCAATCGTA	206
226 GGATGTTTATTGTGCCATAGTTG	204
651 CGGAGTCATCAAGAATAGTGAACAG	627
313 TCATCCTATAGAATGCATCGGAA	291
315 CACCAATCCATACGATGAACATAG	292
196 GAAGATGACAGGCGACGGAA	177
209 TTGCTATCTATGGTGTCACGGA	188
549 TGAGTCGGTAGCGTCTCCAATG	527
309 TCCGTATGTTGAGCATAGTGTG	287
313 GGAGCATGATGTTGTAGCAAGA	292

101	TTCAGCGATAGTGTTGAGCACA	80
1049	GGATGTTGAGTCATCAGTTGGC	1028
481	GGAACCTGAACTTGGCACGA	462
499	GGAACCTGAACTTGGCACGA	480
722	GCTTCCAATCACCACCGAGA	703
1002	GACGTGTCTACAGAATGGACACTT	979
391	CATCATCAGATAACAACACGAAGT	367
791	ACGACACATTCCGAGCGATT	772
170	CGTCATAATACTCCGATCCATCA	148
2567	CAGGTTCAACGATCCAGTGATGTC	2544
1514	CGAGGCTTAGGCTTCTGTCAA	1494
162	AAGAACGAGTGAAGACATAATGAGTAGA	135
153	GCAGTAATGTGAAGGCTACGG	133
138	CGTTGACTCACCATCATGTCC	118
1560	TTGTTGATGCCTCCTTGGTC	1541
1614	TTGTTGATGCCTCCTTGGTC	1595
1661	TTGTTGATGCCTCCTTGGTC	1642
198	CGGTAAGACGGTAACAGCAAGG	177
274	AGCAGCCATAACTCGTTGTCTT	253
109	AACGAACTCCTCAGCGGCAT	90
109	AACGAACTCCTCAGCGGCAT	90
109	AACGAACTCCTCAGCGGCAT	90
262	CGAAGGCTTGAAGTCCATCA	243
1745	CGAAGGCTTGAAGTCCATCA	1726
89	TTGTCTCTCAGAAGTCGCCAA	69
590	CGTATATCTCTCGAGCATGTGAAG	567
341	TCCTGCTCTCCACTCTTGCG	322
156	TTCTAATAACTTCTCATCTCAACACA	130
161	CGTGTGTCCTTGTGTTGCTC	142
577	CTCACTTGCGACGATTCCTT	558
498	TGGCATGACACTTCAACGAA	479
3063	TTCAAGTTCGTGCATAGTGTTC	3041
1273	CATTGTTGATTGTAGCATAGCCA	1251
725	TTGATCCTTCATCACGATAACATC	702
432	CCATCGGACACATACAATTCC	412
891	CTTCACTTCGGCAGATGTCACG	870
1352	CACGAACGGACTGTACGGAGT	1332
1368	CACGAACGGACTGTACGGAGT	1348
427	CAGCGACAGTTGATGCCGAA	408
488	CAGCGACAGTTGATGCCGAA	469
254	TCTTATCGTCGCTGCCACTG	235
154	TATTCTTCGAGTTGGATTCATCAATC	129
745	CAACAAGTAGAGCGTGCGAA	726
876	TGATGGAATGAATACTGGCTGCT	854

297	TGATGGAATGAATACTGGCTGCT	275
170	GGCTGTATATTCATTCATTAAGTGGT	144
277	TGTGAGATCCAGGAGAGCCA	258
701	AGAGAGTTGAGGATTGTGTAGCATT	677
1261	CATTGTGGCGAGTGAGCATT	1242
1354	TGGTCGAACAGTTGTGGACA	1335
1260	TGGTCGAACAGTTGTGGACA	1241
380	AACAAGCGTAGCAGATTCGG	361
1472	CCATCTGCCGAGAATATGGA	1453
670	GTTGGAAGAAGCGAATGGAA	651
1220	CCATTGTGACGGACAAGCAT	1201
234	CGCATCCATGTGAACTACATCT	213
284	CCGAATCCTGAGAACACATAGAG	262
177	CAACAGGAACACACACAATCG	157
206	GGAATCCAATGGCTTCTTGA	186
352	CCTTCTTCTTGGATAATTCTGCGT	329
223	TTGCTCTGTAGTCTTGTAGTCCG	200
1487	AGAAGATCGTCGATGGTTGG	1468
367	TGGTGAGATCAGGACAGGCA	348
947	AGAAGATCGTCGATGGTTGG	928
367	TGGTGAGATCAGGACAGGCA	348
1216	CAGTAACAAGAAGACAGAAGAACAATG	1190
167	ATTGTTGAGTCGTGCGGTTT	148
487	CTGGTTCAAGAATTAGCTTCACAA	464
201	TTGTTGTTGTTGTTGATAATAGGCA	177
527	ACTGACGCACGGAACACCAC	508
109	GCACGGACCTCATTAACCAA	90
170	GCGTCTGATGAGTAGTAATCTGGCT	146
408	ACAATAACAATAACAGAAGATCACCCT	381
415	ACAATAACAATAACAGAAGATCACCCT	388
254	GCATCACCGTCACCATACTCG	234
414	CCAAGAACATGAGATACCAGGAA	392
158	AATTCCTTCTCAACGACACAGTCAT	134
221	TGATTCTTCAGAGGAAGTTATGTTGA	196
129	ACCTGGTATCGCACCTCGTA	110
148	ACCAAGCACTGAAGAAGATGTACCA	124
126	GTGAGCATGATACCTGAGAGTATGAG	101
130	TTATGCCATAATCCAATTAACGAA	107
147	TCTCCTTCTTCTACAATCCTATTACGA	121
720	CAGGAGCAGCATCTTGTGACG	700
1021	CCGAGATTGTAGAGTGTTGAGACCA	997
429	AACGGCTACGACGATTCTT	410
261	GATCACTTCCGGCTCTTCAGA	241
1694	CCAGTCGGTTGCTCATCGTA	1675

1651	CCAGTCGGTTGCTCATCGTA	1632
2018	CCAGTCGGTTGCTCATCGTA	1999
230	TGAAGTGCAACTGATATCCACA	208
143	CATGTGATGTTGATGCCATGT	123
237	ATTCCACTGTCCACGGTTCG	218
140	GCCTCTGGTCACTTATATGACACC	117
126	TCAGATAGATCCTCAAGCCTTCC	104
170	AACTCGGACTTGACGCATC	151
855	GACGAAGACGGCAGACACTC	836
1022	ACTTATCCAGCGACCGTTCA	1003
1252	TTGGATGAGGAAGAGAAGATAGTTG	1228
1084	CGTGTGGTTCTTGCTGTCTCC	1064
1178	TCATACTTGTCTAGGATAGCTTCACAA	1152
722	TGTTGTTATTATTCCAGCCGTCA	700
590	AAGACGCCTCTGAAGTCGCA	571
395	AAGACGCCTCTGAAGTCGCA	376
279	CAGTCCGATCCATAATAATGAAGC	256
439	GAAGCGAGTCACTAACACAGAATGG	415
118	TCGTTACCAAGATACAATGTATGTGA	93
533	GAATTACATCCAGGAGAAGTGCTAA	509
1355	TTGTCGTCGTGCTCTTCCGT	1336
351	AGCTGTTATTGACACGTGAACG	330
514	TGCGCATGATGTGATAATCC	495
5671	GTTGGTGGCTTGAGGATTCG	5652
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329	TCGTCACATGTTGCCAGCTT	310
345	GGTTCACCGTGAATGTACTTCT	323
346	TCGTCACATGTTGCCAGCTT	327
233	CGCACCGACCATAGTCACAT	214
505	GCCGACTTAGCTTGTTCTTGA	485
599	GCCTCCATCTCGTCATCATC	580
1531	AATCCTCTGCGTCCTCGTTC	1512
145	CGAGACAAGGTACGGTAGAAGG	124
242	CGAGACAAGGTACGGTAGAAGG	221
1044	GCTCCATTGTTATTCTTCCACTCA	1021
906	AGGCACGATGAAGAGAGGATT	886
1196	TTGAGTATAGTACTTGGCAATCATACG	1170
1252	TTGAGTATAGTACTTGGCAATCATACG	1226
464	CCTTGAATGGTGAACGAGACTT	443
481	CCTTGAATGGTGAACGAGACTT	460
126	CCACACCACGTAATCGGATT	107
129	AGGAGGCGACAGCTACACAC	110
172	TGAGCAATAGAGCACAGAGAAGGA	149

799 AGCCAGTGCGTCCAATACCT	780
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538 TTCACGATCACGAAGTTGGC	519
155 GGCTGAACTTGATGACCTGAA	135
482 GGCTGAACTTGATGACCTGAA	462
229 AGGTAAGATTCACGAGGTTGTAGTCAT	203
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479 TTCTTGGAGAGTCGTCAGCAG	459
251 GAGCAAGATTCGATGTGAGAGTACT	227
159 CCACTTCCTCCTATTCTACGG	138
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1318 GGATTCTGGAGCAACATAAGCA	1297
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2709 AATAGTCCTCAGCCTCATCCG	2689
1518 AGAATACCGGCTCTGATCGTC	1498
166 CGTCATATGATATCGAATTATAAGTGG	140
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498 GCTCTCGCCATGCTACTTGC	479
562 CAGGACAATGGTGTGAGGAAG	542
248 CAGGACAATGGTGTGAGGAAG	228
301 CAGGACAATGGTGTGAGGAAG	281
1127 GACTTCTTCAAGGCACGACGA	1107
855 GTGGCATCTGTTGGCGTAGT	836
120 AATTATCCGGTGACCAACGG	101
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127 GAGAGCCACAAGCACCAGAAC	107
735 CATTCCAGCATTACGAGCAA	716
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1152 CTCTGTGCGGTTCTGTTCC	1133
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755 TCTCGTTCTACTGTCCAATCTCG	733
222 TAGTCGTTCCATTATCATTATCATCTTC	195
806 ACAGATGGAACCAGGATCACC	786
671 CCGTGATGGCTGTATTCCTT	652
308 GCATTCAATACAATCAACTTGGC	286
406 GGTCCATATTATGCCAGTGATGA	384
279 TTCCATGACCAATGTGATGATACC	256
171 ATATGCGGTCCGGTTGAGTT	152

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243 CCTCGATGATGAAGCATAGTTG	222
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208 GCGGTAGTAGAAGCCGAAGA	189
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139 ATCGACGACGACAACGGAGA	120
135 TCGTGAGGATCTCAATTGCA	116
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148 AATGTGCTCTGGAACGCTCA	129
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296 CGTCCACCTCTCATCCTATCG	276
164 CGTCCACCTCTCATCCTATCG	144
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393 CGAGATGAGTGTGACGAGTGC	373
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810 TTCTGCATTCCAATCATCCATT	789

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945	CGTCAGTATGGTCGCTATTGTAAC	922
370	GGCTCTGATTCGTTGTCATCTCCT	347
116	AACATCTTACGAGCCTGGTCATTG	93
116	AACATCTTACGAGCCTGGTCATTG	93
4780	AGCAGCGAGGACCAATGAAG	4761
157	TTCGGACATCTCCTCATTGC	138
247	CACGCAGACCATGCTCCATA	228
157	CATTACAACAAGACACCGTTGG	136
304	CAGTCTTCTTATAGGTATGTGGACAGC	278
522	GGTGTAGCCGTCTGTCCATC	503
391	AATGTTGCGGTAAGTGTGGAA	370
691	TGACTAGTGCATCGAATGTGGT	670
673	TGAATATGGTACACGGACTATCCTC	649
298	GACAAGTGGCATCTGGCAAT	279
356	GAGAACTTGATACTGTTGTAGGTAGCC	330
290	GTGGCTTCTGGCAACTCTGT	271
882	TGTGGCTATGGTTGATGTTGTCG	860
141	ATTGCTATGCTTGCGGAAG	122
122	CATTAAGTCCGCTAGGACAC	102
281	GAAGAATAATGGATGTTGTAGTGATGA	255
1985	CAATGTTAGTGGCGGAAGGT	1966
391	CAATGTTAGTGGCGGAAGGT	372
1705	CAATGTTAGTGGCGGAAGGT	1686
229	TCATCGCTTGTGGTGTCTA	210
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257	AATAGCATGGCTGGCGACAT	238
143	GGCAATCAAGTGAGCGAGAA	124
153	AATTGAGAGCGCATTGGCAT	134
123	TCTGATTGTTGTTGGAGGAACA	102
284	CAATTAGGAAGTGAAGCAATGGA	262
159	TTCCGTATCCATTCAAGAGCTT	138
125	AACATAACCAGGCCAACGTG	106
1480	AATGGAGTGTTGGCGGTGAC	1461
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1526	AATGGAGTGTTGGCGGTGAC	1507
760	TGAGCAACAAGCGGAGAGAA	741
1327	GGTGATAATGATTCAACAACAACG	1304
169	TATTGCGGTTGGTCCTCACA	150
349	GCAGACGGTACTGAGCTTGG	330
1409	TGAACACACGAGTAGATCCACGT	1387

1157	GGCCATGATGAATAGCGTAACC	1136
1657	TGAACACACGAGTAGATCCACGT	1635
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179	TGCATTGTGTCCATTGAAGTTCT	157
129	TTGTTTCAGGAGCAGCAGCAG	110
234	TTGTTTCAGGAGCAGCAGCAG	215
163	CTCCGTCCTGATTGAATTGG	144
163	CTCCGTCCTGATTGAATTGG	144
158	CCGAAGTAGATGGTGACGAGA	138
280	TCAGACGCCAGACGGAGTTC	261
1861	GTCGTCGTGGTGTGAGAGGAG	1841
555	CGGTATGAGTCGTCCTGCTG	536
215	TCCGAAGGCAACAAGAGTCC	196
248	GGACGAACTCTGCGAGTGAA	229
334	CTTCCAGATGAGCCGACGTT	315
245	TCATCATATCGCCGTCCAAT	226
245	TCATCATATCGCCGTCCAAT	226
531	GCTTCTCACAACATCAGCTACTTC	508
536	TCGGCAACTTCATTGAGCAA	517
634	ACTCCATCATCTCCACAACGA	614
205	TCAAGTCATCCGATTCTAGAGGTAA	181
114	TCAAGGTGGCAATGGTGGAA	95
871	GCAATTGAGGAATTAATATCCTGGAG	846
179	TCTCCGTGAATTCCACGAAT	160
221	CCGTCAACTTCAAGGAGTGG	202
185	GCAATTGACCGAATGGAGTG	166
351	ATGAAGACGAGCAGCACCAC	332
499	ATGAACTATGACATTACTTCCAGCAG	474
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203	CAGCGTCCTTCTTCTCGTCA	184
180	TCTGCTGTTGTTGTCCACCA	161
512	TCAGATTGAACGACACCTTGG	492
541	CCTTCAGTTCCTCCGTCAATC	521
329	TCTTCTGATGCTCCTCCAACG	309
207	GTTCTGTGCTCGCTTGTGGT	188
490	AAGTCCTGATGGTCCTCGTG	471
3747	GAGCACACCAGCCTTATCGG	3728
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123	CCTTATCAGATCGTCACGTCCTG	101
135	CCTTCTTCTCACATCTCTTCTCA	111
411	GCTCAACATTCTCCTCACAACA	390
158	GCTCAATCATTGTCTCAATCTTCG	135
202	CCACCATATCCACCGTAGCC	183
1156	CACGATACAACAACCAATCAGACCT	1132

173	ACCACCTCCGTAACCTCCTG	154
3839	GGTGCTGGCTTGTCCTTCC	3820
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857	AATGAACACGCACAGATGGC	838
724	AATGAACACGCACAGATGGC	705
850	AATGAACACGCACAGATGGC	831
510	TTGGCAGTATTGAGTGTCTATTGG	487
133	AACTGAGAAGATGAAGACCTAGCG	110
164	GGCACTTGATGTGTATCGCA	145
183	TGAATAGAACCGTGGTAGGCA	163
122	AATATCTGATCTGGCCAAGCAC	101
145	CAACCTAACCAACCGTATGGA	125
863	GGTATGAATGACAGTGCAGATGA	841
797	GGTATGAATGACAGTGCAGATGA	775
178	TGATGGACGTGTTAAGGTCTCC	157
128	TGGCAGAAGGTCGGATTGAG	109
736	CTGAGCCATATGACCGCATG	717
499	GTTGAGCCATGTGACCGCAT	480
108	GGTAGATTCTGCGGCTCCGA	89
253	AGATGAATGCCGAACCTGGA	234
470	AAGAGCTTGAAGAAGATGCTGTAGA	446
221	GTCGCAACTAAGATACACCTCAAG	198
852	TGTGGCATCGTGGAACCTGA	833
403	TCTCATCTCTTCTTGCTTCA	381
144	GCCAGACGATGTGACAAGATTC	123
158	GCTAGAAGAGTAAGCGGTAAGTTGA	134
142	TCAGGTTGAGCGATGTGACA	123
460	AATAGTAAGCATCATCAGCGGAA	438
344	AATAGTAAGCATCATCAGCGGAA	322
443	AATAGTAAGCATCATCAGCGGAA	421
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185	GGAAGTAAGCCAATTCGGAAT	165
126	CACCAATTATCGCTTCTGTCAA	105
524	GCATTGTATTCTTCAGTTCGTCCAT	500
125	TGCCTGAAGAGACGCAGCAC	106
271	CATCACAACATCTTCTTCTTCG	248
133	ATATCACTGCCACAACCTACAATGGA	109
126	CGCACATGCTCCTCCTCACT	107
142	TTGTTGATTCTGAATCGACCTG	121
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421	GGCGGAGTCGTTGTGATGTC	402
908	CGGAGATGACAACAGGAACAC	888
943	CGGAGATGACAACAGGAACAC	923
3132	GAATTGATGATGTCAGGTTGAGC	3110

2918	GAATTGATGATGTCAGGTTGAGC	2896
1757	GAATTGATGATGTCAGGTTGAGC	1735
1384	CCTTACAACGCTGGCAACGA	1365
653	GAACATTCATCCAATCAGCCA	633
678	GAACATTCATCCAATCAGCCA	658
1113	GAAGCATTGAGGTTGAAGACG	1093
710	CAATCCAGATGGTCCAGGTTGA	689
390	TTCCATCCAGGCTTCTTCTTG	370
152	TCTCGATTCCAGCATATTCCA	132
742	ACCGTCCATACGCACTTCTC	723
536	TTCTTCGACTTCTTCCTGATCTCC	513
693	TGCGGTATAGGTTGCTGGTG	674
562	TCATTAGCACATTCTTATCAGCGT	539
144	AGAAGGTGGCGGCAAGTCAC	125
315	GGCTCCAGGTCTCTTGAAGATC	294
254	AATGCAGTTATTGAGAAGGTCGTT	231
669	ATTGACTGGCAGATATGTGCTG	648
333	CAGATAATTCGAGGTGTCCTCAA	311
704	TGGAATGGTTGAAGAGTTGAAGC	682
242	CAGAATCCATCACAGAGAAGCG	221
820	ACGATAGATTGCCAGATAGTGTTG	797
225	CAAGTCGTCCTGGAGTCGCT	206
1123	TCAACTTCATGGCGACGATC	1104
1673	TTGGTCCACCGATGCTTCTG	1654
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1129	TTGGTCCACCGATGCTTCTG	1110
980	TCAACTTCATGGCGACGATC	961
1137	TCAACTTCATGGCGACGATC	1118
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431	TCCTCATCTTGCCACTTCTTG	411
685	ATGGTTCCTCCGTTGACTTG	666
431	TCCTCATCTTGCCACTTCTTG	411
286	ATGGTTCCTCCGTTGACTTG	267
286	ATGGTTCCTCCGTTGACTTG	267
1464	TCTGATCATATCTGTTGTTACCAAGTG	1439
135	CATGCATGCCTGCCTATAGTC	115
1461	TCCATCCTCCAACAGTCTTACTCAA	1437
1128	CAAGCCAGTGTAACAATCGTAAGAC	1104
1214	CAAGCCAGTGTAACAATCGTAAGAC	1190
120	GGCGACGAGAGGAGAAGGAT	101
319	CTCTGTTCTCTTCTCAAGAATCTCA	294
260	CCATCCGGTGTGTAGATGATTG	239
634	TCCAAGTCTGATAGAAGTTCACA	611
543	GCATTGATTCTCGCCTTCTC	524

161	AGGTTCTGAGCCTCCGCACA	142
425	ACTTGTTGTTGCGTGTTGGTT	405
425	ACTTGTTGTTGCGTGTTGGTT	405
425	ACTTGTTGTTGCGTGTTGGTT	405
158	TCGACATATTGATACTGATAAGGCTT	133
517	CTTGATGTGCGACTGTGATACG	496
528	CTTGATGTGCGACTGTGATACG	507
774	TTGATAGTCGCACTCCGCAT	755
373	CAAGTGCTCCTCCTCCAACA	354
429	CAAGTGCTCCTCCTCCAACA	410
673	TCTACAGAATAATAAGCCAGGAAGG	649
673	TCTACAGAATAATAAGCCAGGAAGG	649
456	CAACTGGCTTACGGAATGGAA	436
891	TACCTTCAGCGGAGCATCAC	872
328	GCTGGTGCGAAGAACAATAACATC	305
589	TGGTGGAAGACGATGTAGCC	570
589	TGGTGGAAGACGATGTAGCC	570
129	CTATTCGAATTGAGAGAATGAGATGA	104
513	CCGTTGTGCTTCACCATAGACC	492
128	GTGGTGTGGTCACTCAGCAA	109
194	GCTAGAGGTCCGCTCAGAAGG	174
232	CGAATTGAGAGACGATTGAGC	212
127	TCACAGAGACTTGGCACGACT	107
163	CGTTCCAATGATGAGTACACTGC	141
340	CGTTCACTCTCACCGCACTG	321
2672	GAATGAAGAGGTGGAGATGGAA	2651
2676	GAATGAAGAGGTGGAGATGGAA	2655
300	CCGCCGCACAGTAGATAACC	281
704	CGACGATAGGCATGTTGAGTG	684
754	CGACGATAGGCATGTTGAGTG	734
154	TGCCTATGTGTACTCTCTCGGTT	132
371	AAGCGAGTGGAATGTGAATATCG	349
267	GAGCCAGCGGTGATAGAGTAGT	246
760	AATCGCTGCCACATTGATGC	741
127	CGATCCACAGCTTGACAGTTG	107
166	CGATCCACAGCTTGACAGTTG	146
178	CGATCCACAGCTTGACAGTTG	158
127	CGATCCACAGCTTGACAGTTG	107
1076	AAGACGACGCAGAACACGAT	1057
1121	TCCGTATTGTCTCTTGTAACCGT	1099
1076	TCCGTATTGTCTCTTGTAACCGT	1054
853	TTGATGTCTGACTCGTGTCTG	832
938	TTGATGTCTGACTCGTGTCTG	917
110	GCTCTATTCGTCGTCTTCGTG	90

170	TTGATGTCTGACTCGTGTCTG	149
546	CCGATTCCTCATCCTCCTCA	527
1082	TTCGATCATCTCGATTGACACGA	1060
1060	TTCGATCATCTCGATTGACACGA	1038
967	TTCGATCATCTCGATTGACACGA	945
501	AACACGCTTGACTCGCATCG	482
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964	TTGATGATGTTGTCGTTGTTGA	943
464	CACACAGCATATAGCATCCGTT	443
226	TCTTCGGTCTTATCCAATTCAGTGC	202
489	TGGTTCTGGAGTTCTGTGTTCA	468
524	GATGAAGGTCCTGGAGAATCAC	503
1148	CATCGCACTGTCGTCGTTCA	1129
249	TGAACGGCTGCTGAATAGAGA	229
1231	CGAGACAACGGAACAGCATC	1212
243	CTGAGTTAGACGACGAGCATTG	222
608	TTAAGAGCACGAACTCTGTGAAGA	585
1014	TTGTCAGTTCGAGCCATAGTTCTAG	990
988	TTGTCAGTTCGAGCCATAGTTCTAG	964
119	TCGTTACGGACCATCATTACATC	97
122	CAGACATTGGAAGAGTGTTAGAAGG	98
373	CAGTGAACGCTGTATTGCTC	352
147	TGGTTGTGGTGGTTGTGGTT	128
166	GTTCTCCTTGAGCGGAAGCA	147
133	CGGCTCCAATAACAACGACT	114
123	AACAACAACCTTCTCCACTTCCAC	101
120	GAATCCTTGCTGTTGTTGCC	101
754	TTGCGTTCGGTCTCATTGTAG	734
734	TGATGACGAGTGATGTATGATGGAA	710
776	TGATGACGAGTGATGTATGATGGAA	752
430	TCTCGTTGTCATCGTTCTTCAC	409
430	TCTCGTTGTCATCGTTCTTCAC	409
561	GAGTTGGAACGAGTGATAGGAGTC	538
622	GAGTTGGAACGAGTGATAGGAGTC	599
453	GAGTTGGAACGAGTGATAGGAGTC	430
132	CCTTCAAGACCATTAGCTGTGG	111
382	GAGTTGGAACGAGTGATAGGAGTC	359
280	ACCTTCTCATCAAGTGACATCTTCT	256
102	GTTGCAGTGGAATTGGTTCG	83
152	CCAAGAGCGTCAGTATTGAGC	132
136	GCTCTAATTCATTCATAATCAGTTGC	111
777	GTCTGATGAGGATTCGCTTCTG	756
394	AATGTAGGCGTTGGATGTGAC	374
300	AGAAGAACCAGCCGTGAGAGG	280

244	CCGCTAGAGTTGTTGTGTTGG	224
839	AACTCGCTGGCATAATTGTCAG	818
735	AACTCGCTGGCATAATTGTCAG	714
83	CGCCTACAACCTCGTCGAGT	64
667	CAACATATCCATCGCAACTTCCTT	644
925	CAACATATCCATCGCAACTTCCTT	902
403	CATTAGTGATTGGATTGTATACGATTC	377
661	CATTAGTGATTGGATTGTATACGATTC	635
441	TGTGTATCTTGTTGTGGAGCCTT	419
724	CATCTGCTACTGGTATATTCTTCTCTCC	697
715	CATCTGCTACTGGTATATTCTTCTCTCC	688
801	CATCTGCTACTGGTATATTCTTCTCTCC	774
1412	TGTGGTGGTCATTATCAACGAA	1391
1412	TGTGGTGGTCATTATCAACGAA	1391
154	ATTGTCCTCGCGTCATTCGA	135
285	TGATTCAGCAACAAGAGTATCTGC	262
668	GTGTGATGGAGACTGGTGAGAA	647
582	GTGTGATGGAGACTGGTGAGAA	561
167	CGTGGTGGTTCATCGTCAAG	148
167	CGTGGTGGTTCATCGTCAAG	148
134	CGTGGTGGTTCATCGTCAAG	115
156	CGTGGTGGTTCATCGTCAAG	137
670	TCCATCGGCTTCATACCAGT	651
417	TCCATCGGCTTCATACCAGT	398
444	TCCATCGGCTTCATACCAGT	425
417	TCCATCGGCTTCATACCAGT	398
444	TCCATCGGCTTCATACCAGT	425
805	GTTCCATTGGCACATACTCATCC	783
206	ACTGCCTCCACTTCGTCCAC	187
192	ACTGCCTCCACTTCGTCCAC	173
164	GATAGACGTGCTCGGCGAAC	145
192	TTGAACCACGCCGTTCTTAG	173
123	GCATTGTCGTCGATCTGATCA	103
347	GTGGTGGCAACATCAACATG	328
131	TCGTCGGTCAGTCAGTTGCC	112
146	ATGTACCAACGAGTGGACCAGTT	124
185	CGATAAGAGAGCGTGCGAGA	166
2211	GGATGATTAGTTAGCAACCGTAGCA	2187
2284	GGATGATTAGTTAGCAACCGTAGCA	2260
2296	GGATGATTAGTTAGCAACCGTAGCA	2272
145	TCGTCAATAGTACATGATAGAGAGACC	119
154	TGAAGTGAGGATTGGCGGAA	135
140	CACACACATACACAAGCCACACA	118
395	CACAACTCGTATCCTCCTCCAT	374

691	TCGCAGTAAGCAGAGCCAGA	672
245	AAGCAGAGCATCATAAGAGGTGGT	222
130	GACAATATGAGGCGGTGTGG	111
145	TCAACGAGACATGAGTACTTGCA	123
1758	ATTGTTGGCGACGACAGAGG	1739
1278	CCTCGTCCTCTTCCGCTGAT	1259
1126	CCTCGTCCTCTTCCGCTGAT	1107
1207	CCTCGTCCTCTTCCGCTGAT	1188
1351	CGTCGTAGAACTGCGGATGG	1332
340	TCGGAACCTGGACTGTTGTGT	320
327	TCGGAACCTGGACTGTTGTGT	307
568	AATAGTGCTGCTTGCCATT	549
532	ACTGCGAGGCAATACTCCA	513
205	TTGTTAATCCACGAATGTCATCA	183
205	TTGTTAATCCACGAATGTCATCA	183
670	CACATCTCCACCGCACATTC	651
941	TGGAGCAACTGGACGAGGAG	922
1163	TGGAGCAACTGGACGAGGAG	1144
518	CGTCTAGTGACACTTACAGCCAGT	495
273	GTCTGTAGTTGGACGGTGGATT	252
611	GCTGGTGACGCTACTAGACTTCTG	588
477	TGTTACCAGACAAGTATCGGATGT	454
1315	CTCGGAAGCGTCATAACATTC	1295
1441	AGAGCAGCTCCACGTCCAGA	1422
1485	AGAGCAGCTCCACGTCCAGA	1466
2819	TGGTTGATTGCTGTGTTGTCTT	2798
352	GA CTCCTTCGTCGGTATCTTGA	331
341	GAGTTGTCATCGTCATCATCGTC	319
495	CCAAGTTCAGAATCGGAGGTT	475
556	TCCGTAGAGCAGAGTTGTTAGAGA	533
1785	CAGTTGAGCATTGGATTGGC	1766
513	CGAAGAGAAGCAGCGTCAGG	494
155	CGAAGAGAAGCAGCGTCAGG	136
133	AACGCACACAGGTCAATCCG	114
1116	GGTAGGCAAGGTATGGACAGAA	1095
836	GGTAGGCAAGGTATGGACAGAA	815
284	GCTGGCAGAAGTTGTACGAAG	264
236	GTGTCGTCGGTTATCCATTGTG	215
157	ACGTTGGCAGGTACTTGTCG	138
1373	TATGAGTGGCTGGTCGGAAC	1354
1411	TATGAGTGGCTGGTCGGAAC	1392
1303	TATGAGTGGCTGGTCGGAAC	1284
1381	TATGAGTGGCTGGTCGGAAC	1362
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138 TGATTGGTAGAGTCATTATTACACAGC	112
144 GAGCATCTGGAGCTGAAGTCTATC	121
1215 CTCACGAGCAGGTGTGGTCA	1196
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391 TCCGCACACTCCGAACTCAT	372
354 TCCGCACACTCCGAACTCAT	335
309 GACCAAGTCGGAAGATAACAGC	288
320 CCGCAAGAATTGAGTATGACATTG	297
341 AGAACATCTAACGCCAACCAA	321
341 AGAACATCTAACGCCAACCAA	321
141 AGAACGCTTGAATTATCAAGGAA	119
134 GAGCACCACAACCACAGTG	115
572 ATCTGATCGGAGAGCGGCTT	553
225 GCCGAGCACTTCCATTGACA	206
828 CGGTTGAATTGATTGATGAGC	808
335 CGGTGCGAAGTCTCAATCCT	316
114 TGATGTGACGTAGGTCCGGTT	94
572 CATCTTCTTCACATCTGTTACGAATCTC	545
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204 TTCCTGGTCCTTGAGATTCGT	184
204 TTCCTGGTCCTTGAGATTCGT	184
316 CTCCATCACCACCATCATCG	297
584 TTCAGCAGGCTCAAGGAGCTT	564
433 TCGATGATCCATCCAGTTGG	414
275 AACAGACACAACATGCAATACAGCTT	250
107 CCAGCATCACGGAGTTCAGC	88
149 TGAGTCATTCCAGCTGCTTG	130
168 TGGCGTGAAGAGAACAGGCT	149
895 GTCCTTCGTCTTCGCTGTCAC	875
201 TTCATTGCATGAAGATGGCAT	181
137 TTCAATCCATCGATTCCAGCTT	116
155 TCTTCTGGAGACATTGACTTGACA	132
782 GTCAATGCACCTGCTAGATCATAC	759
125 CACATTGACCTCCAATCGGT	106
208 CCAAGGATACATGAACACTTGGTAA	184
782 GTCAATGCACCTGCTAGATCATAC	759

730 CAATCACAGCAATGGACCAA	711
265 TCACGCGAACTGATATTGTGA	245
1068 TGCGAAGAATACGAATGCAA	1049
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179 CGACAACTGCTGATACAAGCC	159
639 CGATGAGTGGTGAAGAGGA	620
717 CGATGAGTGGTGAAGAGGA	698
766 CTGAGTCCAATAACTTCGTCAGC	744
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341 GGTGTCTTGTGTATCTCTGTGTTGTG	316
621 GGTGTCTTGTGTATCTCTGTGTTGTG	596
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167 ACACCTCCGTGAGCACATTC	148
617 TCATCTTCTGGCTCAGTTGGA	597
711 CGGTAGGCTCATTCCAGAAG	692
155 TCATCTTCTGGCTCAGTTGGA	135
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427 TTCGTCGGATTCTCATCGCTT	407
267 AACATTATTGTTATAGCAATGTCCTTGG	240
314 TTCGCTCTCATTGCTTCACC	295
148 CACTGACCATCGTGCGAGAG	129
338 TCAATCGCACGCCTTCTACT	319
282 TGAGCCATAGTATTGAGGATATGTTTCG	256
2524 GTGTCGCAGCAGTGAGAGAA	2505
2605 GTGTCGCAGCAGTGAGAGAA	2586
294 CTGGCACGAAGATGGTTGAC	275
587 TTGAACATTAGTGAGTCTGGTTGTCC	562
585 AATTACGTCGAGAGTGAATTCTTGA	561
116 GTGTATATTGAGTAGAACTCGGAGAATC	89
164 ACTAGGCGAGCGAGTGATTG	145
160 AACTGGCACTGTCGCATACTG	140
989 AGGAGAGTGAAGAACATTGACAGC	966
527 TGTGTGATTGGTAATTGATAAGATTGG	501
1004 TGAATCGTTCCATTGACAACTGAT	981

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149	TGATCCTCTATGCCGACAGC	130
758	CAGAAGACAAGGCCAAGAGC	739
648	TTGCTTCATGTTCAAGATAACAGG	625
300	AAGAATCCAGAATGGCAACACT	279
986	GATAATGCAGTTGACAATTCATCG	963
502	GTGAGATGACTAGAATAATGGTTAGCA	476
108	CATAGTAGTGGAGCTCGGCATAG	86
222	TGTAAGTCTCCAGTTCTTCTCGCT	199
201	ACTTAGGAATAGGTCAAGGTAGGCT	177
755	CATCTGATGAGTCAATCTCTGGTG	732
1119	GGAAGGATCACTTGAATAGTAGAGT	1094
1312	GAAGGATGTACGGCAATAGTTGA	1290
1014	TCTCGCATCCACTGTATGTCAA	993
533	TTAATTATTAATTCTTCGAGCTCCAA	508
256	CACCTAGAGGTATTCCTCCAGGA	234
190	GGATAACCAAGGTATTGACGCT	169
256	CCATCCTCTCTTGACACGGT	237
144	CGCTACATTCGACGAGCATT	125
122	CGCAGTACACACTTCGCACT	103
122	CGCAGTACACACTTCGCACT	103
144	CGCTACATTCGACGAGCATT	125
140	GCAACCAAGAGAACGCAGAG	121
126	AATGATGGTAGCGATGAAGGAA	105
96	GTGTCTGGCGGCTGTGTCTG	77
375	CGACTTCTCGTCATCGTACCA	355
1495	GAAGCCGTCATTGAAGTCGTT	1475
1501	GAAGCCGTCATTGAAGTCGTT	1481
115	TTGGTGGAAGGAGGTTGAGC	96
157	CCAACCTATCCTGCGACGAA	138
262	ATTGAGTTATCCGCAACGTACA	241
225	TTATGGCTTATGACGGACGTC	205
967	AATGTTGTGGCAGTGGTTCC	948
798	GTACCAGGCGACCATACAGG	779
354	CAAGCGTGGTAGTGTGCAGA	335
136	CTCTACCAGCTACCATGAGAACTCT	112
273	CACCGTAGCAGTCACTTGAGTTG	251
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414	ACACCGTCTTAGTGACGGT	395
206	CTATGGTGTTGGCGGTGGTC	187
173	CTCTGAATGGAGTTGAAGGTGTT	151
221	CGGAGCGGTTGAGGTGATAC	202
520	TCATCCAGAATCCAAGTGTCG	500
492	TCATCCAGAATCCAAGTGTCG	472

281	TCATCCAGAATCCAAGTGTCG	261
289	GAAGCAAGTCTTCCTCTTCGGA	268
347	CAGAGGATGTTGACTTGGTTGC	326
200	TTATTAGCAGTCTCTTCATCTCCTCA	174
966	AAGCGTGAGGAGATGTCGTG	947
1171	AAGCGTGAGGAGATGTCGTG	1152
843	AAGCGTGAGGAGATGTCGTG	824
113	CTGTTGAGACCACGACGATTC	93
183	GAGGATGCGAGACCATGTCT	164
97	AATGAGCAACATGCCAGTGG	78
170	GAGGATGCGAGACCATGTCT	151
1054	GAATAATTAGATCGGTGTGAATACTTGA	1027
611	ATTGCTATCAGTCAAGAGTTGGAAT	587
705	GGATCTCGACGAATGAAGGA	686
252	TGAAGCCAACACTGAGACCA	233
2026	GAAGCAAGAGATCCGAACCA	2007
1928	GAAGCAAGAGATCCGAACCA	1909
265	GGTCATCATCGGAAGAGTCG	246
784	ACAACACCACGATCACCAGAT	764
365	TCCACGGATTCTTCAAGCAGTT	344
162	CATTGTAGTTGATCGCGGACTT	141
173	CATTGTAGTTGATCGCGGACTT	152
132	GGAGTACATTACACAAGACTTCGCA	108
935	GAGCAACTGAGCAGAGTTAGGC	914
468	TGGTAGCGCCAATACTACGAA	448
498	CCGACGCCACAATAATGAAG	479
488	TCATCTACACACCAATCATCAA	466
517	CTTGAGATATCATAATGTTCCAGAGACC	490
1293	CGTAGATTCAACAGGAGGCGTAGT	1270
1519	TGCTTGTCGTACTATTGCCAGT	1498
1293	CGTAGATTCAACAGGAGGCGTAGT	1270
552	CAAGGAGATCGGATCGTCAA	533
124	GGACCATCCTTCTTCTCTCTC	101
136	ACTCAATCCGTAAGCCGTTG	117
167	CATCTCTCGATGAGCCATCC	148
217	CAAGGTCGCTAATTATGACGTAGA	194
910	TGAATCTCGTCGGACACAAGA	890
518	GCATACGGAAGCGGTAGACG	499
518	GCATACGGAAGCGGTAGACG	499
674	TGAATCTCGTCGGACACAAGA	654
1287	CGCATAGTTATAGGTTCCATTATTGAC	1261
132	GCTCCTCGATTGTATCTATTCTATTACC	105
347	ACCAACCATAACAACCTGAGAGAATC	323
246	ACCAACCATAACAACCTGAGAGAATC	222

2895	CCACTGTATTCACTTCAATCAACTG	2871
2116	CCACTGTATTCACTTCAATCAACTG	2092
254	CCTGCCTTCTTATTGAACGGA	234
199	CCTGCCTTCTTATTGAACGGA	179
839	GCTGTGGTGGTGGTTGTGGA	820
839	GCTGTGGTGGTGGTTGTGGA	820
128	TTGTGCTTCACATAACAATCGAA	106
240	AATCTGGTCAGTAAGGCGTGA	220
131	CGCGAAGGTTGATGATGCAT	112
127	AATATAGTGACTCAGTTCGTCAGATGA	101
461	GCCTTGATATGCAGCAACTTGG	441
466	TGCATATGGAGGTAATGATCGA	445
407	AGTCGTGTCGTCTCTTCTCCA	387
596	GAGACAACGGCGAGTGACAA	577
176	TTAACCATCATCTGACGAACTGA	154
777	CAGGACTCTTGATGACTGCTCA	756
2616	CTCTTGCGAATATCGGTAGAACA	2594
465	CGGCAACTGGAATATGACCT	446
489	CGGCAACTGGAATATGACCT	470
863	TGCTTGCTCCTCATCACAGA	844
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1271	GCATTGGCATCAGAACCGAA	1252
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1271	GCATTGGCATCAGAACCGAA	1252
164	TCACACCGTTGATGCACTTG	145
5206	GATTACGGTCGGTGAAGACG	5187
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4528	GATTACGGTCGGTGAAGACG	4509
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251	CGTTGCTTGTGGAGGCGTAG	232
161	CGTTGCTTGTGGAGGCGTAG	142
366	GTTGCTTGTGGAGGCGTAGG	347
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4495	GATTACGGTCGGTGAAGACG	4476
1696	GATTACGGTCGGTGAAGACG	1677
210	GTTATCCTTCCGTGTTCCGA	191
238	ACTCTTGCCGCTGTTTCATCC	219
234	CTACACGGAAGGCTTAGAACTTGC	211
341	GACACGCAGGAATGATGAGC	322
383	GAGCACATCCAACACCGAAT	364
519	ACCGTTATCAGCATCTCCATCG	498
267	CCGATACCGATGAGTCTTCTTC	246
201	GACATTCCGTCAATCTCTGCTAAC	178

124	CCGAGAAGAATGCCTGTTGC	105
416	GTCATTGTTTCATTGCTTCGTTG	395
1170	TGATACTCTTCTACACTGCTCGCT	1147
234	GTAGTTCGCCGACTCTATCCTG	213
252	GTAGTTCGCCGACTCTATCCTG	231
200	TCTCTTGGATGGTCGTTGTTG	179
154	CTCCAATAACCATGTCCAGGAA	133
341	GCGAGTAGTCCATGCCAACT	322
170	CCAGTCGTGAAGAATCCAGTG	150
345	ATGCTGCTTCCATGATCTCG	326
156	TGGAGCAGATGGAGCAGTCA	137
174	GATTCTATCATCTGGCTTGAAGTCG	150
166	ACCATGTGAATGTCTCTAGATTGAGC	141
707	TCAACAAGAATAGCTGATGTGGTT	684
496	TTGATAGAAGTCAGATTGAGTAGTCCA	470
448	AGTTGAGAAGACCAAGCTCCTG	427
371	CCAAGTCCTGTACCGCCATA	352
199	CTTGGACTGAAGTTGTCTTGAT	177
218	GTCTGGAGCCTCGTGTGTCG	199
637	TGTGAAGTGTACTGCCATAAGACG	614
637	TGTGAAGTGTACTGCCATAAGACG	614
242	CCTGCTGACCGTATCCACCTC	222
159	ATAGCCGCCTCCGTTCAAGT	140
1851	TCACTCCGACCACTTGACCA	1832
864	CCACGGAGAACTGATGCACA	845
860	CCACGGAGAACTGATGCACA	841
201	CCAACACCTGGATTGACTCC	182
1540	CCGTCAGATTCCATAAGGCA	1521
1537	CCGTCAGATTCCATAAGGCA	1518
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92	CAGTTGGAGTGGTTGGAGTCTT	71
239	GCGGCAGAGTAGTCATCCAT	220
235	CATTGAGCCGGTCTTGATG	216
302	CCTGCACTATGACATTGTCTAGCG	279
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235	CCTCAGCATCACATTCACATTCC	213
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281	ATCTTATCTCGGTCGGCGTA	262
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484	AAGGCGTCGTGAATCGGAAT	465
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728	AATGTTGCGTCTGGTAAGTTGTAGT	704
905	CGATGCCTTGGATTACTGGA	886
678	TCGTAGAATAGTCATAGTGTGGATGC	653
970	TTCTTGCTGCTATTGTTACAGACGAT	945
141	CGTCTGGTAGGAATCACTTGC	121
550	GGAAGTGGACATTCATCAAGGA	529
390	GGAAGTGGACATTCATCAAGGA	369
1334	CAAGTGATAGTTCGGCGTGAT	1314
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4141	AGCACTTGTCTCGTTGTTATCTGA	4118
137	CTCTTGGTGGCTCATCTTCAG	117
4747	AGCACTTGTCTCGTTGTTATCTGA	4724
2026	CGTCTGGTAGGAATCACTTGC	2006
1985	CGTCTGGTAGGAATCACTTGC	1965
1831	CGTCTGGTAGGAATCACTTGC	1811
148	CATATTCATCTACCGTATTCGCTGT	124
1393	CGATTGAGTTGAGTGCTCTGGT	1372
533	TGATTATGACAGTTGAACGGACA	511
377	TCGGCGACGTTATAATCGTT	358
310	TCCAGCACATAGTGAGGTCAAGT	288
2831	CCTTCCGAGACATCATTATCA	2810
542	TTATCGATGCAGTTACGCCTT	522
872	GATAGTTCATTCTTGGCGTGTG	851
2858	GAAGTGGTGGAACAGTGGATG	2838
454	TGGCATTGTTACTTGTCTTGTACA	431
453	CACCAATGTTCCGTTATGTGCG	433
232	GTGTGAGATCGGAGATATAGTCTCTGAA	205
248	TGGATAGCCGACATCTACGAC	228
327	AGCATCACGGTCGTATTGTATG	306
327	AGCATCACGGTCGTATTGTATG	306
250	TCCTGACAACAGTCGGCATT	231
234	TCCTGACAACAGTCGGCATT	215
198	AGCGAATCCACAATCTGTTGA	178
222	AGCGAATCCACAATCTGTTGA	202
198	AGCGAATCCACAATCTGTTGA	178
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469 CATTCAAGTTGCTGCTCGTGT	449
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1110 TGTAACCTCAGTTGTCTGTTGTGTTGT	1084
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333 AACGCAGCCATCCACCACTT	314
707 AGTTGTTGGTCTGCTTCGAGA	687
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144 ACTTGGAGCCTGGTTCTTGG	125
136 GTACGACATACTCCGCAGGTG	116
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184 ACAGAACACGGCAGAAAGTC	165
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246	ATCGGCACCTTCAGTCCAAT	227
359	TGCGAATGAGAACACAGATGA	339
620	GTTCTGTCGGCTGGTCGGTT	601
765	TGGTAGGTTGACAATACGTTCAATG	741
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875	AGTGCGGAGCGATACACGTT	856
141	TGAGACACAGAAGAGCAACGG	121
317	AAGATCAGAATGCTGCTCATCA	296
558	GCTACACTCATCATCCTCCACTT	536
867	CACCGAGTATAACGTGATGTACG	845
768	CGAATTCAATGTGTCCAAGCG	748
208	ACACCATATAATTGTTCCGCCATC	185
376	TGAAGATTGCCGTGTTAAGAGA	355
133	GTACGGCTCGGTAGAATGGA	114
757	GGCAGTAGAAGCACAATGGAA	737
653	TCGGAGGAAGCAGTGAGAAG	634
1367	CATCCTTCATTGACCATGTCG	1347
253	GAGCCGTTCAGTTGATTCGT	234
1448	ATGAATACTGTGTAGTCCTTGAGAGC	1423
1283	TCATCGCTGAAGTCGGTGAT	1264
336	AGGTGCTCTCTTCTGATACGGA	315
245	TTCCGACTCGTACCAACACAACA	223
311	CCATTATAGTCCAGAGTTGCTGCTAC	286
266	CTTAATTCATCTATCAGTGACGCAA	242
248	CTTAATTCATCTATCAGTGACGCAA	224
1480	TTGGCGTGGCATTCTTGATAG	1460
351	GTCTTGCTCCGACTGCGTTG	332
311	TACCTTCCACCACCGTGCTG	292
660	CTGAGTGGTGTGGCGATGTC	640
282	AGTCGGTTGAGTAAGCATAGCAT	260
657	AGTGTGCTGCGAGTCTGCGA	638
195	GCAGAAGTTGATATTGATGTTAGAGAAG	168
165	AATAGCGTTGCGTTCGAGTG	146
891	AGAAGTGATGATAGTGATACCAGGTG	866
114	CAGAGCTCAGCAACGGAGTT	95
757	CCATATCTCAAGTCAAGAAGATTGTC	732
978	GCATCAACCATCGAGGACTT	959
729	GCATCAACCATCGAGGACTT	710
810	GCATCAACCATCGAGGACTT	791
250	TCACTTCCTTCAACACGTTTCG	230
120	GGTTGAACGGTGAACAAGGACA	99
110	ATGAGAGGTGGATGCGTTGC	91

143	TATGAGAGGTGGATGCGTTGC	123
138	TTAGAAGAGACAGAGACGACTGCA	115
686	AGAGGCTATTGACATCACTATCTTGACT	659
164	GAATCTGAGCACGTTTCGTCAA	144
296	ACATATCGGACCATGCGGAA	277
372	CGACAAGAACCTTGACACCAGTC	350
493	CGACAAGAACCTTGACACCAGTC	471
615	CAGAGGACTCCAGCTTGAGG	596
297	TGTGGAGGACATACTGAGAAGAAC	274
348	TGTGGAGGACATACTGAGAAGAAC	325
593	GGATGGATGAAGCAATGTACTGAT	570
464	AGTCTCACCCTCAGAACACCAT	442
437	GAACCGCTTGAGCTGGAACC	418
687	GAACCGCTTGAGCTGGAACC	668
740	TTGGAGCAGACTTGCGGACTT	720
720	TTGGAGCAGACTTGCGGACTT	700
677	TTGGAGCAGACTTGCGGACTT	657
718	TTGGAGCAGACTTGCGGACTT	698
641	TTGGAGCAGACTTGCGGACTT	621
132	TTAATTCATTCATCCACATTCACAA	108
1125	TCCAGCAACACAATAGTAACAATCTC	1100
170	CCAAGCAGCATCTGTCTCAA	151
503	GCATCTTCGTCAATCACTGGT	483
187	TTCGCAATGTTGAATGTACTGAT	165
180	TTCGCAATGTTGAATGTACTGAT	158
120	GAGGCAGACAACGACATTCACA	99
631	TTGGAACAGCAGTGGAGACA	612
268	GATGAGCCACTTCGACAACCA	248
2105	TGCTGTTGATTGCTTCGTTGTG	2084
1082	TGCTGTTGATTGCTTCGTTGTG	1061
352	GCCATCGTTATCAGCATCCA	333
361	AACTCGCTTAGCGTGAATGGC	341
340	TCCTGGTGGACAATGTGAAGTTG	318
526	AATCCAATCCAATATATCTTGCC	503
324	TGGTTCAATGTGATCAACTGGT	303
145	GAACTTGGCTGAGGAGCTCTTCTAG	121
314	GAATACGTGCAATTATGTTTCGATT	291
219	ACGATCCGGAGAATCCGTTT	200
356	AGTCACATCATCTCCAGTTCGTT	334
223	CACCGAGGAAGATGAAGTAGAATAGC	198
668	AATGAATCGGTGCGGAATGC	649
1153	GGAGAGTATCACGAAGTAGAAGTGC	1129
1451	GATACACGGCTCCTTGCTCA	1432
1500	GATACACGGCTCCTTGCTCA	1481

616	CCAACGAGAGAACGACGCTA	597
494	CCAACGAGAGAACGACGCTA	475
1421	TCTCCTTCATTACTTGCTGCTCT	1399
1285	TCTCCTTCATTACTTGCTGCTCT	1263
259	CCAGGATATTCGTTACCACTGATG	236
323	CCTTATTACACTCCGACGCTCA	302
167	CATAGAGACAGAAGAAGAGACACACG	142
1060	TGCCGTAGCGAATGAAGTAGAAG	1038
617	CATCCGTCATGATTATTGATCAGTT	593
273	TTCCACAGTGGCTTCAGTTGT	253
498	CAACGATCACTGACCATCACC	478
498	CAACGATCACTGACCATCACC	478
561	CTTGAATAATTCTCTGAAGGCAGTT	537
409	GCTGAGACGCTTCTGGACTTC	389
1790	AATCATCTCTCCGAATGTATGTGTT	1766
1329	TCTGTAGTAAGAATCGGTAGAGTCCA	1304
458	ATAGCAGACTCGGATTCGGA	439
1466	AAGAATCAGAAGCGTCCAGAGTG	1444
128	TTGAGCGGTCTCTGAACACG	109
592	GATCATTCCACTGACCACACG	572
592	GATCATTCCACTGACCACACG	572
1128	ATTCCATTGCGCACGCATCT	1109
1259	ATTCCATTGCGCACGCATCT	1240
1036	ATTCCATTGCGCACGCATCT	1017
1167	ATTCCATTGCGCACGCATCT	1148
189	GTCGAATCCATGCGTTACCA	170
438	ATTGGATTGTTGTTGTGGTTCA	417
438	ATTGGATTGTTGTTGTGGTTCA	417
438	ATTGGATTGTTGTTGTGGTTCA	417
438	ATTGGATTGTTGTTGTGGTTCA	417
341	ATTGGATTGTTGTTGTGGTTCA	320
341	ATTGGATTGTTGTTGTGGTTCA	320
388	CCATTCAGCTTCTAGTTCTGGTG	366
499	CTCGTGACCGTAATCTTCATCA	478
438	ATTGGATTGTTGTTGTGGTTCA	417
341	ATTGGATTGTTGTTGTGGTTCA	320
388	CCATTCAGCTTCTAGTTCTGGTG	366
438	ATTGGATTGTTGTTGTGGTTCA	417
341	ATTGGATTGTTGTTGTGGTTCA	320
388	CCATTCAGCTTCTAGTTCTGGTG	366
1615	TGCCATTGTATCCAGCCATT	1596
1559	TGCCATTGTATCCAGCCATT	1540
602	CGGCACGATTGTATGAGGCT	583
1396	AAGAAGTGACAAGAGGCGAGAA	1375

1409	AAGAAGTGACAAGAGGCGAGAA	1388
1527	AAGAAGTGACAAGAGGCGAGAA	1506
758	ATGCGGTTGAGACGAGTTGG	739
435	GAATCGCTGGAGAGAGGAATC	415
8086	CTTCAACTTCAAGAATAAGAACCACA	8061
1651	GCAATCACAAGCCATCCAGT	1632
1651	GCAATCACAAGCCATCCAGT	1632
968	ACGCCAATGAGTCCGAGTAG	949
588	TCAATTGTCATCATCTACGAGTTCA	564
369	GCACCAACTGTCATCCACAA	350
385	GCACCAACTGTCATCCACAA	366
541	CAGCACGAGATACTCCACCAT	521
1441	TGAGTCCTGCGTGATAATGAGC	1420
4360	GTCCTCTCCAATCTTCTTCTCAC	4337
427	GGAAGCCGATTGAACCATTG	408
211	CCTGTAGAAGCTGGACGAAGAG	190
286	GGAAGAGAATGGCACACGGA	267
291	TAGGATTGAGCATGGAGCATT	271
334	CATGTGTCACTTGCTCATTCG	314
128	CATGGCTCTTGATCTAATACCTCTAAG	102
920	AAGAGTGGTTCTAATCCTGGCA	899
920	AAGAGTGGTTCTAATCCTGGCA	899
897	AATATCGGTGCAGACACTGTCA	876
3157	GATCCGAGAGTGATCCGAGGT	3137
278	AACCATCCACTGAAGATTGAGC	257
353	CCATAATGACCATGTTTCATCAGC	331
265	GGCTGTATGGATCTTCCGATT	245
584	TGCTGACTGACACGGTTCTTG	564
126	TGAAGACGAAGCAGAAGTATGAAGG	102
328	TCAGATGTCTTGAATTATTCGATGAC	303
832	AAGAGCAGAATGCGAAGAGTCT	811
862	AGCATATTGTCATTAGGATTACCATCT	836
1027	GATAATGTGATGACACTGTAAGGCA	1003
361	GATCTTCGAGAGCTGATGCC	342
426	TGCGTAGGCGGTGTAGTGAATG	405
345	CGTGACCATAGTGATGCACAAC	324
121	CATTCTCCTCGATTCCAACG	102
96	ATCATCGAAGTCGGCTTGCT	77
96	ATCATCGAAGTCGGCTTGCT	77
501	GGTAGTTGAATGTGTTGCTGGTG	479
584	AACGGTACTCTTGTTGTCCTGAC	562
1263	CCATCATCTTCCTCATCGTCA	1243
167	GCCTCATGGTGGAGTTCATTC	147
1096	CGTGTATCGTGTTCCGTCCT	1077

828	TGTTGGCGGATGTGTACTGTT	808
649	GAATGTAGATTGACGCTGCCA	629
239	CGTTAGTCGGAAGATTGTGAGAA	217
4909	GAGGATGATGATGTCGGCTAA	4889
4714	GAGGATGATGATGTCGGCTAA	4694
3485	CGTGCGTGGAGACTACCGTT	3466
3680	CGTGCGTGGAGACTACCGTT	3661
4864	GAGGATGATGATGTCGGCTAA	4844
4669	GAGGATGATGATGTCGGCTAA	4649
3485	CGTGCGTGGAGACTACCGTT	3466
3680	CGTGCGTGGAGACTACCGTT	3661
469	GAGGATGATGATGTCGGCTAA	449
202	GGAGGATAGCGGTCCAGTGT	183
495	GTGACGGAGTTGGCACAGAT	476
222	CTCATCAGAGCTCAATGTCTCG	201
855	GAAGGATAATGAGCAGCCACACC	833
798	ACATTAGAGAACGCTCTGTTGTTG	775
663	AAGCCTCTTCGGTTCATCA	644
780	TTCTTCTTCTCCATTCGGTCCA	759
381	CTGTGGTGTGTTGATTGCTGAG	360
200	GCAATCGCTCCTCCAATACC	181
1699	GAACGGCTTCTGTGGTGCTC	1680
234	GTCATTGGCGGTGGAAC TTG	215
174	GTCATTGGCGGTGGAAC TTG	155
185	GTCATTGGCGGTGGAAC TTG	166
234	GTCATTGGCGGTGGAAC TTG	215
1407	GAACGGCTTCTGTGGTGCTC	1388
600	CTTCAATGTGTCGCCGCTCT	581
172	GGCTTCGAACACGGTACACA	153
1014	GGCGATGACAGATTCACTCG	995
127	GGACGTTGTACATATATCACATGAACA	101
629	GGTGCTCAGCTTCTTCTCGTG	609
486	GGTGCTCAGCTTCTTCTCGTG	466
779	GCTGAATGAGAGGATGGTGTTG	758
722	CCGAGTCTTGAGAGTCTTCACACTG	698
242	GTCATCCAGATCCTCGTTG	223
496	GCTTCTGGACTAGAGTGGACCA	475
586	CAACATCACTCGGAGTATCAGC	565
145	GATTAGGCACTGGAATTGGCT	125
341	CATGGTTGCTCCGGATTGAG	322
730	GGAAGCAGGACTGGAGGAAT	711
806	AAGCAGGATTGGAGGAAGAGGTT	784
928	GGAGGTACTTGTATTGGATGAGAAC	904
1546	GCAGCAATGGATAGACTGGTTC	1525

217	GATGTTCTTGTTGGCGTTGC	198
618	GGCGATAAGCAAGATTGAATG	598
160	TGTAAGCAGGAATGTGGTAGTCA	138
128	GGTTGACCATCTCGTTGACAGA	107
131	GGTTGACCATCTCGTTGACAGA	110
172	GGTTGACCATCTCGTTGACAGA	151
439	GAACACCGCAATGAGTTACACG	418
241	GAACACCGCAATGAGTTACACG	220
860	AACGGCATGTTGCTGTGCTC	841
875	GGTTCATCACAGAATAAGATTGGAG	851
1516	CTCTTCAGCACCGTCTTCCG	1497
784	GAAGAGCAAGAGATACACGATGG	762
646	GAAGAGCAAGAGATACACGATGG	624
1243	AACCAGGCAGACAGTCGCATT	1223
1272	GGATTATGATGAGGAATAAGTTCGTT	1247
1272	GGATTATGATGAGGAATAAGTTCGTT	1247
526	AGAGTGTGGCAGTCATCGC	507
216	GGATCTTGCTTCGTCAATCGT	196
793	ACAGCCTCGTTGGAAGTTGG	774
1593	ACGGCTGCGAAGATTGAGAT	1574
1095	TGTAGTGTCCGAATAGGCTTGA	1074
288	AATCGTGCATAATCGAATACAACA	265
335	GGAATACAACAGCCATCACAGG	314
864	AGAGCCGTTGATGCCTGGTT	845
473	AGAGCCGTTGATGCCTGGTT	454
126	AGAGCCGTTGATGCCTGGTT	107
555	AGAGCCGTTGATGCCTGGTT	536
885	AGAGCCGTTGATGCCTGGTT	866
617	GCAGATCCAATTGCGATGAAG	597
713	GCAGATCCAATTGCGATGAAG	693
183	TGAGATTGCTGGAGCACTCA	164
653	AAGCGACGAAGGAACGAGTA	634
151	TTCAGCATAGGCTTCAATTGG	131
133	AAGATGCGATTCCGACCTAA	114
133	ACCGACGTTGCCAATCTTCC	114
2143	CGCCTTGTTCTTGGTATTGTG	2123
605	TCTTCCTGGCTTCTCATTGG	586
605	TCTTCCTGGCTTCTCATTGG	586
1495	GAATCATCGGTCTTGTGTAGGAA	1473
527	GATGCACTCGATGTTGGTGA	508
476	CGAGTCTGTGCATTCTCTGTCC	455
452	GTTCGTGCTGATGATGAGTTAGAG	429
167	AGCCGAAGAACTGAGCACCT	148
585	AGTTGCCTTAGTTCCACACACA	564

278	TCTGGAATAAGAACTGCCTTATGG	255
1963	TCTTCTTCATCTTCCGACCACTT	1941
98	CAATGTACCGGTCATGGAGGAG	77
170	CCTGTTATACTCCACCTGCTCCA	148
266	GCGGACAGTTCGGTTCGTAA	247
131	AAGAAGTACCGCTCCACCGA	112
250	GATCCTGTGTGACACGTCCAC	230
125	CGGCTAACATCGGACTTCAGG	105
195	TTGATCAGCGAGTACCATTGG	175
832	ACTTCACTGGTCTCTGGTCGTT	811
830	ACTTCACTGGTCTCTGGTCGTT	809
105	TTCCGTTGCACTTCCAGATG	86
2414	TGTGTGTGAGCGTGTGAGAGA	2394
720	TGGAATGAGAATACGGCGAT	701
323	GTAGTGTTGGCTCAGGAGGATG	302
198	TCAGGAAGAAGTTGTGGACACA	177
2441	TCATCATCAGAGAGAAGAAGTCGTC	2417
502	AGTCTCCGCATACCAACACG	483
136	CCGAGTCAGAGAAGTAGAAGCAA	114
515	GTGATTCCGTCGTTGATGCC	496
1810	AGACTGACGCTTCACACGACT	1790
784	TTCCAGCCATACTTGAGACCAG	763
165	TCTTGTACTTCTCGGCAACCTC	144
126	TCAACAGTACTACGCATCTCATAGG	102
284	CGATGGAAGAGCAGGAACAG	265
853	CACGATTAGAGAGACTGCTGGAT	831
474	CGAACAATGGTGGATGAGCA	455
661	AGTCGTCGTTATGCCGCTTC	642
544	AGTCGTCGTTATGCCGCTTC	525
314	GCATTGTTGTTAATTGATGAGAAGC	290
136	AGGCTACGAGAGAGGTTGGAC	116
136	AGGCTACGAGAGAGGTTGGAC	116
136	AGGCTACGAGAGAGGTTGGAC	116
218	GGAGCTTCCTTCTCGTCTTGT	198
1277	GTAGATCGTCCAGATATACGCACTT	1253
694	CCGTCTGGTTAAGGAGGACA	675
417	TGAAGAGATGGTTCGGATTGG	397
484	TGAAGAGATGGTTCGGATTGG	464
145	GTCGGCTATTGCTCCTGCTC	126
627	ATAAGCTGGCATCATGTTGTTG	606
404	AGTGCGGCAATCATCGACTC	385
544	TGAGGAAGACCAGAGGCAGA	525
3408	TGGTCTTCTGGCTTCTTCTTCA	3387
495	ATCATTGTCTTCATAGTTGTTCCG	472

192	ATCTACTTCTGCTGCTGTCGGT	171
304	TGTTCCGATAGCGGTTGAGA	285
100	CGAGCGTTCTGATCCTTCCA	81
991	AGTTCAGCAATCACACATCCTAAG	968
1256	AGTTCAGCAATCACACATCCTAAG	1233
869	AGTTCAGCAATCACACATCCTAAG	846
929	AGTTCAGCAATCACACATCCTAAG	906
1751	GCACAACAACATTCCAACCATC	1730
1700	GCACAACAACATTCCAACCATC	1679
1248	GCACAACAACATTCCAACCATC	1227
1751	GCACAACAACATTCCAACCATC	1730
1182	GCACAACAACATTCCAACCATC	1161
1754	GCACAACAACATTCCAACCATC	1733
1670	CAGACACATCACGAATCTCATTG	1648
1628	CAGACACATCACGAATCTCATTG	1606
692	ACTGTTGCACCACGTTGAGG	673
497	ACTGTTGCACCACGTTGAGG	478
1670	CAGACACATCACGAATCTCATTG	1648
410	ACTGTTGCACCACGTTGAGG	391
367	ATTGATGATGCGATGGTGGA	348
178	ATTGATGATGCGATGGTGGA	159
122	ATTGATGATGCGATGGTGGA	103
124	GAATTGCTGAAGTTATGTTATAATGAGG	97
127	TCTGAATTCTTCTGCGGTTCC	107
102	TCTGAATTCTTCTGCGGTTCC	82
611	TGACGGTCGAGTTATGTTGATC	590
603	TGAATAAGATAACATCTCAGATCCAACT	576
184	AGAGAGCTTGACAGACACGAAGA	163
498	AGAGAGCTTGACAGACACGAAGA	477
135	ACACCGCTCCGAACAACAAC	116
135	ACCTCTGGCTCCTTCTCGTT	116
407	AGGCGAAGATGGTTCCACTAC	387
144	TGGAATGGTCAGAGTATGTAAGAGG	120
141	GTGTGGCAGATACGGCTCTG	122
1575	AGTTGACCAGCGTTCGTTCTG	1556
1086	AGTTGACCAGCGTTCGTTCTG	1067
674	AGGAAGACAATGGCAAGATGG	654
318	TGGTGGTATCATTGTTGTCG	298
447	GCTTCATCCAGTTCACCGAGT	427
916	TGAGAATGAAGAACGGAGTGC	896
979	TGAGAATGAAGAACGGAGTGC	959
1004	TGAGAATGAAGAACGGAGTGC	984
322	GTGGAGAAGCAGTTGATGGC	303
171	TTGGATTCTCTTGTTCACTCA	149

471	TTGGATTCTCTTGTTCACTCA	449
411	TCGTTTCGGTTGTTGACTGGA	392
313	AGAGCCGCCTTGTGGAGATG	294
1748	GTCCTTCGTTGTTTCGGTTCA	1729
336	CGAGAGATGGAGATGATTGAACT	314
496	TTATGAACATTGGATGGAACGAT	474
266	ATTGACTCCTGAACCGCTGTA	246
625	GGCGTCGGTTGTCTTCTATG	606
1567	GGAGGCAACACTGGATGGAC	1548
964	AATTGTTTACAGGAATTGAAGGT	941
396	TGGTGTGGTTCAGCGAATC	377
708	TTCACGATCTTCGTCGATGG	689
848	CCAATCGCCTGAAGTGTGCT	829
494	TGAAGTAGAGAGCATTGGTGAGAA	471
494	TGAAGTAGAGAGCATTGGTGAGAA	471
494	TGAAGTAGAGAGCATTGGTGAGAA	471
596	TGAAGTAGAGAGCATTGGTGAGAA	573
198	TGAAGAGTCTGGATCGTGCTG	178
237	GAGAACATCACCGTAACGACTTC	215
393	CGTAGACGAGTGCTTCTTATTGG	371
194	AAGTCAGTCACGAAGTCTTGTGC	172
448	TTGACCGTTCACCAACCGAT	429
202	CGGAACGACAACCTGCTATTGG	182
161	AGCGTATTCTCAGCGTCTTGC	141
140	AGCGTATTCTCAGCGTCTTGC	120
769	CATGGCTCGTCATTATATATATGAGGAT	742
423	CAATACAACCGTGAATGCTGAA	402
521	GCAACGTAGACGCATTCTC	502
820	TGAAGTTGGCAATTCCTCCA	801
756	GGTAATGCTCGCAATCAACG	737
123	CAAGCACACACGCATAGAACC	103
564	ATCCACCGAACACGACTTGC	545
270	AGAACAGTTAGACCGTCTTCGC	249
1152	GCGGTAGGTTGCTGATGACG	1133
532	GCGGTAGGTTGCTGATGACG	513
1075	TCTTATACAGTGGTTCATCCTTGC	1052
1207	GCTCCTTCATCCACAATTACCA	1186
531	TTGTTATCCTTGGCTGTTGCG	511
702	TTGTTATCCTTGGCTGTTGCG	682
559	TTGTTATCCTTGGCTGTTGCG	539
259	GGAGCAATGACCAGAACACG	240
3992	TCTCCGATGAACCGTCTTCTATC	3970
1149	CACCTGATTCCGCATCCTTG	1130
404	CGCAGAACAAGCCAGAGTATG	384

1231	TTCCAGCACAAAGTCTCACATTC	1210
522	GACGGTTGGAGTTGAAGGCT	503
176	GCGAGGTGAGCAACAAGTGG	157
1434	CCAGGTCCAGCATATTATCGTT	1413
119	CCAATGACGCCTTCTCCAAC	100
513	ATGTGGTCTGGCGTGCTTAC	494
276	ATGTGGTCTGGCGTGCTTAC	257
531	ATGTGGTCTGGCGTGCTTAC	512
565	TTGCTCTGTGCGAATCCTTG	546
632	TTGCTCTGTGCGAATCCTTG	613
735	TTGCTCTGTGCGAATCCTTG	716
745	TTGCTCTGTGCGAATCCTTG	726
653	TTGCTCTGTGCGAATCCTTG	634
593	TTGCTCTGTGCGAATCCTTG	574
788	TTGCTCTGTGCGAATCCTTG	769
1091	CTACATCTGCGCGTTCCAGT	1072
923	GTGGCGATTGGAGTTGGCTT	904
157	ATACGAGAAGCTCATATTCCTGATC	133
245	TGACTTCCACCGAGCACAAAC	226
504	CCTCCTCTCTGTCACAATCCA	484
1637	GAGAATTGATTGATGGTACAAGTGAC	1612
608	TTACACTCCTTCACGACTTCCAGA	585
210	TGTTGATTGATGTTGCGGTGTGG	189
925	GCAGCAGCGATAGAAGTGACG	905
161	TTGCGGAACGAAGTGGTGAA	142
394	CGTGACAGTGTGGACATTCCG	375
234	CTTGAAGTTCTTGTGACGAGTT	212
494	CTTGAAGTTCTTGTGACGAGTT	472
179	CGTCAATTAATGATAGACGTTCCG	156
969	CAAGTCTGTGAGGCTATTATCCG	947
236	GCAGTCACCATTATGATTATTGATCC	211
138	TTGATAAGTCAGAACAAGCGGTT	116
420	TATTAGTCCGCACACACCGA	401
288	TGCTATAAGAATGTTCAATCTCTGCA	263
130	AGAGACGGAATGGTTGATAGTAGG	107
703	AACACATCACAGCAATGAATCC	682
703	AACACATCACAGCAATGAATCC	682
375	CGATAGTATCCATGCCAATAATAGTG	350
182	TCACGGAACGAAGATGATCC	163
250	CGGCATCGTAGACGTAGTTCC	230
3595	GCTCTCCATTGATTCTTGCTG	3575
705	TTGGAAGACTGAGTTAATCCATTG	682
645	TTGGAAGACTGAGTTAATCCATTG	622
227	TTCCAACCATGCTCCGCTCT	208

227 TTCCAACCATGCTCCGCTCT	208
122 GGCAACAGTTCATTGTGTGGAT	101
1233 GATGATGGTGGTGACCGTGT	1214
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336 GAGACATCATGGAATGCGAGA	316
770 TCTTGATGTTGACTTGATTGTTGA	747
746 TCTTGATGTTGACTTGATTGTTGA	723
363 AATGTCTGAGATGCTGGCTTCC	342
296 TGTCCAGATTGAGCGTCTTGA	276
437 TGAGGAAGTTCAGATATGGATGC	415
614 ATCCGACTCAATGATGCCAA	595
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577 ATCCGACTCAATGATGCCAA	558
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627 ATCCGACTCAATGATGCCAA	608
627 ATCCGACTCAATGATGCCAA	608
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1316 TCCGAAGATGATGATAAGGTTGA	1294
366 GCTTCTCGGTTGGACACTTC	347
151 CGGAAGACGATGAATGGAAGC	131
533 TCATGTGATCTTCTGCGAGCA	513
631 TCATGTGATCTTCTGCGAGCA	611
631 TCATGTGATCTTCTGCGAGCA	611
571 TCATGTGATCTTCTGCGAGCA	551
2133 GAAGACACCACAATCATGCG	2114
2227 GAAGACACCACAATCATGCG	2208
639 GAAGACACCACAATCATGCG	620
149 GAAGACACCACAATCATGCG	130
547 GAAGACACCACAATCATGCG	528
475 GAAGACACCACAATCATGCG	456
483 TAGCGGTCTTCTGCTCCAC	464
603 AACGATCTGCGTATGAGTGATCT	581
285 AACTCTCACCCTAGAGAATGATC	261
598 CTTGCTTGTGACGACCTGATGT	577
166 CTGCAGACATTACTCGGACAAC	145
255 CGTTGTTGTTGAAGGCGAATC	235

1011	TCCAATTCCACAGTTAATTCGTTT	988
226	CGTTCAGGTTAAGAATCGAAGTTCC	202
423	CGTTCAGGTTAAGAATCGAAGTTCC	399
987	GGTTCTGCTCACGGTTCTGC	968
145	AGCAGGAGCTGCTCCAGGTG	126
232	TTGAGTACAGCGGAGCATCGT	212
307	GCCGATTGAGGTTGATGACT	288
232	TTGAGTACAGCGGAGCATCGT	212
604	CGTGTGTTGTGAGAATGAGCCT	582
127	TAGGCTGTGGCGGACAAGGT	108
206	GCAGATCGTCTCTGTCGTAC	186
361	ATGGTTGGTGTGGTGGTGT	342
384	ACTTGGTGAGGCTGTTGTCTG	365
258	CGAATAGATGTGCTGGTGAAGA	237
401	CGAATAGATGTGCTGGTGAAGA	380
226	TCATAACCGAAGAATAGATTGTCTGA	201
217	AACCGCTCACTTGACCGATT	198
217	AACCGCTCACTTGACCGATT	198
706	CGCTTCACCATCTCTGCCAT	687
547	CAATCCAGAGAACCGAATACATC	525
950	CAGCTTGACAGTCTTGGTCTTCT	928
867	GATTGACTGTGTAGAAGAGCGGTT	844
663	TGGTGGTGGACGAGTGAAGT	644
333	ATCACAAGAAGAAGTCTCAAC	311
565	GCCTTGGAGGTGTACGAGGA	546
391	GGAATGCAGCCGAGACAATG	372
789	ACTGATATAAGGAAGAAGAGTCACTGC	763
182	GGAGATAAGAATACTCGATCATAGTTCA	155
929	GGAGTCGTCGTTGCTGTGGT	910
939	GGAGTCGTCGTTGCTGTGGT	920
928	GCATCATCATCGCTGTGGTA	909
1026	GCATCATCATCGCTGTGGTA	1007
670	CTCTTCGGTCAGAGGTTGGTAT	649
371	CGGTCGCTCCAATCTTCACA	352
339	CGAACTTGCTCTTGGTCTTGC	319
311	CCAGTCAGAACGCAGTGAAGAC	290
831	CATGAGGTGGAACGAGTCAGG	811
2801	AAGTCCGAATCTCCACCAATC	2781
141	ATCTGGTTCGACGTGCTTGT	122
665	CCACATCCGACACATCCACA	646
700	AGCAGGTCTTCTTCGGCAAC	681
5627	GTTGCGTCTCCTGAATCCAC	5608
5639	GGTGTGTATGATGTGGAACGC	5619
1886	TCACAGCATCCATACTCTTCTCC	1864

713	AAGACGTGGCTGATACTTGTGC	692
140	GACAATCTTCTGAATCCAGCATG	118
132	AGCCAACAGCAACAATACTTCC	111
158	TCAATGTCTAATCCAGCCTTCA	137
1534	CGACAATCACAGCAGTATCCG	1514
1813	GAGTTGAACGGAGATTGGCA	1794
466	CAACGATGGATCAACTCCTGTA	445
600	TCTCACTACTGCTCGCTCACAT	579
170	TGGTCTCTATCCGACATCTGC	150
1160	TCGTATTGGTATGCTTGATGCC	1139
1170	TCGTATTGGTATGCTTGATGCC	1149
452	CGGAATGTATGAGTCTGTCGTAAC	429
491	CCGGAAGTAACCTGCACTGG	472
200	AAGAACTGTGAATCGGCCAA	181
451	ACAGCCACAGCGGTTCCAGT	432
699	ACAGCCACAGCGGTTCCAGT	680
419	GCCGAGTTGTTCATAGCTCCA	399
407	TGAGCCTGTGGCTGAGAGAA	388
420	TTGAGGTAGGCTACTGCTTCG	400
814	TTCCATCCGCTTCATCAACA	795
127	AAGGTGAGAGTGCTCCGAGGA	107
151	AACTAATTCGGTAGCCGCTTG	131
228	AGATCATGTGAAGAAGCCTACGG	206
242	ATGTCAACCTGGAGCGGAAT	223
754	TGTGAAGATCAATATCATCGTCATTC	729
996	TGTGAAGATCAATATCATCGTCATTC	971
373	GTCTTCGGTGTGTCAGTGTCC	353
1299	CACAGTTGTTGTCTTCGTGTGT	1277
320	TTCTCAGTGTTGACCTCTTCCA	299
356	CACTGAGACTTGTAGCGGTTGTAG	333
96	AGATGCAGTGGAGGCAGTCG	77
363	TTGCTGGTATCCGGATAACC	344
243	ACTATCGCCTCCTTCAGCCTA	223
710	GCCGTTGTTCTCTTACCATCA	690
220	ACGGATGACGTTCTCAAGGA	201
133	TTATCCTCGGTGCTCGTGTT	114
139	CGAGCACCGAGGATAACCAT	120
121	CGTTGTGCGCGTTGTCTTAA	102
145	GAGTCACATTGCACCACGCT	126
158	TGAGATCAATAATGGAATAATGTGGATG	131
2176	GGTTGACGGATTGGCTTACTC	2156
578	ACTTAATGTTTCGACCAATATTCTGG	554
578	ACTTAATGTTTCGACCAATATTCTGG	554
1112	CAAGCAGGAGTAGAGCACAATG	1091

1309	GCTTCTCATCCACGCTCACT	1290
413	CAATCAGTCATGTCTTCGCCAA	392
445	TTGATGGAATGGAGATCGAGTAC	423
592	TTGCGGAAGATTGGTGACAC	573
584	TTGCGGAAGATTGGTGACAC	565
566	TTGCGGAAGATTGGTGACAC	547
368	AGCATTGAACACGGTAGGCA	349
306	AGAGTGGATATACTTCATAAGCGTGA	281
250	AGAGTGGATATACTTCATAAGCGTGA	225
951	CGATTGAACTTGATGTGAGCGA	930
185	GCAGTGGTTACACATGTCAATCC	163
3271	GGACCGAAGAGATGATGGCT	3252
114	TCGTCCAACCTCCAAGCCATA	95
603	ACATAATACTGACAAGAATCCTCCGAAT	576
953	TCATGACTTCTTGACTCTATAACTGCTT	926
794	TCGTGGCGTAGAAGAGAGCA	775
186	CCACCAACTCCAGAAGCCAT	167
188	CGGTTAGAAGTGAATAGACAAGGAACA	162
295	GATCTTCGTGATGAGCAGCA	276
116	CCGTATCCATAACAATCGTAGTCA	93
1302	GCTACTGGCTCACTTCTCCGT	1282
769	TTGACCTTCACCTTCACATTCTTG	746
521	GAACAATCGTTAGACTCGGACAA	499
670	GACAATCTCCGCCGAATCTG	651
164	TCCTACGTGGTGGTATGTTGAAG	142
644	CCAGTTGTAAGAAGGCGGTCA	624
834	ATCAGCGAATGGAACATAGATCA	812
742	CGAATGGAGATGGAACACCT	723
767	CGAATGGAGATGGAACACCT	748
767	CGAATGGAGATGGAACACCT	748
483	CAACCTCATCACCACAGTCATAGC	460
158	AACAACGAGGTGGTCCATGT	139
1410	CGGTGAATACGAGACGAGGT	1391
1437	CGGTGAATACGAGACGAGGT	1418
742	CACATAACCGTCCGCTTCTTCT	721
422	ATTCGAGATGGCAAGCAAGA	403
742	CACATAACCGTCCGCTTCTTCT	721
733	CACATAACCGTCCGCTTCTTCT	712
742	CACATAACCGTCCGCTTCTTCT	721
742	CACATAACCGTCCGCTTCTTCT	721
180	GATATTGAATCGGTCTACTGCGT	158
422	ATTCGAGATGGCAAGCAAGA	403
830	ACGCACGAAGTGGCTGGATT	811
1123	GCAGACATCAAGAAGAAGCAAGT	1101

135	GCTAGAATTGCGGAGAACACG	115
170	AAGAACCACGCATCATTGTAGA	149
856	ATAGTTGTTGAGGAATGCTTGATG	833
386	GGATGTCTTAGTAATCGGTGTGC	364
418	GAGGATGATAGATTGATGAGAGAAGA	393
474	GAGGATGATAGATTGATGAGAGAAGA	449
533	GAGGATGATAGATTGATGAGAGAAGA	508
121	TCCAATCAGCCATATCGAGAA	101
379	ACGTCTACAGTAATTGTCGTTGGC	356
104	TGTTGTTGTTCTGTTCTCCATTG	83
992	TGACAGATGGCGACGAGTTC	973
433	CTACGGACTCGGTCAACTCG	414
359	TCCACAATATCCGCAAGCAT	340
476	TCCACAATATCCGCAAGCAT	457
1199	TGAATACTTACTGGAGTCGATGCTC	1175
1199	TGAATACTTACTGGAGTCGATGCTC	1175
194	GAGACTCAGCACGCAGGAAT	175
831	GCAGTTAGTGGCATCGCATT	812
124	CGTCAGAGTCAATGGAACCG	105
3104	CAACACAGCATCATCGCCAT	3085
742	GGCAGCGATAAGCATAGCAA	723
844	TGATGAACGGAATGACAACCA	824
844	TGATGAACGGAATGACAACCA	824
124	TTGGCGATATGATCATGGATT	104
136	TGATTGCTTATGGATGTTCAAGTT	113
130	TGGTAAGACAGTTAGAGACACAGACA	105
2263	ACTTGATGGTGGTGCGAACA	2244
127	TGTATCCGCCATTGTGCATT	108
391	CACGTACTTGCCATCTCTGATC	370
500	GCCTTCTGGAGTGAACGAGA	481
2022	CGACATTGAAGGTGGAGAGAG	2002
2128	CGACATTGAAGGTGGAGAGAG	2108
1051	AGACCACGATTCTGAAGATGCT	1030
1157	AGACCACGATTCTGAAGATGCT	1136
1240	CGACATTGAAGGTGGAGAGAG	1220
1051	AGACCACGATTCTGAAGATGCT	1030
1157	AGACCACGATTCTGAAGATGCT	1136
1810	CGACATTGAAGGTGGAGAGAG	1790
2128	CGACATTGAAGGTGGAGAGAG	2108
161	TTCTCTGTCAACCTATTCACATTCC	137
143	TGTCCTCTCTTCCTTGCTCCT	123
143	GATTGGTGGAGAAGCAGAGTG	123
1083	CTTGTGATGATCCTGGAAGTCA	1062
686	GGTGACTCTGTGCTGTCTGATG	665

476	AACTTGTGACGGTGGCATCT	457
547	AACTTGTGACGGTGGCATCT	528
962	GATATCGGTTCCAATCCTGTTG	941
465	AACTCGTGAAGCATATTCGTGTAG	442
673	AACTCGTGAAGCATATTCGTGTAG	650
225	CGGATATCTGTTCTTGCATGTAAC	202
1413	TGAGGCGTTGATTGAGGATG	1394
428	GGAACGTGAACTATTCGATTGTC	406
182	TCGTATGCTAGAAGGTCGTCTGG	160
867	TTATGTTCCGTCATTATCGTTGC	845
540	TCGTGTAGATTGCGGCGATG	521
330	TGCCTTGCTGACGACTCCTT	311
487	TGAAGGAGCGTGACAGACCA	468
316	GGATGGAGGAATATTCGAGTACG	294
569	CCAGAAGCCGATGATTGACT	550
179	AACATTGAATTGCTGATCCGA	159
1118	GACGGTTACGGCTGCTGCTC	1099
901	GACGGTTACGGCTGCTGCTC	882
635	TGAGTGCCTCGTAGATTGCCT	615
224	TCGTGAAGTACCAAGTCGCAT	204
160	GCGACTGGATAATACGACATCC	139
760	TGAGCGGTTGATGATGGATT	741
760	TGAGCGGTTGATGATGGATT	741
1229	GCATACGCTGTTGTGTAGACTCC	1207
1229	GCATACGCTGTTGTGTAGACTCC	1207
1377	ATTGGTTCACTGGTGAGGATG	1357
422	ATATTCTCCAGCAAGTTGGTCTG	400
1059	CTCCAACATGAGAGACTCCACTT	1037
369	ATGGCTTCGGAGGTAGGATT	350
369	ATGGCTTCGGAGGTAGGATT	350
449	TGAACAGGCACCATTCGGAA	430
538	TGAACAGGCACCATTCGGAA	519
520	TCCGTGTCTGGTGCTCAATC	501
973	TTGTCCACCTGATTCCGAGA	954
3053	CATCTCCATTATTCCGTTGTCC	3032
2432	CATCTCCATTATTCCGTTGTCC	2411
2157	CATCTCCATTATTCCGTTGTCC	2136
6106	TCCAGTCAGTGTTGTGTTCCGA	6085
3354	TCCAGTCAGTGTTGTGTTCCGA	3333
3362	TCCAGTCAGTGTTGTGTTCCGA	3341
109	CGCTGCTGTTGCTTCTTGT	90
287	CCGTCCTGGTGTCTGCTTCC	268
237	TGATGATGATGATGATATGGTTCCTC	212
153	AATCGCTATGAAGTTCTGTCTGA	130

924	TGCTATGTACCGTATCCACAACA	902
924	TGCTATGTACCGTATCCACAACA	902
76	CTTGGTAGCCTGAAGAGTTATCTGT	52
242	AATGCAACAGTCTTCATTGGTGT	220
426	TGTGTCTTCTTCCAGTTCATCTCTA	402
244	TCCGTTACAGGCACGACAT	225
418	AAGGTGAAGAGGAGTGTGATGAC	396
385	GTGAGAATGTGTAGCTGAGACTTGA	361
422	GTGAGAATGTGTAGCTGAGACTTGA	398
181	ATGGAGATTGTGGCTGTTGAG	161
385	GTGAGAATGTGTAGCTGAGACTTGA	361
422	GTGAGAATGTGTAGCTGAGACTTGA	398
1443	GTGATCGCATGACAATGTTACC	1422
783	GACCTTCCATATCAGCAAGACG	762
824	GACCTTCCATATCAGCAAGACG	803
827	GACCTTCCATATCAGCAAGACG	806
2246	CTCGTCGGCTGGAATCTCTT	2227
2231	CTCGTCGGCTGGAATCTCTT	2212
2697	GCTGATTCAACTCCGAGACGA	2677
2701	GCTGATTCAACTCCGAGACGA	2681
2726	GCTGATTCAACTCCGAGACGA	2706
101	GATCCGAAGAGGTTGAGGCA	82
281	CACGGTCCGTTGAAGTGTTT	262
937	AACTTCCATATTCGTCCAGGTACT	914
937	AACTTCCATATTCGTCCAGGTACT	914
366	TTCAGCCAGGTTCAATAGCG	347
416	AATTCCATTCCGTCTTCTGGT	396
2130	CGGATGCTGTTGTCATTACTTC	2109
138	GAGCATCGAGAAGACCGTACA	118
125	GAGCATCGAGAAGACCGTACA	105
117	GAGCATCGAGAAGACCGTACA	97
481	AATTGCTGGATTTCGATGACAG	461
192	CCGTTACTTGCGTCATCGTC	173
138	CCGTTACTTGCGTCATCGTC	119
963	AAGTCAGCGTCGAGCGGATC	944
125	GGCATTGGCTCTCTGTATGG	106
177	TGGCTGCTCTGTATCTCGTG	158
381	TGATTGAGGCGATGTGCTAA	362
502	AACTTGATTGAGGCGATGTGCTAA	479
888	ATGACGTTGGCGGATGGTAC	869
548	CGGATAGGACGAATGGCACT	529
599	CGGATAGGACGAATGGCACT	580
248	GCTTCATTCTTCTTCCTGATCG	227
1157	GATAGAACCACTGGCTTCATCC	1136

750	TTACGACACGAACGACTTGGA	730
171	TTCAGTGCTAGGCGTGGATT	152
172	GAACCTCTGCCTCGGTCAGT	153
749	GTGTCGGAGTGGCGGAAGTC	730
2807	TCATCTGATCTTGCTGGACTGA	2786
519	GCGGAGACTGACTTGAGACG	500
175	GACGCGAGTGCTCCAATACC	156
168	ATTATCGAAGCACTGATCCACTC	146
182	GTTGACAGATGGACGTGCTG	163
377	GCCGTCACTCCGAAGATGTAG	357
196	ACAGTTCAGACGAGATTCGA	176
756	GGTGAGATCGGTTGACTGAAGA	735
743	GATTCATTCTCCAAGCACACT	722
1206	ACACCGATGATGTTAATTATGATGA	1182
1266	CAATGAATGAAGTGCCGATGA	1246
745	GAAGACGTCACGCACCATTC	726
2154	TGGAGCACATTGAAGATACATTG	2132
333	CTTGCTTGAGGCTTCGTGGA	314
440	TTCGTTCTCTCGGCGGTATG	421
151	TTGGAGAGCGTGTGAAGTCG	132
954	CCATTCAATTACCATTGGACCT	933
897	CCAGTTGCGTTGAAGGCTAA	878
336	TCCACAAGCCACTCACTCAACA	315
549	CAACCGCCACTGCTACAAGA	530
305	CACAAGCTACTCGAATCATCTGTC	282
158	GCCTTAGTGCGTTCATCCTC	139
443	AGTCCTCCGACATCTGAATAGC	422
1189	TCTGCACCTAGTGCTTGGAACA	1168
181	CATTGCATTAATCCTCGGTGT	161
562	CGATGAGTCTGCCAATGTCC	543
1127	AAGATCGTACAAGTTCGCATGA	1106
172	TTGCTTGCTGTGGAAGGTTT	153
204	TTGCTTGCTGTGGAAGGTTT	185
1691	ACCA GTGAGAAGTTGTAGAATCGTC	1667
1691	ACCA GTGAGAAGTTGTAGAATCGTC	1667
140	AGATTGGAATGGCACTGGCA	121
200	AGATTGGAATGGCACTGGCA	181
93	AACCGTGTATCTTCCATTCC	73
815	CCTCTGAAGTTGTGAATACGGTGTT	791
472	GGCACGAATAACATCCGCAA	453
828	CGATGATAGTGGCAATAGGAAGC	806
277	GGCACGAATAACATCCGCAA	258
680	GGCACCTGTGGAGAAGTCAA	661
680	GGCACCTGTGGAGAAGTCAA	661

622	GGCACCTGTGGAGAAGTCAA	603
304	TGCGATGAGTCCAATGATGA	285
315	TGCGATGAGTCCAATGATGA	296
129	TCTCCAACCTTCGCATTGATTG	109
120	TTCGAGGTCTCCGTCTCGAT	101
179	AGCCATTCTCCTGCTCCAG	160
234	ACTGGAGTTGCCATTCTTCTCAA	212
293	GTACCGTTGCAGCTGACGAG	274
233	GCCTTCATGTAGTTGACCTCAGC	211
533	CAACACCAGTTCACCACGA	514
2188	TCGGTCGGAATGGTGTTC	2169
454	GCCGTCCAGTAAGAATCTCGTA	433
406	GCCGTCCAGTAAGAATCTCGTA	385
393	GCATCGCTGAAGTATTCGGAGA	372
1829	GGATATGGTGATGATGAAGTAGAGG	1805
528	TTGACATTGAACATTGGTGGAT	507
142	TCAACCTCATCCTCCTCGTC	123
142	TCAACCTCATCCTCCTCGTC	123
266	TTCAAGAACTCGCATCAGGATAC	244
951	TCCACCAACTGTCCTTCAA	932
1034	CATACGGAATGGTCGTTCTGA	1014
176	GCGTACTGAGTTGGCATGTCGT	155
245	AACAATTACTGGAACCATCGGT	224
205	GCGTACTGAGTTGGCATGTCGT	184
157	TGGTCATCTTCTTGCAGAATACAGA	133
127	TGGATCCGGAAGTTGGTGGT	108
130	GTTAAGAACAGAGAGATGAAGATGATGA	103
192	AAGAGGCATGGAGACATAGACATCT	168
109	CAGATGTCGCCAGTAAGCCA	90
1268	GGTCGTAACGGCAAGTTCCT	1249
604	TGATGTTGGAGCAGATGGTGA	584
930	TCCGTTCTCTCCAGATTGACA	910
1091	CGCTAGACCACTTCCATAGGC	1071
638	GATAGATGGTGGCAAGAGTAGCA	616
313	TCGATACAGTGAGGCATGATTG	292
575	TCGATACAGTGAGGCATGATTG	554
282	GGAATCACCGCATGGATCAG	263
1513	TTCCAGCATCCAAGTACCTCTT	1492
1537	TTCCAGCATCCAAGTACCTCTT	1516
1823	AATGTGGCAGCAGTAGTGGAA	1803
1725	AATGTGGCAGCAGTAGTGGAA	1705
1829	AATGTGGCAGCAGTAGTGGAA	1809
1731	AATGTGGCAGCAGTAGTGGAA	1711
1040	TGTCGTAGACTTCCTCATAGTGCTG	1016

139	AGTGTGGCAGAGAGTGGTGTGT	118
163	GGCAGAGAGTGGTGTGTCAAGT	142
1131	TGTCGTAGACTTCCTCATAGTGCTG	1107
1050	TGTCGTAGACTTCCTCATAGTGCTG	1026
191	GTGGCAGAGAGTGGTGTGTCAAGT	169
407	ATCAGAGAGTGTGCGTCCATC	387
585	ATCAGAGAGTGTGCGTCCATC	565
407	ATCAGAGAGTGTGCGTCCATC	387
585	ATCAGAGAGTGTGCGTCCATC	565
1376	TTACATCTTCTGGAACATCGTCTG	1353
1741	CGAGTGGAGTTGAGTTGGACA	1721
1425	CGAGTGGAGTTGAGTTGGACA	1405
1240	CGAGTGGAGTTGAGTTGGACA	1220
1423	CGAGTGGAGTTGAGTTGGACA	1403
1723	TCTCTATCGTCGTTGCTTCTCTC	1700
534	AGACGTTCTAGCTCTTGTTGGC	513
852	TCTCTATCGTCGTTGCTTCTCTC	829
857	CATCGTCTTCATCTCTTGGTTCC	835
588	TTCTTCTTCTGTTCCGTCATCC	567
321	TTCTTCTTCTGTTCCGTCATCC	300
1141	TGATTCCTTCTACTTCTTCCAGCA	1118
1141	TGATTCCTTCTACTTCTTCCAGCA	1118
1120	TGATTCCTTCTACTTCTTCCAGCA	1097
1141	TGATTCCTTCTACTTCTTCCAGCA	1118
1141	TGATTCCTTCTACTTCTTCCAGCA	1118
1197	GCCAACTTCTGTCATGCCAT	1178
783	CGTCTACACTGTCTGTTGAATATCTTGA	756
128	TCTCCAAGTGTGCGTGTGTG	109
445	TCGTCGCTGCTACTGCTTCG	426
941	AGGCATTTCGTCGAGAACATC	922
175	TCGTCGCTGCTACTGCTTCG	156
951	AGGCATTTCGTCGAGAACATC	932
949	AGGCATTTCGTCGAGAACATC	930
542	TTCTTCTGTTGGATATTCATCGG	520
335	CTCGGCTCTCTTGGTAGTTGAC	314
1850	TCAATAAGTGGAGTGTAGCGATTG	1827
427	TCCGTATTAGCTGTTCCGTCA	407
139	ATGTCTTCATCTCGGCACGT	120
229	AATAGCACATCATCAGCCAATG	208
247	AATAGCACATCATCAGCCAATG	226
961	ATCGGAAGTTGCTGGTGTCTC	941
240	ACATAATTCGGCAAGATTCTCATC	217
240	ACATAATTCGGCAAGATTCTCATC	217
3592	GAGACGTTGCTTCTTCTCTTGC	3571

794	CCGTTGGTTATTGGCTCCGA	775
1320	TTGTAGGTAGAGGTGTTGTTGGAA	1297
375	CGACTGGTAGAACTTCTCCTACGG	352
762	TCAAGTCGGTGAGGTAAGCAG	742
310	GTTCCGAATGTGTGTGTGCTG	290
390	ATCATCGGTGTGTGCTCGTC	371
2454	ACGAGACACGGACACAACAGT	2434
2203	ACGAGACACGGACACAACAGT	2183
339	GCGATATATGAACTGGATGCAA	318
1009	TTGCGATGTCGGAACGAACT	990
374	GAATATCCTCGGCTCAGCGT	355
1013	ACACCGTTCCATGAGAGACC	994
857	GGTTGTGTCATAGTATTCGGATTG	834
218	GGAATCGAGGAGTGGCAGTA	199
959	AACAGATCCTCGTTATTCCGAAT	937
754	CAACGTTCCGTCCATCAATG	735
186	GTTGATGAATTCTCGTTGAGAGC	164
1097	AAGCACTGACCACGACCACAA	1077
119	TTGCCACAGACTGAACATTCTG	98
1395	ATTAGTGGCGCCATCGACAT	1376
119	TTGCCACAGACTGAACATTCTG	98
804	CCTGTTACATACACTCCAAGAACGGTA	778
532	GTGGAGTCGCAAGAACCGTT	513
1049	GTGGAGTCGCAAGAACCGTT	1030
453	CGAGCACGGACATTCAC TTC	434
970	CGAGCACGGACATTCAC TTC	951
147	CGAAGAAGACGGAAGACGAAGA	126
1100	ACAAGAATGGCAAGGTGACG	1081
1100	ACAAGAATGGCAAGGTGACG	1081
7652	GAGGATGAACAGAGAAGAATTGAGA	7628
496	GAGGATGAACAGAGAAGAATTGAGA	472
148	TGGACATCGTCTTGACATACAGA	127
152	AGAGCACATGGCGGTCAGAG	133
1703	CCGAAGTTGATGAGGTTGGC	1684
169	CAACAATGACAACAATGATCGGTT	146
124	CATAAGCGTCAATTGCATGGC	104
190	GTTGCTCCGATGCTCACTGT	171
799	TCATAGTGGTTGGAGCATACAGTTG	775
185	GTTATCAGAGAGGTACACGTGGATT	161
557	GCTCCGTGGATATTACGATGA	537
154	CCGTCCGTCTCAGTTACTATCC	133
3353	CGAAGTCGCTTATCTCGTTCA	3333
967	GCAGTAACCACAATCATACAACACG	943
967	GCAGTAACCACAATCATACAACACG	943

1045	CAATAGCCACGGTGACCACTC	1025
113	GCGTATGATCTTCCGATTCCA	93
289	CGGCACAATCACTTCCACCA	270
263	CATATTACTGTTTCATCAGGTGAACG	239
249	CGTTGTTGTGAAGGAATGCC	230
177	TGTTGATAATTCGATTGGCAAG	156
125	ATGCTCAAGTCGGCATCCTT	106
123	GGAGAGCACACTAACAGTCGCT	102
122	AGCTTGAACGACAATTCTTCC	101
543	CCGACCTTATCTCCTTCCTTG	523
189	GCTGACACAAGATTATCCGATGA	167
182	GCTGACACAAGATTATCCGATGA	160
1901	CGCCGTGTTGTTTCAGAGACG	1882
1915	CGCCGTGTTGTTTCAGAGACG	1896
137	ACCACACGTAACCTCGCCAAT	118
129	GCGGTCATCAAGTCATTAGAGG	108
110	CGAAGGAAGTGAGGTGGAAG	91
104	TGATGATGAGGCTGTGTCTGA	84
596	TTGCCATGCTGATCTTCGTT	577
482	AACTTCTTCTGAATAACAGCTTGAAGG	456
343	GCGACGACTGGTCCAGAGCT	324
303	GCGACGACTGGTCCAGAGCT	284
300	GCGACGACTGGTCCAGAGCT	281
848	GGTGGAGTGGATGAAGAAGAAG	827
854	GGTGGAGTGGATGAAGAAGAAG	833
931	CGTAGATCAGAGGCGAGTGC	912
120	CATCAACCGAGGCAGACAGT	101
648	GACATTGGCGGAGTTCAGTT	629
648	GACATTGGCGGAGTTCAGTT	629
126	ATCCGCGAGCACACTGTCAA	107
373	GCTCCATCTTCAACATCCGT	354
630	AACTTCTGGCTCCGCAACTC	611
282	AACTTCTGGCTCCGCAACTC	263
556	AACTTCTGGCTCCGCAACTC	537
234	CTCGTGCCAATGCTTGTCTT	215
544	GACACAATATGTCAGATCGACAAGT	520
373	GCTCCATCTTCAACATCCGT	354
697	ACAGAGCTGCTTGAGAGATTGAC	675
1713	GCGGTGATGATACGAAGAGTG	1693
1826	GCGGTGATGATACGAAGAGTG	1806
2020	GCGGTGATGATACGAAGAGTG	2000
1660	GCGGTGATGATACGAAGAGTG	1640
1701	GCGGTGATGATACGAAGAGTG	1681
2735	GCGGTGATGATACGAAGAGTG	2715

428	CCATCAACCTCAACCGTCTCG	408
428	CCATCAACCTCAACCGTCTCG	408
350	CCATCAACCTCAACCGTCTCG	330
345	CCATCAACCTCAACCGTCTCG	325
381	CCATCAACCTCAACCGTCTCG	361
350	CCATCAACCTCAACCGTCTCG	330
303	CCATCAACCTCAACCGTCTCG	283
152	CGGTCTTCTTCAGCTTGCTT	133
150	GGCAAGTAGACGGTCTTGAAGT	129
233	TTGAACAGCCATTCAAGGATACTC	211
536	TCCAGTACAACCATCCATCCTT	515
195	TCTTCTCATCCTTAACAGGTTTCG	173
189	ATACAGACACCAACTCCACACG	168
124	TGTTCAAGTCTCTACGGATCAGCA	101
345	AGATTCTTCTTCAAGTTCTGTCCAC	321
134	GCTCCTTCACCAACACCATT	115
138	AAGAAGTAGCAGAAGCTAGAGAGGAT	113
506	TGTCTTGATTCAAGTTGTGCTC	485
526	TGTCTTGATTCAAGTTGTGCTC	505
138	TGCTGATGGATAGATGATGTTGG	116
143	TTCATCCTATATACCTCCTTCCATCT	118
581	CGAGTGGTGGCATATCATCA	562
124	GGCTAATTACCTACATGTGCTGTG	101
141	TGTGCGTCTTGTTGTACTCCA	121
685	GGACGAGATGTTGCCTATGG	666
685	GGACGAGATGTTGCCTATGG	666
1185	GGACGAGATGTTGCCTATGG	1166
1459	CTACCGACCATACGCATTC	1440
1045	ATCAGCAACTCCATCTCTTCCTT	1023
1513	CTACCGACCATACGCATTC	1494
480	CTACCGACCATACGCATTC	461
375	CTACCGACCATACGCATTC	356
493	CGCCTTCAACTACTGTATCTCCA	471
1113	ATCAGCAACTCCATCTCTTCCTT	1091
744	CTACCGACCATACGCATTC	725
747	CTACCGACCATACGCATTC	728
678	CTACCGACCATACGCATTC	659
1581	CTACCGACCATACGCATTC	1562
517	CACCATCTACAACAGCACCACT	495
208	CATCAACTACGGCTCCACCA	189
88	CGCCTTCAACTACTGTATCTCCA	66
394	CGCCTTCAACTACTGTATCTCCA	372
120	TCCATCAACAATAGCTTCTCCA	99
120	TCCATCAACAATAGCTTCTCCA	99

1269	TCCATCAACAACGGCTCCAC	1250
1486	TGACGATGATGCTGACGATG	1467
240	CCTCGCCTTCTTCTGAACGT	221
237	GGCAACATCCAATGAACAGTT	217
167	CTCCAATCAATCCACAACGC	148
631	CAGTAGGCGATGATATTGGATAGG	608
1157	GATGTACGAGAAGAGTTCCAGAGTT	1133
1227	GATGTACGAGAAGAGTTCCAGAGTT	1203
469	GGTATTCGCGTCGAGAGGTG	450
324	TCATTGCTGAGTTGCTCCATT	304
193	TCATTGCTGAGTTGCTCCATT	173
137	GCGGTTCAGTATGCCTTCTCA	117
120	AATGAGGTCGCGACCTGGTA	101
120	AAGCTCCAACATCTGCTCCA	101
125	TGTCTCGTGCAGATACTATGAGA	101
130	AGTTGCGTGCTCTCGAAGTG	111
136	CCGAATTGTCGTTGAATGCG	117
142	CTAGCTGGTCATCGCTTCGC	123
133	TACCACCACCACCACGATGT	114
704	GTATTCTCCATGTCGTTCAATG	680
122	GAGATTGGCGAGCTCATGGC	103
139	CACGTCTAGAAGCAGCTCGATT	118
148	GAGGTACAGATGCGGTGCTAG	128
235	TGAGCTCGCCAATCTCCTTG	216
222	TGCATTACAATCGGATCTTCAC	201
123	AGCATATCCAGATGATGAAGCA	102
620	GGCAACTTCATCCACATCAGA	600
504	TTCTAGGTTGTTGGCATCGGT	484
566	TGTTTCATCATTCTCGGTATCGG	545
225	TGGACCGTAGTCCGACGATC	206
117	GATCGGCATGTGACGAGCAT	98
634	CGTAGCGATAATAACGCCAGTG	613
340	TCAGGTCGTTGCGATTGTAGA	320
659	TGTCGGTGTGATTGGATTGTG	639
423	TACCAGGAATACCAGGCTTACC	402
1131	GGATAGTGCCGAGAAGAAGACA	1110
822	GCTTGATCAGATATTGAAGACTCG	799
908	TCCAATGTGACCTGCTCCTC	889
406	CACGATCATCCATACGAGTGTT	385
296	CACGATCATCCATACGAGTGTT	275
254	CACGATCATCCATACGAGTGTT	233
4859	CAACCAGTTGACGCAACTTGTAC	4837
618	GCGTTCTCGTGGCTCATCTG	599
581	GGAACAGAATCATATCCAGTCAATG	557

775	CGTATCCACAAGAAGTACGTCTGA	752
327	AGGACCAACGGTAGGACGAA	308
4678	GGAGACGGAGACGATGTAACGA	4657
4425	GGAGACGGAGACGATGTAACGA	4404
348	GGAGACGGAGACGATGTAACGA	327
383	GGCATTCTGTATTCATTGGTT	362
996	AGGTCGGATGGAATCGTCAC	977
94	CTTGCTGGATTGCTTCGGTAA	74
932	AGGTCGGATGGAATCGTCAC	913
956	AGGTCGGATGGAATCGTCAC	937
94	CTTGCTGGATTGCTTCGGTAA	74
154	CTTGCTGGATTGCTTCGGTAA	134
134	TTCAGTACGACGACGACGGA	115
398	GGAAGCTCCAGGTTACCATCA	378
121	CAATCAAGAGAAGGAGGTCTGACT	98
809	CTTGATGCATCAGTGTATGAGAAGA	785
866	TGTGTGGAGTTGCATAATACGG	845
212	TCAATGTGAGCCACAGTTGC	193
434	GTGAAGCCTTGTGCCAGTC	415
309	GAGCTCTCCAGTTGCCAAC	290
2089	TGGTGCTTGGAGGTAGATGAGT	2067
2182	TGGTGCTTGGAGGTAGATGAGT	2160
2179	TGGTGCTTGGAGGTAGATGAGT	2157
2176	TGGTGCTTGGAGGTAGATGAGT	2154
2149	TGGTGCTTGGAGGTAGATGAGT	2127
321	TGCCATTGTTGAGAGTTAGTGTTG	298
1072	GTTGGATGATGGACGACGGT	1053
618	CGGTTGAATGGTGTGCTGA	599
373	TGGTTGGTGACGAGTAGAAGG	353
143	TAGTCCATCCACTGGCGGAA	124
1738	ATCTCGTCGCACTTGTCTC	1719
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195	ACAGCCAACTGAGTGAGCAAT	175
342	TCGTAGAATGTTGCGGTGAGC	322
649	CGTTGGCGGTAACAACAGAG	630
678	CCTCATATTGAAGCACTTGAATACTCG	652
293	TTACCGCATCCACTGACACC	274
322	CGAAGAGAGAATAGGCGATGG	302
322	CGAAGAGAGAATAGGCGATGG	302
382	TTACCGCATCCACTGACACC	363
628	GCCGACTCATTGAGTGCATT	609
186	GCAGAGGAGACAAGTGATAACAATG	162
123	CACTACCGGAAGGACGACGAT	103
143	GTCTTCAAGTGGTCGTTGTCG	123

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564 TGGAGCATTACTAAGATACATCATACAG	537
517 GGTGTCCAGCAATAAGCAAGG	497
147 CGTGTCTTGTACCAACATTTCGC	126
601 TGTTGTCAGATGTTCCGTTCA	581
131 TGTGCTCCGTCTGAGCTTCA	112
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2421 GGATGGATGGAGAAGGAGGA	2402
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104 GGATTGTTCACATCGGCGTT	85
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332 CCGTTCAGCGAGATATAAGAGC	311
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392 ACGATGGTGGCACAGTTGAG	373
683 GCACCACTCGGAGCACACTC	664
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302 CGATTGATGCCAGTGAGAGATTG	280
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139	TTGTATCGCTTCCTCCTGTCA	119
193	CAACACCATCCAACATTCGC	174
815	TGCATGATAGAAGTTGTTGAGATGA	791
767	TGCATGATAGAAGTTGTTGAGATGA	743
304	TCACCAGTTGATGAAGAAGGC	284
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165	CTTGTTGGTGACGTGGAATGG	145
382	CGAACGAATCAATGTCTGCTT	362
382	CGAACGAATCAATGTCTGCTT	362
253	GGTCCAGTGC GGATCTCAT	234
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241	TTGGCTTCTGCTTGGTGGA	222
327	TTGGCTTCTGCTTGGTGGA	308
357	TTGGCTTCTGCTTGGTGGA	338
130	CCATTGTTGAAGGCTCTGTCG	110
123	TTGAAGCTTGAAGATGCGACAG	102
127	CGTGCCACATAGAATGTCTGC	107
120	GTGCCGTCTTCTTCCATTCC	101
234	GGCATCGGTCTCTCCAGTTG	215
234	GGCATCGGTCTCTCCAGTTG	215
161	GCAATAATCCTGTAGAAGCAATGG	138
439	GACACCACATTGTCGATCGTGT	418
512	GACACCACATTGTCGATCGTGT	491
2252	CTCAATTGCTTCATATCTTGTGG	2229
177	CGAACGAATGATGAGAAGCC	158
173	CCATATGGATACTGCCTTCTTACTCTT	147
290	TGGTAGCCAGTATAGCCAGCAT	269
659	TTGATACCGTTCCATAGAAGTTGA	636
1033	TTGATACCGTTCCATAGAAGTTGA	1010
5405	CATCGTTGCTATCGTCGGAA	5386
166	CATCAATGGATCTCCTTCTGCA	145
289	CATCAATGGATCTCCTTCTGCA	268
112	CGGCAACACTAGAACATGCTT	92
83	CGGCAACACTAGAACATGCTT	63
112	CCAGATTCTTCATGTACTGTTGACG	88
106	GGCCAAGTGCGAAGTCGTAT	87
522	TCTAGTTGCTGGTCGCTCCTC	502
128	TCATCTCTTGCCTGGTCGGA	109
126	GTCTCTTGCCTGGTCGGACA	107
417	AATCTTCCATCCTTCTCCGA	397
1564	ACACCAGAAGCCAGCCGATT	1545
176	ATCCGTTACAATCGTCTGAGAAC	154
386	CGTAATCCTCAACTGTCACATAGTCG	361

398	CGTAATCCTCAACTGTCACATAGTCG	373
386	CGTAATCCTCAACTGTCACATAGTCG	361
398	CGTAATCCTCAACTGTCACATAGTCG	373
101	TGGCAGTTATGAGACGATTGAG	80
777	TGAGCTCCGAATATTGAGGTTG	756
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305	GTGTATCCATCGGCATCTCG	286
910	TGAGCTCCGAATATTGAGGTTG	889
167	GAGCCATCACAGCATCCACT	148
144	AGACAGTGGCGAGAGAGTATGC	123
258	AGGCGGTGACAGAGACAATG	239
578	CCGACTAATAGTTGGATGATGACG	555
1254	CACCAGAAGACACACGAGACG	1234
658	CACCAGAAGACACACGAGACG	638
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572	TAGATGTTGATGGAGGTGATGC	551
625	TGGCATTGGTAGGAGTGGAT	606
1655	TCCATTCTGTGTGTTCTTCTTACG	1632
529	CTTGAATGTGTGATGGAATAGCA	507
279	CAATCGCATCTTATCGGCTT	260
251	CAATCGCATCTTATCGGCTT	232
183	CGACTTCGTCCAAGAGGTGA	164
139	TGCGTCTCTCAATTATTGAATCTC	116
1867	GATTGATGAGAAGAGCCGTGTT	1846
445	GACTGTCGGAGCCAACAACA	426
369	GACTGTCGGAGCCAACAACA	350
1116	AGAGTGTGTTGGATGCAGAGA	1095
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375	TGGAGAGCATTACCGAGGA	356
2169	CATTATATGATCAATTGCTGATGGTT	2144
132	CATGAGCACACAGGCGATT	113
765	TGTGTTGCTGTATGACAGAGACAT	742
1368	TGGAAGTGAAGATGGAAGTGG	1348
1371	TGGAAGTGAAGATGGAAGTGG	1351
330	CTGTACGCTGAACATGACCATC	309
271	GCACCATAAGCACATTCCGA	252
556	AATACGGAGCGGCATACAAG	537
1125	TCACTGAACCAAGTAGGCTCGTC	1104
187	TGACTGTTGCTCGTGGCGTT	168
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378 TCCAGCCTCATCTGCTGCTT	359
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159 GGCAAGAAGCAGAAGGAGCT	140
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194 CAAGTTGAGCACAGGTGTCTG	175
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426 AGACGTCCGTTCTCAGCCAA	407
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237	GTGACATTCCGCTGGCTGAT	218
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1012	ATCCGTCAGTTCATCGTCCA	993
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200	CAGGATTCCGAGGATGAAGA	181
196	TCAATCTCGTATATTGTCACGTTGC	172
1616	TGTCCTCGTTCCTTGTGCCA	1597
241	TGGCTTCAAGTGTGGAAGG	222
1826	TGTCCTCGTTCCTTGTGCCA	1807
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1352	AGCCTGTTACGGTTGTCTC	1333
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391	CGGTCAGTTGTTGGAGCATC	372
356	ACCGAGTCAGCCGATGAATG	337
140	TCAGCGTAGACACGGATCGG	121
132	AGAGGACTTCGGCTGGATTAGAG	110
948	CAGATACTCGGATTGTGGTTGA	927
167	ACGAGAAGCCTGACTTGGTG	148
150	CACTCGAGCTTGTCGTGTGA	131
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347 GCTTCAGCTTGGTGATAGCG	328
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459 CCTTGAGGATTCCAGTGACG	440
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441 TCTGTCGGATGCTGTAGGTCA	421

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281	GCTCCGTTACATTGCTCCGA	262
284	GCTCCGTTACATGCTCTGAGTT	263
307	GGATGCTGGTGGAACCTCTC	288
494	GCAGCCAATACGAAGAGACG	475
207	TGCGGATAGCAGAGTTAGGC	188
222	TGCGGATAGCAGAGTTAGGC	203
626	GTGGCAACTGCCAAGATAGC	607
2001	AATCGTTGTAGATTCTGCTTCACA	1978
203	CAACGACATCATCCTCCATCC	183
654	GAATCCGACATAGGCTCCAA	635
579	GAATCCGACATAGGCTCCAA	560
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231	CCTTCTCTGCTTCTTCATTCTT	209
258	AAGGCATTTCGGTAATCGGAT	239
123	GGAAGAGCTCTGTTGTTGAAGGA	101
164	CCAAGTGAACGATGACACGA	145
124	TACCTGAGTACGGCAGGCAA	105
3398	ACATGATGCGACGTTGGAAT	3379
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234	ATGTCCTGAACTTCGGAACG	215
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145	AATTGTAGCTACACAGCTTGGAGACC	120
2013	CTGATGGTAATAGTTGTGTGACGAT	1989
2132	GACGTTGCTGGTTGATGACA	2113
2241	CTGATGGTAATAGTTGTGTGACGAT	2217
332	GCCAAGCTAGTCGGTAAGTTGT	311
161	CAAGTTACGCAATCATTCGCA	141
890	GTTGCTGGAACCTCATCGGA	871
197	TGTGTGAGCAGTGATTGACGA	177

1306	ATGGCGAGTTCTTGATGTGG	1287
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416	TATTCACATCGACAGAGGCATC	395
415	TATTCACATCGACAGAGGCATC	394
363	CCAGTGCTCTCTGAGGTTGC	344
144	TGGAGTTGATCGGATCGTCTT	124
345	CGTACACAGAGCTCGTTGCA	326
174	TTGATGAGAATGGTCGCATT	154
473	AGCTTCAACGTCCATTCCAC	454
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486	AGCTTCAACGTCCATTCCAC	467
1029	TCGTCCGTATTCTCGTTGTTG	1009
136	GGAATACCGTAGAATTGGAAGAGC	113
198	AATGATGAGCCACAAGACGAGAA	176
263	AATCGGTTCAATGTGCTCTCC	243
762	CACTGCGGAGATAAGAAGCC	743
120	AACGCCGCTTACGGTACAGA	101
124	CGTTGCTTGAGGCAGGTTGT	105
1314	GCGTTGGAGCAGTAGTGGCA	1295
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200	GCTATTGAGCGTCTCGAGGA	181
327	GCTTGATACTGGTTCTGCTGGT	306
316	GCACCTTCTTGATTGATCCG	297
2254	CTTCTTCCGATGCGATGACA	2235
2255	CTTCTTCCGATGCGATGACA	2236
2267	CTTCTTCCGATGCGATGACA	2248
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214	GAGGATGACTCTATGATTCGTTGA	191
179	GAGGATGACTCTATGATTCGTTGA	156
186	CAGACTTGTTGTAATACCTTCGGT	162
768	CAGATGTGATATTGTGCTTGGA	746
768	CAGATGTGATATTGTGCTTGGA	746
207	CGAAGAATCTTCACGTCTTGATCT	184
719	GTTTCGTTTCGTACATTCCAGGA	699
976	GGCGGTCACGAATCAGAGTG	957
611	ATTGGTATTCGTGGCTCATTG	591
163	CACAGAAGTCAATGATAAGACAGCA	139
1403	CCATCATCATTGATACGTCCAC	1382
283	GGAACGCAATAATGAACTGATGA	261
873	CGCTGACATCTCAACTGCTG	854
126	TGGAGTAAGGCATTGAATAACGA	104
710	GCAATATCTTCTGGTACTGCACAA	687
616	GATGACGTAAGATGCTGCGA	597

95	GAATCTTCTGCAGGCGGTTCT	75
1112	TGAGCATAGGATAATTCCTTAATCCG	1087
759	GATTCTCTCGTCAATGTCGGA	739
470	TGCATGTAGCACTGTACACCAG	449
632	CCGTGATGTTCAAGTGTAGAGTATG	608
159	GATGCTAATGTATAGAGGATCATGGTT	133
401	CACAGGTAGTGTTGAGTGTCATTCG	377
461	TTGCCGTTACGTTGATTCTG	442
111	CTTCTTCGCTGCCTTCGTCT	92
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571	GCTGGCGGTGTGGTTATGTC	552
143	CGACGCAGATGAGTCCGTAA	124
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375	CTCTTCGGATTGTGCTGCTT	356
921	ATGCTTCTCGTTCGGACTGT	902
999	ATGCTTCTCGTTCGGACTGT	980
348	GTTGCCATTGTCGTCCTCTC	329
229	CCGCATAGTGGAAGAGATCG	210
387	GTTGCCATTGTCGTCCTCTC	368
482	TTCAGATGATGGTAGAAGCGAA	461
342	GATTGAGATTGACGGCTTCCA	322
213	CGAACTAGAATTGAAGCTGCGA	192
841	AGTCTTCGTACCTCGTCCTT	821
1324	AGTCTTCGTACCTCGTCCTT	1304
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160	GTGGTCCTGGTTCTCCAACG	141
240	GGCTGATTATTGAACGCTGGT	220
240	GGCTGATTATTGAACGCTGGT	220
2179	CGGATGGTGAGATGTATTGGA	2159
2185	CGGATGGTGAGATGTATTGGA	2165
2104	TTCGGAGCATCGGAGCATCT	2085
1685	CAGATGGTAGTGGATCAATGACTC	1662
866	GGAATATCTGATGGAAGAATCGC	844
241	CGATGGTCTTCTCTTCCTCAG	220
1482	CGGTGAACTGCATCGTACTG	1463
1479	CGGTGAACTGCATCGTACTG	1460
179	CCTTCATTCTGGTGTATGGATCG	157
903	TGGCTCGTCATGTAACCACA	884
893	TGGCTCGTCATGTAACCACA	874
102	GACTTCTGGTGAGTGGCTTCC	82
398	GACTTCTGGTGAGTGGCTTCC	378

102	GA	CTTCTGGT	GAGTGGCTTCC	82
398	GA	CTTCTGGT	GAGTGGCTTCC	378
102	GA	CTTCTGGT	GAGTGGCTTCC	82
1541	CC	TACTGGTCCG	TGATGTCC	1522
1568	CC	TACTGGTCCG	TGATGTCC	1549
1505	CC	TACTGGTCCG	TGATGTCC	1486
1469	CC	TACTGGTCCG	TGATGTCC	1450
1541	CC	TACTGGTCCG	TGATGTCC	1522
259	TGA	ATGGAATCCG	TTCTCATCT	237
321	CA	TATCTTCTCCG	ACTCCTACAG	296
380	GC	AGGACAAGTATCG	TTAGTCTCAT	356
3275	TC	CTTGCCACC	ATCCAGAAG	3256
12393	CAC	CGTTGTTACCG	AAGGCT	12374
3450	TT	CTTGGAGGTG	CTGTGCGA	3431
237	CAG	AGGAGAAGA	ATAGATTGCGA	215
129	TCT	CGCTCTTCTT	CTCCTTC	109
146	CT	CTTGTTGGCTT	GGCTGAA	127
259	CG	CCTTCTATCG	TTTCGGTT	240
125	TGT	TGTTCAATCAT	GACGAA	105
1012	AAT	GATCTCACC	ACTTGAGCAAT	990
746	CA	CTGTAACCA	ATGTTGATATAGAACCA	719
2024	AG	TCATATCCAGA	ATCTATCATTGACG	1997
471	GCA	AGTAATGGA	ATGCTATCAGG	449
143	TC	GCATTCTCTT	CATCTTCCA	122
166	GAT	CATAGCTGCC	GTATGTGC	146
1049	TC	GTCCACTGTT	CATTCTTG	1029
1049	TC	GTCCACTGTT	CATTCTTG	1029
342	AAG	TAGGTTCA	TCAATAGTGGAGGA	318
122	AC	AGGCACATAC	ATGCGT	103
131	AT	CACGCTAGG	ACAGTCGCA	112
1038	CCT	CGGACTTGA	ACTTCTTGACTT	1015
511	GT	GATGCGAAT	GATGCGAAG	492
511	GT	GATGCGAAT	GATGCGAAG	492
511	GT	GATGCGAAT	GATGCGAAG	492
511	GT	GATGCGAAT	GATGCGAAG	492
511	GT	GATGCGAAT	GATGCGAAG	492
465	GT	GATGCGAAT	GATGCGAAG	446
465	GT	GATGCGAAT	GATGCGAAG	446
458	GT	GATGCGAAT	GATGCGAAG	439
468	GT	GATGCGAAT	GATGCGAAG	449
442	GT	GATGCGAAT	GATGCGAAG	423
512	GT	GATGCGAAT	GATGCGAAG	493
456	GT	GATGCGAAT	GATGCGAAG	437
2233	TG	ATTATCCTTGG	TCTTGTGTGG	2211

511	GTGATGCGAATGATGCGAAG	492
1121	TTGCAATGCTGATGGAGTGG	1102
143	GCGTTGCATGAGCTGTTGAG	124
129	ATACGAACCACCACCACCAC	110
80	TGGACTGTAGATGCCGAAGT	60
194	AACTACAGTAGGATAACGAATCACAGG	168
246	AAGTGATGAGCTCGTTGTCGTT	225
310	CCTCTTATCATCATCGTCATCCTC	287
505	CCTCTTATCATCATCGTCATCCTC	482
199	CAGCAACTTCAGACGGCATC	180
141	CCTGGATCAACGTACACATTCTCT	118
721	CCTCGATGAGTTGAGCCAGA	702
165	GGCGAACAAGTCAAGACAGG	146
3222	AAGACCGACGACGTGTGAATC	3202
126	TTGAGCATCATTCCAGTTGTCT	105
499	GCAGTCATATCCTTCACGTTCTCG	476
138	TTGGAACTTCTAATTCTCCTGTGC	115
209	CCATTGATTGTGATAGGATTGCT	187
161	TGCAATTGGTTGTAATATATCGTACG	136
556	TTCTTCTTCCGATCTTCGCTAA	535
975	TCAAGACCAAGAAGGCATCC	956
1009	TCAAGACCAAGAAGGCATCC	990
332	GACTCCACATCTCCGTCGATT	312
701	TGAACAGCCTCAGACGCCAA	682
701	TGAACAGCCTCAGACGCCAA	682
799	TGAACAGCCTCAGACGCCAA	780
843	TGAACAGCCTCAGACGCCAA	824
1718	AAGATTGTTGCGGTGAAGTTG	1698
1459	AGAAGAGGCAGGAGACGGAA	1440
202	TCACAACTCGAACTGTCCGTT	182
329	AATTCAGCCAATACACAGTCAGTTG	305
734	CTTAGAATACTGAATCCACCGCAA	711
135	GCACATAGTTGTAGACGATTGGAA	112
179	CGGAGAGGAATGAGGAGAGG	160
364	CGGAGAGGAATGAGGAGAGG	345
622	CGCAATCAACAGACGACACTC	602
229	CGATAAGTGCCTTGGAGAACG	209
738	ATGAGGATGGTGGCGAGGAC	719
122	TGTGTGTTGATGAAGATGGTGTC	100
632	AAGGTGACATTAGTGTAGGTTCCATT	607
1790	TTGATGCTCTGCGAGTGGA	1771
1004	TGTAGCCACTGCCAACGAAT	985
180	CGTTGTGCGGATTCTTGATTG	160
258	TTGAGGAGGTGGTGACAGGT	239

258	TTGAGGAGGTGGTGACAGGT	239
1742	AATACACCACCATCACGAGAGAA	1720
182	TTCTCGCTATCCATCAAGTTCATT	158
1939	AATACACCACCATCACGAGAGAA	1917
356	AACGCAGTAACAATCGCCAT	337
426	AGTAAGCACGAGGCGAGGAA	407
427	AGTAAGCACGAGGCGAGGAA	408
578	CAGGACGAATGGAACAAGTGC	558
184	CCACCGTAACGCTTCACTCG	165
4972	CCTCACACTTCTTCATTATTCTCTCTCC	4945
219	CCATACCAGCATCACAGTGTTG	198
471	TGCTTCTGATTGTTCTGGCA	452
247	GGATCCATCGGTATATCAATTCC	225
471	TGCTTCTGATTGTTCTGGCA	452
762	TGCTGTTATCACCATCATTCTCA	740
576	GGTTGAGCAGACACCTCCAT	557
314	GTGTCGGATGGAGCACGATG	295
2453	TGCCGTATTCCGAGTCAAGA	2434
2415	TGCCGTATTCCGAGTCAAGA	2396
2415	TGCCGTATTCCGAGTCAAGA	2396
2640	TGCCGTATTCCGAGTCAAGA	2621
2445	TGCCGTATTCCGAGTCAAGA	2426
2469	TGCCGTATTCCGAGTCAAGA	2450
895	GCGTGTTGCCATCTTCATCA	876
826	GCGTGTTGCCATCTTCATCA	807
3502	CGCTTCCTCTCCTTGACCAG	3483
895	GCGTGTTGCCATCTTCATCA	876
895	GCGTGTTGCCATCTTCATCA	876
375	GTTCACTCAACTTCAGCGGCAA	355
181	TTGAACTTCTTCGTCGCCTT	162
133	CTCTCCTCAACATCCAAGTCAAG	109
1023	GAGGCGTAGGCGGAAGTGAC	1004
201	TGTTAATACGAGGCGTTGGTT	181
247	GCTCCTCGTCGTTGTACTCTCTC	225
306	ACATCCATTCCAATCAGACCTT	285
129	AGAACCTACTTCAAGTACTGTGAGCTGA	102
120	CCAGTTGGTGCTATGCGTTC	101
128	CCGGACACCATTAGGACTGA	109
128	CCGGACACCATTAGGACTGA	109
126	GACAACGAGATTACGTCAATGTGAA	102
246	TGACTCGGTGGAACCTTGCTT	227
273	ATTGCGTAACCTGCCGACTC	254
273	ATTGCGTAACCTGCCGACTC	254
6457	ATCGGAGAATGTGATGAGTGG	6437

647	AGACGAACTCCAAGGCAGAA	628
470	GCGGACGATGCTTCAATCAG	451
704	ATTCCACTCGTCGGCTCCAC	685
395	ATTCCACTCGTCGGCTCCAC	376
1443	CCGCTGACTCCACCAAGTGA	1424
1443	CCGCTGACTCCACCAAGTGA	1424
364	CGGTACTTGTTGCTATCGC	345
657	GAGATTGTCAGCAGCAGTGGA	637
1356	GACATACGGCATACTCTCCTGAAG	1333
262	CATTGTGGCAACACCGAGAT	243
380	CTCCAGACACACCAGGCTCAT	360
178	CCTTCTTGCGAGTTAGATTGGA	157
178	CCTTCTTGCGAGTTAGATTGGA	157
863	CGAGACCACCTCCACTATCTCC	842
251	CGACGGTTGGAGGCTGTTCT	232
166	ATGAGTTGCGGCGAAGAGAT	147
194	AGTCCGGCAATGCGATACTG	175
790	TTCTGGTGGTATTGGAGGCA	771
207	AATCAGTAGGCAGGCAATGG	188
220	AATCAGTAGGCAGGCAATGG	201
2362	GGATGAGTTGCTTGAGATACGG	2341
2328	GGAATACTCGTCTCTATCTGTTGCTT	2303
1388	AGCCAACGACTACAGCCACT	1369
1368	TGAGAGTCACGGACATTGGTAA	1347
1312	CGACCATAGTTCCGAGAGAGTT	1291
1768	CGGTGGTAGATGGTGACGAG	1749
150	ACGGCCAATATGTCACCAAC	131
133	TTACAAGCCGTCGTTCACTCT	113
785	GCATACATACTGGCTTCCTCTTG	763
135	TTCAACTTCCATATTAAGTTCGCTT	111
931	TCAATTAGCAAGGCGTGACC	912
931	TCAATTAGCAAGGCGTGACC	912
1594	CGTGAAGAACAGTGAATGAGCA	1573
778	GAAGAACCACGGAGATAGCAAT	757
612	CCTGATGACAGTCTAGTGTGTGGATC	587
1230	CAGCATCTCCAGACTTGAGGAAC	1208
1241	CAGCATCTCCAGACTTGAGGAAC	1219
185	CAGTAGGATGGATGTATCTATATGGC	160
132	ACGTTCTCGCCGATCTGTC	113
133	TGCCTTCATCTTCTCCTCCTT	113
229	TTATTCATTCAACCATCCAACGA	207
915	GGACGTACCGAAGTGAGAAGC	895
915	GGACGTACCGAAGTGAGAAGC	895
397	GTAGTTGCTGATCACTGAACACTGT	373

349	GAGCCTGAAGTCCGTAGAGAGC	328
857	GTCTTCTCACGGTTCGCCAA	838
140	CGCTCACTCTGTGTCTCTGTG	118
268	GCTTCGTCTCCGCTTCCAAT	249
867	CTGCTCTGAGCTCCATCCAA	848
631	CCGATTGTTGAACTGGAGAAG	611
194	CGTAGTTGATTGTGTCGGCTT	174
306	AATACAGTGTGCGCGGAAGAGTT	284
946	ATAGCCTAGCCACCAGCCAA	927
244	CAGTGACCATTCTCCTTCG	225
315	TGGCAATACACTGGCACACC	296
859	GGAGTACAATGAGATACAGGACAACC	834
252	TTCAATAACAGCGGCTTCCAA	232
858	AGCCAATGCAACATTACAGATG	837
924	TGAGTAGAGTAGATCATCCAGTGCTG	899
337	CTGCCATGATGGAAGTCGCT	318
263	TCGTGTAATATAATAGAGGCAAGGC	239
1378	TTGTATGAGCCGCTATACGCA	1358
354	TTGTGCGAACATCATATAGTAACGATT	328
300	CCATATTCTCTGCTTGTTGATCTTGT	275
608	GTGAGTGATAAGATACCGAACCAAC	584
345	TTCGTACACCGCCATGATTG	326
126	TTGGTGTGATCGTGCGCATT	107
138	CTTGATCAATCCTGCTTGCAATT	117
115	TCGCTTCCTTAGACGGCAAT	96
315	CTTGATCGTACAGTGTGACATCTG	292
552	GAAGCACACATCCATCTCTGAA	531
1244	TGACACGCAAGCATAGATACAGA	1222
702	AGAAGCAGACACTTAGCATAAGACC	678
600	TGGAATGGATACTCCAGCGA	581
1345	TCCTCGGTGAACTGATGACG	1326
1458	TCCTCGGTGAACTGATGACG	1439
675	GTGAGACAACACTGACACACTCG	653
929	AGAAGCAATAATAATCCAACAGAGTG	904
122	TTCTGAGAGAGCCGACAAGC	103
187	GCACTCGAACGTCTGTGAAGA	167
139	TGCTCTCACTGTCTTCTCTT	117
140	CGGATGGACACTGAGGAGAA	121
279	GGAAGTTGTCTGAGGATCTTAGCC	256
753	ATTCTGTCACTTGCGATGG	734
1331	AATACTCGATTCTCTGCGGATC	1310
998	TTGGAGCAGTGGCTTGAAC	979
349	CTCGCATCTGGTTCGTCTGG	330
449	GTTATTGGAGTCATTGTAGTGTGGT	424

136	GATGATGATGATCTCGTTAGGAACA	112
1935	TGGAGCATTCTTGAGAGTGGTC	1914
1646	TGGAGCATTCTTGAGAGTGGTC	1625
202	TGTCAACCATCCAGTCAGCA	183
202	TGTCAACCATCCAGTCAGCA	183
895	TTCTTGGTAGAAGTTGTACTGGTCAA	870
465	GCGTATTGTCCACCAACATAGAC	443
833	GCGTATTGTCCACCAACATAGAC	811
267	GCGTATTGTCCACCAACATAGAC	245
463	CCGAGGATTGTGCGATTACC	444
425	CCGAGGATTGTGCGATTACC	406
443	CCGAGGATTGTGCGATTACC	424
117	CCATATCCTCCACCATAACCAA	96
635	CACATCTTCGAATAAGCATAGAGC	612
235	TGAAGTGATATGTCTCTTGCTATGTCC	209
392	GTGGCACTGCACAACCGAAC	373
312	CAGTCTCTTCAGCAGCCTCTCTT	290
618	AACACTTGTGATGATTCTCTCTGC	595
618	AACACTTGTGATGATTCTCTCTGC	595
685	AACACTTGTGATGATTCTCTCTGC	662
1578	GAACACGCATCAGCCACTCG	1559
1607	GAACACGCATCAGCCACTCG	1588
118	AATCATCTGTGCCTACTTCCAAC	96
844	TCTCCTTCCGCAGCAATCAC	825
911	TCTCCTTCCGCAGCAATCAC	892
962	TCTCCTTCCGCAGCAATCAC	943
878	TCTCCTTCCGCAGCAATCAC	859
1152	ACTCACGGCTAACACAATACACA	1130
846	ACTCACGGCTAACACAATACACA	824
1424	TTCGCTCAGTGTGCTCGTTA	1405
1756	CACTGCATTTCGGCAAGAGTG	1737
265	TCTTGAACGGCTTCGTGTTG	246
1756	CACTGCATTTCGGCAAGAGTG	1737
1579	CACTGCATTTCGGCAAGAGTG	1560
1109	GTGGATTCTAGGCCAGTGTT	1089
274	TGACAGCAAGAAGTTCAAGTAGAGG	250
382	TGACGAATCCAGAGAACGAGA	362
1129	CCAGATTGATTATTGATTGGTCGTAT	1104
358	ATTGCGTTGGCCATGTGGAT	339
1990	CCGAAGTGCTAATGTTGTTGG	1970
917	CCGAAGTGCTAATGTTGTTGG	897
988	CCGAAGTGCTAATGTTGTTGG	968
1869	CCGAAGTGCTAATGTTGTTGG	1849
912	TGTGTTGGAATGAATAAGTCGGT	890

203	TGTGTTGGAATGAATAAGTCGGT	181
506	TGTGTTGGAATGAATAAGTCGGT	484
525	CTCCGCCATCACTTCGCTTC	506
1886	GAAGAGACGATGAGACACTGGAG	1864
241	AGGCCTCCTCGATCTTCTTG	222
142	GAGACAGACACACCGATGCG	123
145	CTTCAATTCCATCCTTCACTCC	124
234	AAGAGAGGTGGTTGATTGGAGA	213
478	GTCTTGGCATCTTGATTAACG	456
335	TGATAAGAATGCTCAGAGGAGATGG	311
1122	ACGACTGCTCCGACAAGATTC	1102
1122	ACGACTGCTCCGACAAGATTC	1102
149	CACATGCTTGTATGACGTGGAA	128
910	ACGACTGCTCCGACAAGATTC	890
1031	ACGACTGCTCCGACAAGATTC	1011
265	CATTGGTGAAGTGGATCAAGGAT	244
2334	GCACATTAGCATTGGAGCGATT	2313
2334	GCACATTAGCATTGGAGCGATT	2313
237	AAGTCTTCAGTCTCGTAGATTCTATCGT	210
267	TGTAATCATCCAGTCACCAAGC	246
790	AGATGAGGTTGACGGAATACGAC	768
160	TCTCTAACACTGACACACTCTCTCG	136
1910	TTCATTGCTGTCATCACTACGAG	1888
492	CAATATCATGTCGTGTTGCACTATC	468
623	TGATAGCAGCGAACGAGGTC	604
623	TGATAGCAGCGAACGAGGTC	604
246	TTGATCTCCGCTGTAACCTTGC	224
832	CGAGATCGTTGATTCCTTGAAC	811
905	CGAGATCGTTGATTCCTTGAAC	884
1143	CGAGATCGTTGATTCCTTGAAC	1122
234	TGGAATGAGACGAGTGTAGGAA	213
2063	CTCACGAAGAACGGCGAATG	2044
144	CATGGAACAGGATGTTGAGTTCTC	121
1723	CCATTACAGTAACGGCACGAA	1703
197	TTCGAATACTGTTGTGCGATCA	176
211	TTCGAATACTGTTGTGCGATCA	190
722	GAAGGTAGCAGAGCAAGAAGG	700
536	CGAGATCATTCTTCATATCCGTTG	513
864	AGATCCGTGGTGCTTCTTCA	845
252	TGTAAGTCTCTCCGTTGTCG	233
89	GAGTAGAAGGCGTCGGTGGA	70
911	GATTCAGATGAGCCTTCAGAGC	890
269	TCGCTATCGGATTGTTCTTCG	249
414	TCGTTGATAGTCGCAGTCGTGTC	392

482	TCGTTGATAGTCGCAAGTCGTGTC	460
644	ACCGTCCAATAGTTCAGTTCTCC	622
178	GTGACGAGATGATGTATGAACCA	156
169	GGACAACTGCTGGTGGTGGT	150
203	GGACAACTGCTGGTGGTGGT	184
169	GGACAACTGCTGGTGGTGGT	150
203	GGACAACTGCTGGTGGTGGT	184
200	GGACAACTGCTGGTGGTGGT	181
965	GGTACACATACGTCTGTCGTGAA	943
163	GGACAACTGCTGGTGGTGGT	144
240	CACTGGAATTGCTCTGTCATTGC	218
183	GGCTGTTGTGGCTGCGAGTA	164
113	GCAGAGTAGGAGAGATGATTGGC	91
1097	GAAGTGATGATTAGTGTAGTGTTCTCG	1071
283	GACAAGTGCATCCAGGCTCA	264
449	CGATTGCGAAGAACGATTGG	430
317	GCAAGAGATGAAGACAGTGACAGA	294
337	GCAAGAGATGAAGACAGTGACAGA	314
172	GACGAAGAATCCGATGAATCC	152
700	CTGGAGGACGGATTGATGGT	681
700	CTGGAGGACGGATTGATGGT	681
659	TCTTCAATGTCTAACTTGTTGTGCTCA	633
256	TCACTGGAATCTGATCGCATC	236
248	CGTAGCATCTCAGCCAAGGTT	228
284	AACACACGCTCCACGGCATA	265
1836	GA CTCCTCCTTCGCATCCTT	1817
188	CGCCAGAGAAGTGATGAGAGTC	167
305	GCTGACTTCAACACCTCAACTG	284
368	GA CTCCTCCTTCGCATCCTT	349
1460	TGCCAGTCTCATCATCGGAA	1441
683	ATCTGACAACGAGCCAGGTAA	663
560	CCTTCTTCTTGTTAGACTTCTTGACC	535
715	CCTTCTTCTTGTTAGACTTCTTGACC	690
151	TTCCATCACACATCCAGGATT	131
774	TACTCGTCGCCGCTCTCATC	755
192	CCTACGCCGCCTCATTACAG	173
318	CCTACGCCGCCTCATTACAG	299
276	CCTACGCCGCCTCATTACAG	257
345	CCTACGCCGCCTCATTACAG	326
2032	GGTTCAGCCTCATATTCATCAAG	2010
341	GGTTCAGCCTCATATTCATCAAG	319
659	AGCATTCTCGTATTGTCGTATTATAGAC	632
911	GGTTCAGCCTCATATTCATCAAG	889
180	TGATCAGTTATACGAAGAGTTAGTGTCG	153

120	TGCTGACGATTCTGGATTGTTT	99
1622	TCAAGAACAACATCGTAGATGAATG	1598
252	GAGACCGATCAAGTTGATTCCA	231
208	CCACATAATCCATCCAGTGAAGT	186
270	TGTGAATGCCATCATTGCTT	251
333	AAGTGCCAAGTGATAGGAATCG	312
363	AACAATACAGTGACGACGGAACA	341
755	TCAATCACCGAATACGCATCT	735
2645	CCAGATTAGCCAACAACCTCGGT	2624
2645	CCAGATTAGCCAACAACCTCGGT	2624
308	GGAGAACCACTTGATCTTCTACGAA	284
334	GGAGAACCACTTGATCTTCTACGAA	310
308	GGAGAACCACTTGATCTTCTACGAA	284
127	GAGTTCTACATCACCATCAGCATT	104
174	GAGTTCTACATCACCATCAGCATT	151
403	TCACACGGAGACCAGGAGAT	384
208	TTACCAGGTCTTCACCAGCAA	188
371	CCTGGAGTTGCACATTCATCA	351
407	TCCATGAGTTGTGAAGAACC	386
224	TTCACAATTATCAATACTGTTATATCGC	197
116	CAATCTGAACTCCTGCTTGACC	95
276	CAGACACTTCATCGTTGGACTTG	254
245	GGAGTTCACGGAATGGAAGA	226
171	GGAGTTCACGGAATGGAAGA	152
415	CACCTGAGGTAACAGATCCAATC	393
585	AGCCAACCACAGAGCACAATC	565
204	CTTCAACAATCTGCGACACCA	184
159	CTTCAACAATCTGCGACACCA	139
948	CAGCGATAATGTAGACTAGGAACG	925
841	CAGCGATAATGTAGACTAGGAACG	818
868	CAGCGATAATGTAGACTAGGAACG	845
610	CAGCGATAATGTAGACTAGGAACG	587
309	AATACGACCGCCAGAGAATG	290
193	TTGAGTGGATTGCCAATACTGTA	171
1967	CGCTGTTCCGATTAGTTCGTG	1947
123	CTCAGTGGCTCCGCTGTCAG	104
123	CTCAGTGGCTCCGCTGTCAG	104
694	CTGTCCGCCTTGTCCTCCAC	675
510	CAGAACTGTGTCCGTTGGTG	491
321	GCAGCAGCCTCTCCGATCAC	302
414	GCAGCAGCCTCTCCGATCAC	395
350	TCTGTGAAGGTCTGCTTGAGTGA	328
425	GCTTGTTGCTCACTGGATGC	406
676	CAGTTGGACCTGGAGTACCG	657

2701	TCTGGCATTCTCCGCAAGTC	2682
2590	TCTGGCATTCTCCGCAAGTC	2571
525	GGAACAGTGAGCTACTGTCGAGA	503
265	AGTATCCAACCAGAATGATAATTGCTC	239
566	GGTATCTCTGTAGTCTTCATCTTCCA	541
1080	CCAGAACGACCAATACGATGAATG	1057
494	TTCCAGAGTACGAACTTCCGA	474
654	TTCCAGAGTACGAACTTCCGA	634
178	ATCTCGCACGCACCATGATC	159
119	CGGCACACATGATTCCACAT	100
132	GGCTATAATAATTGCTATACAACCAACG	105
216	GATGAACTCGCCACAACCTT	197
764	GCACAGTTAATGATTGTGTCCTCT	741
808	GCACAGTTAATGATTGTGTCCTCT	785
164	CATGCGACATCGGAGTAGTG	145
346	CGGTTCTGGTCTTCTCATCT	326
812	GCACTCATTGAGAGAACTGCTACTC	788
551	TTCTTCATTATATCTTCATTGTTAGGCT	524
151	CCGATTGAATAGCCTTAACCAC	130
189	CTGCATTATCATCATCAACAGGTT	166
557	CGGAGATTGGATTGAGGATG	538
1166	TGAAGATCGTCCGCCAGTAC	1147
165	CAATGGCTATGTATTCTGATGGTC	142
140	GGCGTTCATTCTTCTTCATTACC	118
772	TCCGAATGATGAAGATGATGG	752
769	TCCGAATGATGAAGATGATGG	749
132	TCGTGTGCTTCCACCACCAC	113
1157	GGACCATCAGAATACATAGCCATT	1134
7386	AAGATAATGAGCCAGTAGGAATGAGC	7361
1253	GGACCATCAGAATACATAGCCATT	1230
1187	GGACCATCAGAATACATAGCCATT	1164
1187	GGACCATCAGAATACATAGCCATT	1164
318	TGGAGAAGCTTCTGGAGCAC	299
254	TGAATGATTGATAGTTCCAGATACG	230
255	TGAATGATTGATAGTTCCAGATACG	231
127	TTGTTGGCGAGTGATTGTCTG	107
664	GTTGAGCGGCAGTTGTTGGT	645
664	GTTGAGCGGCAGTTGTTGGT	645
664	GTTGAGCGGCAGTTGTTGGT	645
206	CCATATAACGGCCTGGATTCC	186
224	CAGTGGTTGAGATTGACGGAA	204
307	CGACTTGAAGACACCGCTGA	288
598	CGCATTGGATGTTGTAGTTGTTC	576
1975	TGTTATGACTTGTTGAAGAATGACTTGA	1948

991	CCGAATCGTAAGCCGCAATC	972
1035	CATCTCTCCGCCAGTCTTCTC	1015
965	GCCGAGTCTGCGATTGACTC	946
1034	TGGCATTGGAAGGCTCAGAA	1015
1034	TGGCATTGGAAGGCTCAGAA	1015
1034	TGGCATTGGAAGGCTCAGAA	1015
811	TGGCATTGGAAGGCTCAGAA	792
586	TTGCAGAGGTGGTGTATTCGTC	565
784	CATCGTTCAGAGGCTTCTCG	765
612	ACTGCTCGTTGACAGAAGGTG	592
612	ACTGCTCGTTGACAGAAGGTG	592
1056	AATCGCTGAGATCCTTGTCTC	1035
830	AATCGCTGAGATCCTTGTCTC	809
1843	GGTGCTTCAGTTCTTGTCCAG	1823
260	GCTAGGATCGCAGACTGCATT	240
833	GCCGTCAGAGAATGAATCACTT	812
703	TGTTGACTCTGACTGCGATTG	683
419	CCTGATTGTTGACCGTGATGG	399
419	CCTGATTGTTGACCGTGATGG	399
354	TGTATATGCCTGATACCATTGTT	331
2234	GTTGGCGAAGTGTGTTACGAT	2214
2239	GTTGGCGAAGTGTGTTACGAT	2219
242	GGCAAGAGGTTCTCGTGTGA	223
175	TGAAGAGATGAATTGATGAATAGACC	150
141	AATATAGCATCGAAGTCGTGGAG	119
862	TGAGGTTGTGGAAGACGGAT	843
937	TGAGGTTGTGGAAGACGGAT	918
554	TGAGGTTGTGGAAGACGGAT	535
505	TGAGGTTGTGGAAGACGGAT	486
485	TGAGGTTGTGGAAGACGGAT	466
1023	GCGATGTATCCGATGAGGTC	1004
218	GTGAAGTCGTTGAGATTGTGGTAT	195
956	ATAGCCACTGTGGCGATTGC	937
861	CGCTGAGATAAGTAGTGTGTATACGG	835
533	TTAAGAGATTGGAAGTGGTCGTAGT	509
693	TCTATGAATTGGCTGGTACGG	673
4078	TCTTCAGTGAGGTAACGGACAGT	4056
836	AAGATTCCAGACGCAACGAG	817
101	CACCACGTCTCCATCATTCG	82
1926	CTTCCAATCGTCTCCGTCAG	1907
1926	CTTCCAATCGTCTCCGTCAG	1907
1092	GCTCGTCCGATGTGCTAGTG	1073
685	CCTTCTTGTTGTCTGGCTCTTCT	663
5659	CTTCTTCATCAGCTATCACATCTGG	5635

780	TGTTCTGACACTTCGCCAATG	760
375	TGATTATGCTCTGGACTTGATCG	353
445	GCGTCGAGTAGTAGAAGAGAATGC	422
386	GCCAGAGATGACTGTAGAGATTGC	363
1624	CGATACGAAGTGGTGGAGTCA	1604
1486	GCCAACAGCAGTTCTAGCCTT	1466
287	TTGACTCCGTAGCCTCCGTT	268
1760	TTGTTCTCTGATGGTGCGT	1741
324	CTTGTTCTCTGATGGTGCGT	304
116	CTTGTTCTCTGATGGTGCGT	96
200	GGCTCGGCTATCACTTGGCT	181
494	TCCACTGATGCTCTACCTCCA	474
282	GTCGATAGGCACCGTGGATA	263
100	TATCGTAGTAGTCTCGGAGCACAT	77
821	GTAGGATCACCACTCTGACGAG	799
1077	ATATCTACATTCCGACGACTTGC	1055
960	CACCGACACACCGATTCTCTC	940
846	GCAGGCGATGACTAGGAGATAC	825
149	TCGATGTACTCACGAGCCAA	130
149	TCGATGTACTCACGAGCCAA	130
275	TGAAGTAGTTATCAGCGATCTCCAA	251
100	GCACTTGTATCGCAGATTCGG	80
577	TCACCGATTCTTGCCTTGC	558
598	TCACCGATTCTTGCCTTGC	579
673	TCACCGATTCTTGCCTTGC	654
471	GTTAGACTCGCTGTTGAACGCTT	449
360	TCCTCGTATTCTGGTGGTAGA	339
128	TCCGATCATAACTACTCATCTGTGTT	103
6966	TGTGTGGTGTACATTGGAGAGAA	6944
290	ATCCGAACTGGCGAAGGTCT	271
467	AGCAACTGGAGCACAATCACA	447
340	ACTGCTGGTCACAAGATGGTC	320
490	CCGTATCCACAACCTCCTCTCA	469
864	GTCGCCACTATTGTTACCAG	844
243	GAATACTTCTTCCATGCGAACG	222
825	GTCGCCACTATTGTTACCAG	805
763	TCTGGATCGGCAAGTTGTAGT	743
149	TTGCACAAGCACCATGGCATA	129
763	TCTGGATCGGCAAGTTGTAGT	743
124	GTCGAATCACTGTGCAAGAGAA	103
517	CCGAATCCAGTATCACATCCA	497
791	GTGCTCGCAGGACTCGATGT	772
378	GTCAGTGTATAGGTAGCAGAGCA	355
880	GACATTGGTGGTGGTGGAGA	861

804	GACATTGGTGGTGGTGGAGA	785
818	GACATTGGTGGTGGTGGAGA	799
846	GACATTGGTGGTGGTGGAGA	827
170	ACCACAACCAGAATACAGGAATG	148
381	TGATTCTGGCAACTGATGAGCA	360
381	TGATTCTGGCAACTGATGAGCA	360
569	GCGTGACGTACATGCTCCAA	550
994	GCAATTGCGGAGCTACGGTT	975
649	CCACGGAGACGAGGATGACA	630
222	AGCATTGCTGTTACATCAGTT	201
321	CTCTCCTGGCAGCATCTCAT	302
790	GTCAACTGCGAGGTGGTGTC	771
771	GTCAACTGCGAGGTGGTGTC	752
790	GTCAACTGCGAGGTGGTGTC	771
215	GTTGTGGTGGCTGCTGTTGC	196
595	GGTCAGCTTGCACTTGAGTCG	575
99	TCGTTGAGGAGTGCTTCGTTT	79
124	ACTTGGAGGACACGAACTGG	105
254	CCATTCTCCAAGAGTGTCAA	234
220	CCATTCTCCAAGAGTGTCAA	200
239	TAGGTCATTGCGGAGGTGTG	220
191	TAATGCCTGGTCGTTTCGTCA	172
412	ACCGTAGCAGTCGTCGTGAA	393
151	AGCTCCATTCAACAAGAACGC	132
281	GGTTACAGTATTGAACGCCAGTG	259
1022	CGTGAGCTGTCGTCTTCTTCC	1002
455	ACGATCATCAGGATTCCGAA	436
373	AGCTACAGCGTGACTTGTGAACT	351
509	AGCTACAGCGTGACTTGTGAACT	487
284	AATGGAGTGTTACAACAACAATG	260
359	AGATACATCTGGTACTGGCTGAGTT	335
275	AGTTGACACCACTGTAACCGATT	253
199	TCCGTCTTACACACTTCGTCACA	177
440	CGCAGGTGTCAGAATGTTGTG	420
711	CATCATCGCCTCACTTCGCT	692
1035	CCACCAATAATCGTAGCAGAAGC	1013
240	TTGAGATGTTGGCACTGTTGA	220
430	GAGTGTTGTTCTTGCGACCAG	410
430	GAGTGTTGTTCTTGCGACCAG	410
1116	CGATGTTGCTGGTGAAGGAC	1097
1041	AACGACAACGGTGTTGGTGAA	1021
404	TCGCATCAATCATTCCGATT	385
435	TCGCATCAATCATTCCGATT	416
1005	CAGGTTCCGTTGTAGTTGGTG	985

1013	GAGTCTCCAACTCCTGTTCCAA	992
269	GAATCTTCATCTCCGCCTTG	250
460	TCTCTTCTGGATGGCGATGG	441
768	TCTACACTGTTAACAATACTGTCCACCA	741
162	ATTGAGAGCGCATAGAACGG	143
259	TGTCGTTGAACAGAGCAGCA	240
504	CCAAGAGCAGTTGCATAGGAGATG	481
613	CCAAGAGCAGTTGCATAGGAGATG	590
406	CCAAGAGCAGTTGCATAGGAGATG	383
504	CCAAGAGCAGTTGCATAGGAGATG	481
613	CCAAGAGCAGTTGCATAGGAGATG	590
262	ACTGTACGCCTTCCGGTTGT	243
160	TTCAAGTTCGAGTGGCTTCCTTC	138
638	CATCCACACAGAACTCCGAAGA	617
810	ACAGCGGTGAACTCCTTCCA	791
810	ACAGCGGTGAACTCCTTCCA	791
810	ACAGCGGTGAACTCCTTCCA	791
1697	CACTCGTTCTTGAAGTTCCGTAA	1675
2137	CACTCGTTCTTGAAGTTCCGTAA	2115
185	CCTTCGTCATCGGTTCAAGT	166
268	GATAGGCGACTTCAGAGATTGC	247
346	GATAGGCGACTTCAGAGATTGC	325
126	GACATAGGTTGAGGACTGCGTT	105
126	GACATAGGTTGAGGACTGCGTT	105
219	CCAGCCACGTCAGATCTATCG	199
253	CCAGCCACGTCAGATCTATCG	233
240	CCAGCCACGTCAGATCTATCG	220
144	TTCCAGCATCTCATTGTCCTTCT	122
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333	GAGTTGTCCATCAAGAGCGATT	312
533	AATGCGTTACAATCTCTGGTGAA	511
557	AGGAAGTGTCGGATGTGCTC	538
250	CAGAAGGCTAATTCCGTGTGA	230
132	CCACCACATATCTCATTAGCA	111
121	ATTCATTGCCTCATCCATTGC	101
120	GTGCATCTAGAAGCCGGCTT	101
131	AACGGCGACTTGTGTGTGTA	112
155	GATCCGACGTACCGTTCGTT	136
677	TCAATATCTCCTTCAACTCCATCAG	653
593	AGCAAGAAGTGAAGATTCCGATAC	570
1658	GGCATTCCGTGTTTCATCAGT	1639
146	ACCAACAGCAGCAACATTCT	127
644	CGTAGTGTAGAAGATGTTGTTGCG	621
1628	GATTCCAATTCGGCTCGTAA	1609

469	GGACTACAACCTTGCTGCTTGCTCA	446
166	GTCAAGAAGCTACTCTCACTACTACTGC	139
315	CCACAACACCACGAACAGATG	295
314	CCACAACACCACGAACAGATG	294
602	AGCATTATCTTCAGCATCCGA	582
1112	CCTCTCCTTCCATCATACGGT	1092
218	CGCTTCTCTTCGAGTCCAATAGTC	195
779	TTGATATAATTGATGTTTCATTGAGCAA	753
421	TGAAGAATGTTCCAGTTGCCT	401
276	CCAGGTGAGACATCATACAGTGC	254
1170	CTCATCAACTCCGAACCGAA	1151
341	ACTTCATATGGTAGTGTCTGGTTGAC	316
341	ACTTCATATGGTAGTGTCTGGTTGAC	316
1578	AGCAGAGAATAGAGATGATGTTCTT	1553
341	ACTTCATATGGTAGTGTCTGGTTGAC	316
1249	GCATCTGTTCTCCAGCCTGA	1230
275	GCATCTGTTCTCCAGCCTGA	256
455	TCGTTCACTCCAACCTCGCAT	436
435	TCGTTCACTCCAACCTCGCAT	416
380	TCGTTCACTCCAACCTCGCAT	361
386	TCGTTCACTCCAACCTCGCAT	367
145	CCAATTCGACAATGGATCTAGC	124
1309	GATGTGTTGAAGTCTGAGTGGATGA	1285
1854	TGCCACATGACCTAAGCGTT	1835
704	TGACACTTAAGTTCAGAATCAGCATCA	678
1640	ACAGATTCCAGCCAGAGTGC	1621
749	CGGAATGGATAATAGACAGTTGC	727
223	ACAAGCACCATTGCACCGTT	204
181	GACCAAGACGAGAGCCGAAG	162
221	AAGGCATCACACGAGGAATC	202
603	GATGGAAGCACAGTTGAGACG	583
644	GATGGAAGCACAGTTGAGACG	624
139	CATTACTACATACCGTGGAAGAAGG	115
187	AATCTCCACCGCCACCAACT	168
308	CATTGGAAGCTGGTTGTATGG	288
120	GGCGGCTGTAGTCCAGACAA	101
328	CGTATTCTGTGACTGTTCCATCC	306
501	GTGAGCGAGTGCGGAATGAC	482
1328	GCTCGGTTCTTCTGTTCCA	1309
1470	GCTCGGTTCTTCTGTTCCA	1451
574	TGAAGACGCATGTGCTGTAGA	554
249	GGCTCGTCCTGTGTTGCTAA	230
1033	GACAATATCCTGATGTTCAGTCACC	1009
359	CAGTCCTTGTTGCTGGCATT	340

501	ACGGTTGAATAGGTAGTGACAGC	479
429	CATTGCCAAGCTAATAGCCAA	409
1296	AAGACGGCGATCACACGATC	1277
515	TGCCAGCGTTCATACATCGG	496
109	CGATGCTGTTATCTGATGATGG	88
232	CGATGCTGTTATCTGATGATGG	211
165	CGTCGTATGTGACTGGAGCA	146
220	CGTCGTATGTGACTGGAGCA	201
589	TGTCGTAGAGCCAATGAATGC	569
864	GAATGAGTTGTGACTGATGGAACA	841
856	GAATGAGTTGTGACTGATGGAACA	833
189	CTCCTGGCAAGACTGTGACG	170
214	AAGAGCGAAGTGTATGACCGA	194
351	CTCCTGGCAAGACTGTGACG	332
2427	TGTGTATGCGGAGTTGATGTTT	2406
209	TATCGCTCGCAACGTAGACG	190
1073	CCATCTTCGTCTCCTCCAATC	1053
1073	CCATCTTCGTCTCCTCCAATC	1053
1073	CCATCTTCGTCTCCTCCAATC	1053
154	TCCAGGCTCATCTCCATTCTC	134
1051	TGAGCACAGCGACGACATTG	1032
353	CAGTGTGAAGAAGCACGGAGT	333
291	CACTTCAACATTGCGAATCATCA	269
207	CCTCCTTGTAACCACTTCCACTCTC	183
129	CCTCTTGAACAAGGAGACCGA	109
166	AGTGAGAGCACGGTAGAGGATC	145
137	TTCTTCTTGAGAAGACACAATTCTAGG	111
128	TGCATCTCCTTCTACTTCTCTCT	104
124	CTCTCAGCCGGACAGACGAA	105
552	ACGGCAATGTGTCCAAGGTT	533
193	CTGATAGTGGTGGTGGTGGAC	173
221	ACGGCAATGTGTCCAAGGTT	202
366	ACGGCAATGTGTCCAAGGTT	347
126	CGATCCACTCGAGACAATACTCT	104
175	CAGTAACAATGGTTGGAATACTCAGGA	149
214	CAGTAACAATGGTTGGAATACTCAGGA	188
158	TTCATCTCCTTCTGGTGCTCTT	137
1311	CCAGTATTGAGCGTCTTGAATGC	1289
538	GCTCCTCGTGATTATCTTCGG	518
120	CTGATCGAGTGGTGGCGTCT	101
480	CATCCGAATCATTGGCGACA	461
419	CTCTTCTGTTCCAATGACCAC	398
385	CGAAGAGATTGAGAGAGCGATT	364
141	AAGATGAGAACGGTGATTGCA	121

275	TCGGCATTGTCATAGTCTACCA	254
562	ATGCGTTGCAGGTATCCATG	543
2617	TGAAGGAGTATGGTACGAATGGA	2595
2613	TGAAGGAGTATGGTACGAATGGA	2591
168	AGTGTGGCAGCGGACTGTG	149
267	GCTTAACAACCACATGCTTCG	247
261	GCAAGCATTCCGAGAGACAT	242
556	GCAAGCATTCCGAGAGACAT	537
912	AAGAAGACCAACAAGCTCCATG	891
2671	ACTCGGCTTCCACCAATGATAG	2650
2683	ACTCGGCTTCCACCAATGATAG	2662
1681	ACTCGGCTTCCACCAATGATAG	1660
1847	ACTCGGCTTCCACCAATGATAG	1826
1120	TGCCGAGGAGAACAGAGTAGA	1100
1023	GATAGTGTCTTGATGTTGGAGTTGTAG	997
718	GAATTGCAGCGGCTGCTACT	699
905	GAATTGCAGCGGCTGCTACT	886
196	GTCGAGCAGTAGCACAGCAA	177
293	TCCAGATTCACCGTCACCAT	274
358	GATTGCTAAGTGTTGATTGTAGTTGTGA	331
772	AGCAGAGATGTTGAAGCCAGTT	751
237	TGGTCAATTCATATCCTATCGGT	215
201	TTGTAAGTGCATCGTCTG	181
1181	CAGGAAGTGTAGCGGTTGGC	1162
200	GCTGATGAAGTACGATGTCGGA	179
1152	TGTTGTGAGATAGGATATCGGTTG	1129
491	TACTTGTGAGCCGCAGACAC	472
491	TACTTGTGAGCCGCAGACAC	472
435	AGATTGCTGTGTAGGCTTGTGG	414
228	CGACGAGTAACTGGAAGTGGT	207
6487	GCCTCCGTTGACTATCTTCGTAA	6465
6473	GCCTCCGTTGACTATCTTCGTAA	6451
144	TCATCAGTACGATCAGTCACTTCC	121
2036	AACCACCACCAGAACGATGA	2017
2032	AACCACCACCAGAACGATGA	2013
2050	AACCACCACCAGAACGATGA	2031
2056	AACCACCACCAGAACGATGA	2037
2014	AACCACCACCAGAACGATGA	1995
1558	GACTAGCGAAGAGATAGCGATGA	1536
444	GCATACCATCCAGCAATACCA	424
388	AAGTAAGCATTGTTGTGGTGAAGA	365
409	TGCTTGACAGGCTTGTAGGAGAT	387
704	TGCTTGACAGGCTTGTAGGAGAT	682
140	TGAAGAATCCTTGCTGGTCGT	120

140	TGAAGAATCCTTGCTGGTCGT	120
272	ATCGTGCTTGATTGACCAC	253
432	TCCAACATTCGTTCCAGTCAA	412
1402	ACAAGAACCGAACCGAGCGT	1383
148	ACATGGTGCACGTAGTTGTAGACC	125
187	TTGTACGTTCCGACGTGCAA	168
308	GGAGACGGTATTGATGGAGAAGC	286
187	TGAATTCGTTGTTGTCAGCTCTT	165
234	TGAATTCGTTGTTGTCAGCTCT	213
189	TGCAATCTCAATTCGACCAA	170
194	CATGAGCCAACTGATCGTGA	175
154	GGTAGACATCGAACCTGAACATC	132
214	CGTCGATAGTGTACTTAACCGTCTT	190
273	GATTGACAACATAGGAGAACTCGTAGTC	246
204	GGTGACTTGCATGGAATTGG	185
77	ACCACCGAGAATGCCACTGC	58
621	CACGGCGGTATGATGGTTGA	602
250	CCGTTAACATCCGTGTACACTTCG	227
105	AATTGCCATGTAGCAGTCGAA	85
108	GAGGTCTACACGGCTTAGGTGAC	86
176	CATTGTTCAACGTCCAGATCG	156
835	GCAGAGCATTATCCGACCT	816
202	GAATTCGGCAGATAAGGAGCT	182
284	CGAGGACATATTGGTATTGGAGA	262
854	GCAATAGGTCTTATGGATAGAATGTACC	827
176	CAGCAGCATCCACAGCAATC	157
194	GCTCCTTCCTTCTTCTTGCC	175
818	CTGCGGAAGAACACATTAGAAGT	796
394	GGAATTGGTCCTCTTCAAGACA	373
244	AAGTGTATCCGTTTCATTGCGTA	223
1004	CAATCTCTATTACTCGGCTCTTCG	981
158	CACGATAGCTGCAATGTTGGAA	137
1008	ATGTGGACACGACTTGGCTT	989
309	TGAAGGTTCTACATTCAAGTTAATCAC	283
377	TGAGATTCGTGGAAGGAGGTT	357
202	CGTGATGACTTGGATGCTGA	183
1731	CAACATCAGTTCTTGTATGGTCTCAG	1706
377	CGACGTATGAGACGATTGTAACG	355
520	GAAGTTGTGCCAGAATCGCT	501
732	CTTGAATAGCAGCGACGGTT	713
146	TCTGAGAGTGTACAGTTATAGGAGACG	120
228	CCGTTTCATCCATTAGCCAA	209
509	GCAGCAGATGTGATTACAACGAA	487
302	CTGAGGAATGGCAACTGGTC	283

302	CTGAGGAATGGCAACTGGTC	283
497	GGTTAGAAGACGAGCCAGAGTTG	475
522	GGTTAGAAGACGAGCCAGAGTTG	500
149	GGTTAGAAGACGAGCCAGAGTTG	127
804	TGACATTGCTTGGACACTTCTC	783
1117	AACGACGAGAATGACGGCTT	1098
1066	AACGACGAGAATGACGGCTT	1047
1193	AACGACGAGAATGACGGCTT	1174
151	GCCTCACATTGTCAGTAGCCAT	130
114	CCTCTCCGTGTGCTACCAAC	95
145	GTTAGCGGCTGCCATCCTCT	126
1325	TTGAATACTCGGCATGAGGAG	1305
131	TTATTCATTGTTGTCACCATTGC	109
274	TTGAATCGTCGTCGTGACTG	255
240	TTGAATCGTCGTCGTGACTG	221
397	CGGAGGTCATTCCGGTAGTGT	378
553	GCTGGCTACAGTAAGCAGTGC	533
529	GCAATGCACAATCCTGATCC	510
1027	CACTCGAACATCAACGATTACTCAA	1003
254	CCATAATCCTCCACAAC TTCACA	232
275	CCATAATCCTCCACAAC TTCACA	253
474	CCATAATCCTCCACAAC TTCACA	452
98	TCGAACTTCGGAGGAGAACG	79
1419	AGATGGACGAGGAACTGATGAG	1398
591	CTTCTTGTCTTCACGCTTCACCTT	568
683	TGATTGTAGTAGACGGCTTGTTGC	660
2115	TTCATTCATCTCTGTCATATTAGCAA	2090
822	TGCTTCAGAATACATCCAGACATC	799
392	AATGAACATGAATTGTCTTGAAGG	369
119	GCATAGCCTTCACAATCGGA	100
686	CGCAATCTTGAATACGTTGTCTT	664
309	GGACCAGACGCTAATGTTGTG	289
425	GAGAAGGCATGGTTGTCAGC	406
1955	GCTATGATTGTGACTGGAACCG	1934
190	GACGAGCAACAGCAGGTAGC	171
798	GGTAGCAGGATTGTTGTGAAGAGC	775
334	TTGGCTTATCATCATCATCCG	314
334	TTGGCTTATCATCATCATCCG	314
126	ATCGTGGTCGCTGTGCTCAT	107
359	CGAACATTGAGAGTATGGAGACTG	336
1155	GAATGTGAAGCAGGATAGGAGAGA	1132
893	GCGAACAGAATCAGATAGTCACG	871
664	TGATGCCGAGACAGATGGAA	645
857	ATGAATGGACGAAGCACGAT	838

209	AAGATCACTGGAAGCATGCC	190
366	TTGATAGCGAAGTAGGAATAAGAACTC	340
316	AATGCAGTGGCAGTGAGACA	297
213	TGTGGCAGTCGACCACCAAT	194
182	TGTGGCAGTCGACCACCAAT	163
227	GCGTATTGTCTGTCCAAGTAGGC	205
118	TCATTCCATACGATGAAGTCACTT	95
168	GTTCCGGTGTAGTGCATGTGC	148
202	GTTCCGGTGTAGTGCATGTGC	182
168	GTTCCGGTGTAGTGCATGTGC	148
202	GTTCCGGTGTAGTGCATGTGC	182
479	TGGATGTAGTTGCACGGAGA	460
161	GGACACGGTCTGATGGACAG	142
1073	TTCTAACGACGGCTCTGCTC	1054
992	CAGCCAATGTTCTGAATGTCTG	972
1118	CAGCCAATGTTCTGAATGTCTG	1098
148	GCGCCTTCATCTTACTATCGG	128
253	GGACGGCGAGTTCCTCGTAGT	233
168	TGGTGGTGGAGAAGCTGGAG	149
639	TCTTATGGCAAGCGATTGGC	620
448	GCTTGATGTCACGGTGAAGG	429
2143	TGCTCGCCTCCAATAGAAGA	2124
2143	TGCTCGCCTCCAATAGAAGA	2124
2143	TGCTCGCCTCCAATAGAAGA	2124
2035	TGCTCGCCTCCAATAGAAGA	2016
1176	CGACTAACATCAGATACTGTGTGTCC	1151
87	AACACCGACAAGCCGACGAT	68
820	ACATGATGAGCATGACAATGAGAA	797
754	ACATGATGAGCATGACAATGAGAA	731
1017	CGTGTCGTCGTCATTGATACTC	996
1227	CGTGTCGTCGTCATTGATACTC	1206
1161	CGTGTCGTCGTCATTGATACTC	1140
715	ACATGATGAGCATGACAATGAGAA	692
838	CTTGACTGGAAGGCGTTGTAGA	817
772	CTTGACTGGAAGGCGTTGTAGA	751
509	ATCACAAGACTCCATGATCCAGT	487
485	ATCACAAGACTCCATGATCCAGT	463
2510	TGTGTCATTGGCTCTACGGA	2491
305	GAGAACAATGAACGGCAGCA	286
212	GAGAACAATGAACGGCAGCA	193
296	GAGAACAATGAACGGCAGCA	277
1179	AGTGAATTGGCACTGGATCTTC	1158
1170	AGTGAATTGGCACTGGATCTTC	1149
2193	GGCTATGGTGAGTGCTGGAC	2174

2217 GGCTATGGTGAGTGCTGGAC	2198
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2224 TAAGAGTGGCGGTGGTGAGT	2205
2217 GGCTATGGTGAGTGCTGGAC	2198
294 CAAGGAAGTCGTGATACCAACTGA	271
569 CAGGTTGATGTCATTATTCCAGTTG	545
366 CTTCCACTTGTCGGCTCCAG	347
985 ATATATGCTTAGCTGTTGTGAGTTCC	960
537 AACTTGAAGCGAGCATATGAGAT	515
1724 ACAGTATGCGACAAGACACAGC	1703
1724 ACAGTATGCGACAAGACACAGC	1703
526 AGATGATCAAGAGGATGACAAGG	504
1460 TGGATTACAACCGACATGATGT	1439
1432 TGGATTACAACCGACATGATGT	1411
488 CAGAAGCCGTTGTAGTTGTGTTG	466
732 TAGCTCATTGCTCGGCAGAC	713
110 TTGGAGTTCTCAGACAACAATGAG	87
317 TTGATGACTGGTGGTATGGTAAGAAC	292
218 TTCCGATTCTGCTGACACTGT	198
142 CATTCTCCTTCTTCCGACTGC	122
182 CACAAGCAGTTCCGCACTCT	163
874 CCAAGAACAGGCTGTACTCCA	854
638 ATTGTTGGCGGTATGTGGAA	619
262 CGATGCCTCTGATTCCGATA	243
1111 CCTTGTAACGAGCGAGCAAT	1092
1108 CCTTGTAACGAGCGAGCAAT	1089
154 GGCGCTCTCAGTGTCTCCTT	135
201 GGCGCTCTCAGTGTCTCCTT	182
396 GAAGGCGTCGTGTATGAAGAATC	374
2361 TGGAGAGGTGGATTCGGATTG	2341
141 GATTCCAGAACGAGCATGGC	122
141 GATTCCAGAACGAGCATGGC	122
420 TGTTGATGGAGACTTGATGACG	399
1516 GATGAAGATGAGCAAGTGAGACC	1494
1742 GATGAAGATGAGCAAGTGAGACC	1720
1470 GATGAAGATGAGCAAGTGAGACC	1448
2007 GATGAAGATGAGCAAGTGAGACC	1985
1099 GATACGACGAAGAAGGAATGGT	1078
994 GAGCCGAGCCACTTCATCAC	975
222 CGGCGACAGAGACAATGGTT	203
1170 CTTGAATCCACGAGCCACAT	1151
172 GAGAAGACTTGAATCATCGTCCA	150

129	GAGGTTGGCTCTGCAGTGAA	110
228	GCCATCGACTGAGAGGAATG	209
645	TGGAGCTGTTGTCACAGTAGATG	623
273	GGTTCCGTCTTAATCGTCCA	254
122	CGACACCTCTCACACAATCTTG	101
367	AATGTTGAAGCAAGCGATGAGAC	345
477	TTCTCCACAGTAATCGGTTCTG	457
473	TTCTCCACAGTAATCGGTTCTG	453
342	ATTGGTGTCTGTCTCCTGTGG	322
177	CGACGGTGAGGACAGGCAAT	158
205	GGATGTCTGAAGCCATCAACG	186
158	GGAAGCTGCTTCATTGGAGTTG	137
204	GTCGCTGTAGTGTGCATTGG	185
188	CTGCCAAGGTAGCGAAGGAT	169
176	AGTCCGTCGACGCCTAGGAT	157
344	GGATTGTGTAACGACTCGCTTG	323
639	TGCTACAATAGAAGCCACTGACA	617
782	GTGCCAAGGCAAGTAACGAC	763
98	TTGATGTAATGCTGGAGTGGAA	77
878	CCGTGCATAGAGACTGATACGAA	856
1163	GTTGGACACATAGGTTGTCACG	1142
345	GAGGACGGCGGCAATCATAG	326
330	AAGGACAGCGACACCGACAA	311
349	CTAGAACTGACGCGGTCAGG	330
1323	CAAGATGATAACATGAATAGACCACAA	1297
589	GGACTTCGTTACCATCGCAA	570
550	TCAGAAGAACGGTTAGAGATATTGC	526
217	AAGCTGATTGGACCATTGCA	198
386	TCTGCTTCTTGTTTCATCCACTTGT	363
1114	CACTATCCATTCCAACCAGACA	1093
128	TGCTCCGACCACTAACTTCAC	108
128	TGCTCCGACCACTAACTTCAC	108
203	TGAACTTGACTGTACATAATCACTGG	178
278	TGCTCTGATATGAATGGAAGTAACACT	252
156	GTGGAGGAACTGGTGTGAAGATTG	133
341	GACCTGCCACAGAACCAAGA	322
176	TGCCGACACCGACATCTGTT	157
353	GACCTGCCACAGAACCAAGA	334
546	GACCTGCCACAGAACCAAGA	527
173	CGAATGGTCCGAAGACTTCA	154
195	CGAATGGTCCGAAGACTTCA	176
161	GAGCGAATCCGGTGATCTCA	142
237	ACGGATTGGTCCATCACGAT	218
321	GGTTCCTCCAGTAGCACGAAGC	300

339	GGTTCCTCCAGTAGCACGAAGC	318
1030	TAGACGACGCCAGAGCAACA	1011
443	AGAGCGACCAAGTATGTGTGAA	422
1064	GCGAGGATTACAGAAGAAGCC	1044
820	TTGCTGGTTGGAGGTCTTGC	801
696	TTGCTGGTTGGAGGTCTTGC	677
1110	TTGCTGGTTGGAGGTCTTGC	1091
610	TTGCTGGTTGGAGGTCTTGC	591
193	ACACGGATCGAGTCCTGGAC	174
243	ACACGGATCGAGTCCTGGAC	224
1149	CTTGCCTCGTCGACTTCCAC	1130
735	TGTGCTCATCAAGTCCTCCA	716
774	TGTGCTCATCAAGTCCTCCA	755
288	GCTCATAGATCCGTGGAAGATG	267
557	TTCGTACCTCCTTCTCTGG	538
180	CGAAGACAATCATCGCACAA	161
142	TCGATTCCTAATTGTTTCATGATCA	119
3291	CGAGATGAATTACGCAACGC	3272
158	GAAGTGTGCTTGACTGTTGTTACCA	133
147	GAAGTGTGCTTGACTGTTGTTACCA	122
155	GAAGTGTGCTTGACTGTTGTTACCA	130
158	GAAGTGTGCTTGACTGTTGTTACCA	133
147	GAAGTGTGCTTGACTGTTGTTACCA	122
384	GACACCAGCGTAGATGCGAT	365
1026	TTCCAGTTGAGCGTCGTGTA	1007
2016	AATGCTTGATTGAGCACTTCG	1996
1330	GTTGACGAAGGAGACGGAAGT	1310
1035	GGCAACTTCTGGAGCATTCTG	1016
367	CTGTGTAGCCTGGTTGACGAG	347
367	CTGTGTAGCCTGGTTGACGAG	347
558	CTGTGTAGCCTGGTTGACGAG	538
254	CTTCCTCGTTGGTTCCGTTG	235
127	AATTGTGCCAGATCACAAGTATAGTTC	101
537	CCTCATAGTCTTCACATCTTCATCG	513
441	CTCCTGTTCTCGGCGTGAT	422
860	TTAGTGATGGTTAGGATGATGGC	838
629	TGCTCCTTATCATCGGAATGTTG	607
304	GGCAGAGAGCTTCGATCAGA	285
204	GGTTCTCGTCGTATCACTTGC	184
181	GATTCCTACCATTCCTTGTTGTTCTG	156
181	AGAACTTCACTCGTGTACTGTTATCC	156
121	TCCGACCTTCACCGTCTATG	102
708	TGAATTAGGAAGATGGTCGAGCAA	685
1320	TTACCGCCACTGTAGTTGTCTG	1300

499	GGTCTTCTTCTGCACTGATTCTG	477
134	TCACCGCCGCTGTAGTTGTC	115
1268	TATGATTGGTCGCCGTGAAC	1249
1263	GAGGTGTTGCTGGAATTGGCT	1243
810	ATCACTTCCAGTTGTGTTGTCG	789
892	TTGAATCAGGAAGATGTGAGTGC	870
374	TACGGTAGCCAATCCACAGG	355
1144	ACATTGGCACCGAAGTCACC	1125
1123	CATTGAAGGCAGCTCCGTAA	1104
1692	CACCAGTTGATCGACTGCCT	1673
211	GCTCAGAGATCGGTGCTTGC	192
144	CAACAATGGAATGGCGACAA	125
926	GCACAAGTGGAGAACATCAGTG	905
1435	ATCTCTCCACGGTTCAGGT	1416
1013	TTGGAAGTTGGAGATGAAGTAGAGAA	988
955	TTGGAAGTTGGAGATGAAGTAGAGAA	930
245	CATCCTTATCAGTCCATCTCGTG	223
1400	CGGCTGCTATGCTGTTGTGC	1381
1394	CGGCTGCTATGCTGTTGTGC	1375
1565	CGGCTGCTATGCTGTTGTGC	1546
411	ATGTCCGATGTGATGTCCGT	392
166	CCGATATATGAAGAGCAACTCCA	144
255	TAGATTAAGTTGTGGTAGGAGGTGAG	230
159	TCAATCACCGCATTCTCCTC	140
199	GCTTCAGAGTCAGGTTCCGA	180
1327	CCGAACTGTAGAGGTAAGGAGACG	1304
1087	CCGAACTGTAGAGGTAAGGAGACG	1064
663	GGCTTGATTGACGGTGAGTG	644
144	AGCAACCACAATCTTCTCCAGT	123
1700	CATAGATCGAGCGTCTCCGTACA	1678
1703	AGATCGAGCGTCTCCGTACA	1684
140	AAGTGTGACGAGTTGTGAATGC	119
1356	CATACTCATCCGTCACCGAAT	1336
1590	CATAGATCGAGCGTCTCCGTACA	1568
450	TGGAATGCCGAATGCTTCTC	431
282	CAAGTTGAACATTAGTTGCACATGG	258
124	CGATCGTCACTCTCTGCTTCTC	103
259	CTGAGATTATGGTTAGTATTCACCGTAT	232
172	TACTGTGGCTAAGCGATAGGC	152
1785	GTGCTCTGGCGTTGGATGTG	1766
1893	GTGCTCTGGCGTTGGATGTG	1874
1827	GTGCTCTGGCGTTGGATGTG	1808
1699	GTGCTCTGGCGTTGGATGTG	1680
1893	GTGCTCTGGCGTTGGATGTG	1874

1888	GTGCTCTGGCGTTGGATGTG	1869
1772	GTGCTCTGGCGTTGGATGTG	1753
422	TTCTGCTTGATCGTGTTTCATCC	401
861	ATCCGTGTAACGTATCTCGTC	839
477	AGTGTCAGCGTTGTCATCGG	458
111	AGTGTCAGCGTTGTCATCGG	92
94	CATAACGGCTACGGACCATT	75
125	GGAAGGATATTCTGGTTGAGGTG	103
168	CCGTTCAAGATGCTCACAGAT	148
162	CACGAGCCATTAGCACAGGA	143
127	AAGCGCGAATATCAATGAATCTC	105
147	CCTCGAGATTCATTGATATTCGC	125
139	AAGCTGCCGATACGAGAAGC	120
248	GCCACACCGTTACCTGTTGT	229
258	TTGCAGTGGATCGGTGCTAG	239
2762	ACAACCGACTATTCTGACTCCAA	2740
607	GTCCTTGTTGGCATGTGCAA	588
400	GGTTCAGGAAGTCCTGGTG	381
161	GTCCTTGTTGGCATGTGCAA	142
288	TTGTGGCTGTTAGATGAACTGATAG	264
328	TTGTGGCTGTTAGATGAACTGATAG	304
254	GACGTGTGCAATATAACAGTCTCAT	230
140	CTCAACATTCGATGCTCTTGG	120
242	AGACTCTGAACAACAATCCTGGT	219
905	TCGGTGTTGAATACTGACTCTGA	883
233	GATTCCTCTGCGAAGACGGTT	213
1043	ATCCGACTGCTGTTGAGATTG	1023
518	TCGACGTAGTAGAGGATGTAGCAA	495
2472	TCCGAGATGACACACGACAG	2453
958	GATGTTGTGTGGATGACGGAGT	937
874	TCTTGAGCAGTGTGAGCCTCTC	853
205	AGATCGTCAAGTGCCTCGTT	186
694	TGAGCAAGGCAAGATGGATT	675
706	TTAGCAGCTCAGTATCAATGGTATAGC	680
131	CCTGATGAAGATGGTGGAGAA	111
290	AGATCGTCAAGTGCCTCGTT	271
568	GCGTTATAAGTTGCGGAGGTT	548
1453	CAATTACAACGTCTCCAGGACA	1432
164	TGAGCCTCAAGTCCAACCTC	145
131	TGTTACGTACCGACTGTTCA	111
129	TGATCATCGTCGTCGAGGAC	110
177	CCACCGTTCGTAAGAGACACCT	156
369	ATTCTCCAACAGTAGTGATTCCG	347
2983	CGTCCATATTCAGGTCTCCATT	2962

653 ATCATCGGCTCCTCTCATCA	634
653 ATCATCGGCTCCTCTCATCA	634
244 TTCAGCACGTTCTGGACAGTC	224
244 TTCAGCACGTTCTGGACAGTC	224
452 TGATGTCAAGTCCTCATAATCTGGT	428
357 TGATGTCAAGTCCTCATAATCTGGT	333
148 ACCGAGCAACTTATCAATCACA	127
175 TTGACGTGAGCAATCTCATCTG	154
641 CGTCTTAGACAGTCTCCAGCAA	620
571 GCTTGAGAGACTGCTACACTTCC	549
244 GGCACCGACTAGAGCAAGAAG	224
801 GGAAGAATCGTCGGAAGTCGT	781
2469 GGAGGACGATAGAAGGAGTGG	2449
400 TTCACGGACTGGAGCACGAT	381
400 TTCACGGACTGGAGCACGAT	381
107 TCATTGAAGGATGGCTGGAA	88
142 TCTGTTTCATCTTCCTCTATTCCTTC	118
421 CACTGAACGCAGCATTCCACT	401
493 CACTGAACGCAGCATTCCACT	473
271 CATTCTCCAACCACATTCCAA	251
237 CATTCTCCAACCACATTCCAA	217
448 CCTTGTGATGGTGATGATGATGA	426
241 ACCAGCCATCTCTCAGAATCACT	219
693 CGTGATGGACATACTGTTGAGC	672
270 TAATCGACAGCATCGGCAGA	251
670 AGGTGTCGATTAATGCAAGCC	650
277 ATTGAGGAGCACTTGTGTTCACT	255
133 AAGATGCTGTTGGAGCAAGG	114
321 CCTCTGCTGTCGTCGTTGTC	302
165 TCCTTGTTGATATGTTAATGAACCA	141
1114 TGTAGTGGTGGATGTGAAGGAA	1093
717 CACCACGGAATTGCACACAA	698
1772 GTCGCTGTCGTGAGTGCTGA	1753
1767 GTCGCTGTCGTGAGTGCTGA	1748
522 CAAGAGCGATTCCAGGTGTC	503
529 CAAGAGCGATTCCAGGTGTC	510
622 ATCGCACATTGGTCCTTCGT	603
632 ATCGCACATTGGTCCTTCGT	613
3850 CCGAGAGGTCCAACATCAGA	3831
194 TCTTCTCATCTGATAATACTTCGTATGC	167
331 TCTTCTCATCTGATAATACTTCGTATGC	304
166 GTCGATTGGATGACTCTTACTGG	144
449 CCATAGGCAGACGAATGTGAA	429
255 ACGAACGGTTGGTGGCTCTC	236

255	ACGAACGGTTGGTGGCTCTC	236
484	CACTCCACCAGATGCTCCGT	465
2881	TGATACCAGCGGATTCTGTT	2862
2887	TGATACCAGCGGATTCTGTT	2868
378	CTGCTTCGGCTTCATGTCCA	359
259	TGACGACCTTGCTGTGGATG	240
271	TGACGACCTTGCTGTGGATG	252
1221	TGATTGCTGCGTCGTTACAC	1202
971	CGAACTCGATATTCTTGGAGGTT	949
485	TCATCAGCCTTCGCACTCTT	466
152	ACGTCGTTGTTGGTTGGAGA	133
14986	GGCACATACAGACGCAGCAG	14967
1125	CAGTTGTGGTTGACGATAGACG	1104
1125	CAGTTGTGGTTGACGATAGACG	1104
1125	CAGTTGTGGTTGACGATAGACG	1104
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1125	CAGTTGTGGTTGACGATAGACG	1104
185	CTAGGATTCCAACCTCCGACAAG	164
470	CTAGGATTCCAACCTCCGACAAG	449
182	ATGAAGCATTCTCGTTGGTG	162
128	TCACACACACATACATAGCCTACG	105
544	GCTTGCTGTTGTTGTTGTGG	525
341	GCAGTTGACGCATTGTGATAGAC	319
254	GCTTGCTGTTGTTGTTGTGG	235
745	TTGGTGGAAGTTGAGTTGGAA	725
652	TTGGTGGAAGTTGAGTTGGAA	632
609	TTGGTGGAAGTTGAGTTGGAA	589
371	GCTCCGCTACAAGTTCTGGCT	351
463	GCTCCGCTACAAGTTCTGGCT	443
576	GCCATCGCCAAGACTTACTG	557
777	AACATGATCAATGGCGGATT	758
1443	AACATGATCGATGGCGGAAT	1424
146	TGAGCGCGTAAGTTGACGAA	127
535	AATTGGAGGAGAAACAACGCTT	515
138	CTGATGCTCGCACTTCTGAA	119
565	CGTCAGCTTCGTAGATGGAGA	545
1558	TCAGAACGAAGAAGCTATCGC	1538
288	CACGCCTCTCAACATGCCAA	269
729	TTGATGATTGCCAAGGTACTTCT	707
283	CTTCAAGGTCATCACTGAGCAA	262
87	CGACCGCTCTTGCAATTCTTG	67
166	ATCGCACACATTCTAATGGTTG	145
336	GATTCCTTCAACAGCAGCGT	317
1137	CGAATGTGTAACAATAATGTCTACTGC	1111

1515	CAATGGCTCAACAAGTTCGG	1496
365	CGATAGACACGGTACGAGAGAAG	343
667	TGACACTGAACGCTCCAACA	648
779	TGACACTGAACGCTCCAACA	760
553	GAAGATCGCTCGGCTTGGA	534
638	TCTTGTCAGTGTAGGCGTTGTAGT	615
410	TGTAGGAGCCATCGTCAAGG	391
132	CCATCTTCGCATTCTTCTTGA	112
507	GTGGTTGCTGGTGGTGTGT	488
502	GTGGTTGCTGGTGGTGTGT	483
1483	GTCCTTCATCCATTCCACCTT	1463
478	TCTCCTTGTTGTTCTTCTCCTCCT	455
368	GCTCACAACACTCGATATTGAGAT	345
604	GAGTGACTTCTGGATGGAGATAGGC	580
471	GCTCTCGGAAGGTGTAGTGC	452
206	TCCACTTGGCTGATGGTGAT	187
231	TCCACTTGGCTGATGGTGAT	212
1007	GGTGCTTCTTGTTGCTGTGA	988
800	GGTGCTTCTTGTTGCTGTGA	781
555	TTCCTGTCCAACATAACATCCTT	533
578	TTCCTGTCCAACATAACATCCTT	556
543	TCAGCGATGGCGACTTCTAG	524
845	GGTGGAGAATCGGCGGTGTA	826
856	GGTGGAGAATCGGCGGTGTA	837
517	GATCATGCTCATTGCGGACA	498
693	GCGAGCAGAGCCTTCTTCTC	674
195	CGTCTGGAATGACCTCGTGTT	175
204	AGAGTGTAGAGTGCTCCTGGCT	183
251	ATGAGCAATAAGGCGACGAC	232
241	CCGACATTGGCTGACACATC	222
203	AGTGGCTGACAATCCGTGGT	184
465	TGTGAAGACGATGATTGTGGTAA	443
795	ATATGTGATGCCGAGCCGAT	776
842	CGAACAAGTCCATCAGCAAGA	822
761	CGAACAAGTCCATCAGCAAGA	741
343	GAAGGATGTCCGTACCACTGTG	322
363	GTCCAACACTGAATCCTGTGAA	342
321	CGGCTCTCAAGAACGGTGTT	302
553	AATAACCAGGACGAGAAGGCA	533
414	CATGAGATAATTGCTTCGGCTT	393
1984	AGGACGCCTTGAACCTTCTCA	1965
352	TGACCAGTTGAGTTCCAGCA	333
352	TGACCAGTTGAGTTCCAGCA	333
301	AAGATCCAGAATACTCAGGTTGTTG	277

350	GCTCTCGTCGTTAGATCACACAA	328
381	TTGACCGTTAACCAACCGAT	362
157	CGCTTAGGACACATTGGAGGT	137
375	AATCATTGGACGATAGTACCGAA	353
480	CGGTAGGCAGATGGTGAGAA	461
124	TCCTTCCTTGATTCTATTCATTCG	101
1737	GAAGAACGGACGGCAGCAAT	1718
130	TTGCTATTGGAGGCGGTAC	111
702	GGAGATTCTGCTCATTGAAGGTG	680
349	TTCAACTTCTTCCTGCTTCCTC	328
1008	GATCTAGTCGTGTCAAGTTCTTCAGA	983
813	GGTGGTGGTAGATTGCTCGGT	793
1148	CCGCTCTCCACCATTGTTGA	1129
1148	CCGCTCTCCACCATTGTTGA	1129
1148	CCGCTCTCCACCATTGTTGA	1129
155	TCAATACAATAGATTGAATTGTTCAAGA	128
215	ACAGCAAGCAGCTCCATGTC	196
215	ACAGCAAGCAGCTCCATGTC	196
2990	GATGGAACAACAAGCGATGC	2971
113	ACTCCGTTGTGATCGATGCA	94
467	CGATCAGAGTGTGTTGACATTGAAG	443
182	GCTGGAGACGAAGATAACGATG	161
1066	GTTGCTCGCCTTCTTCCATT	1047
1144	GTTGCTCGCCTTCTTCCATT	1125
722	CTCATTGCGTTGACCGATTG	703
392	CTCTCCGATGGTGACAAGGT	373
649	CTCTCCGATGGTGACAAGGT	630
4735	GACTGAATGTGCAATGAGCCA	4715
399	TGAATTGTGAAGCGGCGTAA	380
400	TGAATTGTGAAGCGGCGTAA	381
472	ACAGGATCTGTGAAGCCGAA	453
173	TCTCCTCCTCGTTCCTCCTG	154
83	GCTCCTCCTCGGCTCCATCT	64
159	TGGTCGTGAGAGTCCTGGCT	140
1923	CCAAGATGTCTGACAACAACATGACTT	1897
1166	CCAAGATGTCTGACAACAACATGACTT	1140
992	CCAAGATGTCTGACAACAACATGACTT	966
643	ATTCGAGTTCTTCAGCATTCAAC	621
643	ATTCGAGTTCTTCAGCATTCAAC	621
923	ATTCGAGTTCTTCAGCATTCAAC	901
462	TGCCAGCAGAGCAATGAGAA	443
462	TGCCAGCAGAGCAATGAGAA	443
189	TGCCAGCAGAGCAATGAGAA	170
189	TGCCAGCAGAGCAATGAGAA	170

381	AGTGTCCGTCCTTGAGAGTGAA	360
538	AGTGTCCGTCCTTGAGAGTGAA	517
444	TCTCTTCCTTGGCGTCTCCTC	424
444	TCTCTTCCTTGGCGTCTCCTC	424
855	CGTGATTCCATTGTTGACCA	836
855	CGTGATTCCATTGTTGACCA	836
169	ATGTGTTGAATGAGTCGTCGTC	148
5891	GTTGCTGGCTGGTTGGTTGT	5872
684	CGATGAGAATTGTACCAATACCGA	661
1567	TATCACGACGGAGCACATCA	1548
501	GTATGGAGATTGAAGAGAGAAGTCG	477
216	GGTTGAATGAAGAGTGGAGAGACT	193
1417	GCTCTTCGTGTCGGAGATGA	1398
1468	GCTCTTCGTGTCGGAGATGA	1449
1291	GCTCTTCGTGTCGGAGATGA	1272
1295	GCTCTTCGTGTCGGAGATGA	1276
241	CGGCTGATAAGTGGACGTAGTTC	219
221	GAGCGGATAAGTGCGTGAG	202
133	AGGCTTCAATGTAGGCACCGA	113
168	GCGGATAAGTGCGTGAGAG	149
198	GAGCGGATAAGTGCGTGAG	179
203	ACGGCGACACAGGAGCATCT	184
248	TTGTGCTCAATGTTGGCTCA	229
950	CATTCGGATCATTCCGATCA	931
328	CATTAGTGCCTCTTGATCCTCAGTAG	302
328	CATTAGTGCCTCTTGATCCTCAGTAG	302
751	CATTCGGATCATTCCGATCA	732
916	TCTACGACGACGATGATTGTGT	895
784	TCTACGACGACGATGATTGTGT	763
919	TCTACGACGACGATGATTGTGT	898
649	TACGACGACGGTGGTTATGC	630
817	CATTCGGATCATTCCGATCA	798
717	TCTACGACGACGATGATTGTGT	696
680	CCGTGCCGATAGTTCTTGTG	661
680	CCGTGCCGATAGTTCTTGTG	661
176	CTCCAACAGCACACTTCCACT	156
978	CTTGAGAGTTGGCAGCGATG	959
332	TACTCATCCTCCAGCCGACGA	312
170	ACAACGACTTGCTCAATGCTAAC	148
124	TGTTCGCCTCTTCACTACC	105
141	GTGGAGACGCAGAACAAAGCAG	121
166	CCACCTAGTGTAGGCGTCACG	146
410	CAATGACAAGTAGGTAACGAAGAAGA	385
534	CAATGACAAGTAGGTAACGAAGAAGA	509

473	CAATGACAAGTAGGTAACGAAGAAGA	448
410	CAATGACAAGTAGGTAACGAAGAAGA	385
534	CAATGACAAGTAGGTAACGAAGAAGA	509
473	CAATGACAAGTAGGTAACGAAGAAGA	448
534	CAATGACAAGTAGGTAACGAAGAAGA	509
340	ATGACTGCTGCCGAGAGAGT	321
559	ATTGAGTGTGCTCTTCATTCATCTC	535
510	CTCAATGTCTTGTCCGACTGTAGT	487
779	AAGCAAGACCAACACGGAATG	759
316	CATCAATCTGGACACGCACTG	296
276	CATCAATCTGGACACGCACTG	256
536	GAGGTGGAAGTGGAGTGACG	517
598	GTGTTGAGAACCGCCTGCTT	579
597	GTGTTGAGAACCGCCTGCTT	578
374	GTGTTGAGAACCGCCTGCTT	355
875	GTGTTGAGAACCGCCTGCTT	856
186	TCGGAGAACGTGACTCACATC	166
877	CGCACGATACGTTCTTCTCG	858
661	CAAGAGATTGCGGTGAGTCG	642
933	TCCAACATTCCGTCTTCCAA	914
90	TTCGGACCATTTCATCAGAAAGTTAG	67
419	GCCATTAGTCGCATGCAACT	400
522	TTCGTAAGTGAAGTCTTCGGTGA	500
544	GCTGTTCTCAATCTCTTCTCGCT	522
455	CACACGTACATCATATCTTCGTTGT	431
477	TCCATCATCAGCGACCAAGA	458
399	AACTGAACTTCCGTCTGTCCAC	378
490	GGAGAACGAGGTGAAGCAGTC	470
407	TCATCAACATACTCGTCTAATTGGTAAC	380
671	TGTATGTTAATGTTGACAGTTCTCGTT	645
323	CGGAAGCGTCAGCAAGTACC	304
1077	CAATCTGTTGCAATTGTTGAA	1056
199	TAGAACTCGCGGAGCCATGT	180
599	CGTTGTTGTAAGTCTGGAGAGAAGC	576
130	TTCGATGATGCAAGCGTCAC	111
159	GGCGTATGGAGTGTCTGGTG	140
108	CTGGAGAAGATTGTCATTGCG	88
410	GGATCGGCATGGAGATAACTTC	389
578	CAAGTGCATACTTCATAACTTGAGATG	552
1141	TTCTCAATACCTTCGATATCCAGAT	1117
993	GGATAGACGAAGCACAAGAGCAA	971
330	GGATAGACGAAGCACAAGAGCAA	308
363	ACCACGACGAACGACGAACC	344
829	TTCTTGGAGTTGAGACATCACTGT	806

267	GAGTATGAATATGGTGGCTTATCCG	243
514	CCACTGATAGCACTGGAAGTGTT	492
180	CCATCCAAGTATTCGATCTTGACAT	156
300	AAGAACTGCCAGGTAAGCGA	281
419	GATAATGTGGTTGTGCTTGGC	399
567	ACGACGACGATCCTTACGAGAT	546
3060	TCTGCTGAACACTACTGGTCTCC	3038
580	GCATCACGAGGCTCACATCT	561
897	CGTCTTCGTAGAGCCAACCG	878
548	TCATCACATCCACCACTCCA	529
309	CACAGTTATCATTAGTTGAGTTATTGGC	282
307	CAGTTATCATTAGCTGAGTCACAGGT	282
778	AAGTTACATTCGTTGGTTGAGTTG	755
101	CGATTCAATAATTCCACACCATT	79
432	TCTTACAGAGACACCTTAGGCTGAT	408
400	TCTTACAGAGACACCTTAGGCTGAT	376
400	TCCTTCTCCTCGTCTTCAA	381
640	CGATTAGCACACGATTCTTCTTC	618
1036	TTGATAGTCTAGTGTGGCAGATTCC	1012
273	AGCCATGCTCAGTGAACCTGA	253
242	GACGCACAATTAGGCCAGGAG	222
244	TTCGTTTCGACGTACTCCACTT	224
235	CATACGAGCTCACGATGACG	216
288	TTGTAGGTGTCGCCATCACG	269
426	GGAGCTGATCATCACGTATGG	406
233	TCGTAGGTACCAATGATAATATAAGGAG	206
545	ACTAGGTGTTGAGCCAATGGTAA	523
161	TTAATCTCACTGTTGTTGTCATGGAA	136
1096	GCCTTGTCTCCTTGTTCTAGT	1075
153	GTTGTGAGTAACCAGGAGCATCT	131
1405	GCTGGAGAAGGCAATGAAGA	1386
533	GGTGGTTCCTGAAGTGTAGCA	513
542	GGTGGTTCCTGAAGTGTAGCA	522
411	CCAGGAAGATATGTGATTGTTGAG	388
1121	AGTCATATCGGTGTACTGCTTCTG	1098
1152	AGTCATATCGGTGTACTGCTTCTG	1129
370	TTGGATTCAGTAGTGGAGAGCA	349
383	GTTGCTTCACGGATTGTTGG	364
187	GATTATTCGGTGGATGTTGTGAC	165
247	GATTATTCGGTGGATGTTGTGAC	225
138	AATGCACTTGTCGGATGTCA	119
1590	CCATCCATCAACCATCTCACG	1570
1590	CCATCCATCAACCATCTCACG	1570
127	GGTCATGGAGACGGAGGTAA	108

211	GAGCCAATCCTACCGACGAA	192
112	GGATCCGACGACTGATCGAT	93
112	GGATCCGACGACTGATCGAT	93
711	GCCTTCTCCTTCATCTCCAGTT	690
119	TGATTGATGCCACTATGAACAGAGG	95
314	GCCAGGTTGACAATAATCATAATAGC	289
874	CTTCGGTCATATTGGTGGATTTC	853
1382	CTGTTGCCGAACACTGCGAT	1363
789	TAGGCGTAGGCGAGAGAGTG	770
173	TCGGATCGTCTGAGCAGCAT	154
852	GCCGAATGTAGACGAAGGTG	833
961	GAAGGTTCAGAACAGATTGGTCA	939
141	GGATCTTATCGGCGTGTAGGT	121
168	TATATAGTCCTAATTGGAGGCAAGG	144
995	CCAACTGACGGTCAGAAGTGAT	974
125	CGGCGTCGAATTACTTGTGC	106
131	CCTGTTGTGCGCAGTAATCC	112
244	CATCCGTCACAATAACTCTTCCA	222
401	CATCCGTCACAATAACTCTTCCA	379
129	GTCCTCAACTTCGCATCTCAA	109
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129	GTCCTCAACTTCGCATCTCAA	109
129	GTCCTCAACTTCGCATCTCAA	109
130	GTCCTCAACTTCGCATCTCAA	110
955	CAGGAATGATGATAACGAGATGC	933
236	GATTGAGGCGTGGATTAGGA	217
141	GACACGGAGGAGTAGCACACAC	120
172	GATGCACTTCCACCGCAGAA	153
299	TTCGTTTACAATATAACCTTCATCA	275
1031	AATCCGTCTGATGTAGCAGCCAT	1009
1031	AATCCGTCTGATGTAGCAGCCAT	1009
287	CGTTCAGTTCGTAGTACAAGACAGA	263
332	TCAGTTAGATCGTTGATAAGTTCCAC	307
192	CATCAGATCACGTACCGTCTCACA	169
129	TGACTCGAGCTCCTTGTTACAG	108
702	CCATCTGAATCCGTGACTCG	683
2194	GGTGTACGAGACGGAGAACG	2175
702	CCATCTGAATCCGTGACTCG	683
771	GCATCATCTCCTCTCATAACACC	749
880	TCGGAGAACTTCTGGTAGAGATTTC	857
1245	TGAATGGATGGACAACACCGT	1225
1245	TGAATGGATGGACAACACCGT	1225
240	CGTTGGTACATTATACTGTAAGCACA	215
307	GTGACGGTCCAGGCAGTTCC	288

276	GCTCTGATCCATGTTGAAGGC	256
1353	ATGAGTGCTGCATCCTTGGC	1334
1014	GATTGTCTTCTCTCCAGTGCGT	993
1013	GATTGTCTTCTCTCCAGTGCGT	992
1112	GATTGTCTTCTCTCCAGTGCGT	1091
336	TGAGGTGTATGTTGGTGTAAGCC	314
190	CCACGGATAACAGTAGTCTTCTCAA	166
346	GATGATGGTCTCCTTGATGATAGTTG	321
780	AACCGCACTATCAACATCGTG	760
147	CGGTGGAATGTCGTCTGTATC	127
198	CGGTGGAATGTCGTCTGTATC	178
133	CCTCCATAGCCACCACCATA	114
115	CAGTATTACTGCTGTCAGTGTTGAAC	90
188	AATGTCTTCACTCGAAGATCCAA	166
1088	GTTGCCGAGTAGTTGCCGTT	1069
350	TCCTCCGTATCCTCCTCCGA	331
147	TCAACATAGTTGTGGAGGAGTGG	125
558	TTGAATGTTGCAAGGTCCAA	539
123	TGGACGAGGAGCACATCCAC	104
191	CTGCTGCTGTAGATGTTGTGGT	170
762	GAATGATCCAGAATGAAGAGATGAGAT	736
917	TTCTCCTGGACCACATCTCAGA	896
194	TGCAAGTGAATGTTCTCCAA	174
198	GACGACAGATGAACCAACACC	178
222	GCATCTTGTGAGAAGACGAACA	201
171	GAATAGCTCCACCATTACACAGAA	148
187	AGCATCTTCTGGAGACATACAACA	164
197	AGCATCTTCTGGAGACATACAACA	174
198	AGATGTGGACGATGAGGATGTAC	176
245	TGTAGCAGTAGTAGCAGTTGTTGTTG	220
234	GCTGTGGAAGATGAGGAGTTGC	213
234	GCTGTGGAAGATGAGGAGTTGC	213
752	GGATTCTGATACTTGTCGTTGGA	730
285	CGGATGATGTGGATGAGCAT	266
264	GCAAGAGCAAGATAATGAACACAA	241
799	CCAGAGAGGAATTCACGCAA	780
559	CCGACGAATAGATACGACGAA	539
256	TCGACACTTCTACATGTGCAGCA	234
782	GACATATCATCCATCTGAAGAATCG	758
3626	TCGCATCCTTGAGCCACCTT	3607
1346	TCGCATCCTTGAGCCACCTT	1327
1363	TCGCATCCTTGAGCCACCTT	1344
414	AGAAGAATGAGCAGGAAGGAGA	393
414	AGAAGAATGAGCAGGAAGGAGA	393

119	AGAAGAATGAGCAGGAAGGAGA	98
577	TTCTTCTGGAGCGTTGTTGTC	557
1215	TTCGTCCGCTTCATCGTCTG	1196
128	GATGGACGCTGGTGTGGAG	109
631	TGAACCATACTCGGTCAAGAGTT	609
994	TTGGTCTCGTCTGGATAGGC	975
1197	CGAAGATGTGGATGGAGAGATG	1176
257	TGATAGTACCGAATATTATCATTCAAA	230
158	ACGGACAAGTTCTGGATGAAGC	137
3324	TTCAGGTGTCAGTGTGTTCCA	3303
3011	TCTCCTCCATCGTTGCCATC	2992
2389	TTCAGGTGTCAGTGTGTTCCA	2368
2758	TTCAGGTGTCAGTGTGTTCCA	2737
2377	TTCAGGTGTCAGTGTGTTCCA	2356
2746	TTCAGGTGTCAGTGTGTTCCA	2725
3336	TTCAGGTGTCAGTGTGTTCCA	3315
1347	ACGTTCTCCGATTGATTGC	1328
206	AGCCAGCAGACTGTGAGGTT	187
1244	GGCACGACGAGTTGTTGGAT	1225
1244	GGCACGACGAGTTGTTGGAT	1225
1250	GGCACGACGAGTTGTTGGAT	1231
730	TGGATGAGATGATGAGAGATGG	709
484	AGCAGACAAGAGCATAGTAACCG	462
463	AGCAGACAAGAGCATAGTAACCG	441
483	AGCAGACAAGAGCATAGTAACCG	461
749	CCGAACAGAACGACATAAGAGAT	727
180	CCAGTCGGAGGTGCTTGTTT	161
427	CGGCTATAAGAATAACACAATTCG	404
196	AGCCAGGAATTGCTTCAACA	177
215	AGCCAGGAATTGCTTCAACA	196
1449	GATTGATGACCAGATACTTGTTGATG	1424
1449	GATTGATGACCAGATACTTGTTGATG	1424
1449	GATTGATGACCAGATACTTGTTGATG	1424
746	TCACTGAGATTGAGGAGATGGAAGA	722
140	TGCGTAGTCGTCGGTTATCC	121
140	TGCGTAGTCGTCGGTTATCC	121
767	GGCTGGTGCTGGCTCGTTAC	748
187	GGTTCAGTAAGACGGATTGGATA	165
444	GAAGTCAATGATGACGTCAAGTTCT	420
460	GAAGTCAATGATGACGTCAAGTTCT	436
459	TCTGACATTGGCTATGTTGGTG	438
459	TCATTCTCGTTGGTTAGGTTCTC	437
172	CGGAGGTGGATACTGTGAGG	153
158	AGAGTTGAACGGAGTTCTGGAG	137

508 TTGTACCACGATTGGAACGC	489
460 TTGTACCACGATTGGAACGC	441
186 GAGGCATCTCCGCTTCCATT	167
248 GAGGCATCTCCGCTTCCATT	229
248 GAGGCATCTCCGCTTCCATT	229
213 GAGGCATCTCCGCTTCCATT	194
128 TTGACGTGAGTCCTCCAACG	109
248 GAGGCATCTCCGCTTCCATT	229
213 GAGGCATCTCCGCTTCCATT	194
128 TTGACGTGAGTCCTCCAACG	109
186 GAGGCATCTCCGCTTCCATT	167
248 GAGGCATCTCCGCTTCCATT	229
832 GGTGAGTTGGCGAATGCGTT	813
433 GTCACGGCAACGGTAGTAGTAAG	411
274 TGATGAGAGCGTCGAGAATCATAG	251
340 TGATGAGAGCGTCGAGAATCATAG	317
858 ATGTGGATCTGATAGACGAGCAT	836
126 TCGAGAAGTTGTGAGTACAAGTGC	103
206 GACGCTATTGTAGTCTTGATCAAGG	182
85 CACAGCCAGGATTAGGATGC	66
146 CACAGCCAGGATTAGGATGC	127
159 GCTGGCATGGATGACGACTTAG	138
2214 GGCACCACAACCAGATGATGA	2194
2214 GGCACCACAACCAGATGATGA	2194
2645 GGCGAGTAGATGATAGAGATGTGA	2622
2775 GGCGAGTAGATGATAGAGATGTGA	2752
310 AGAATAGCTCCAACGACTCCAC	289
348 TCCATGAGCGTCTATAATTCCAT	326
196 CATCATCACTCATCATGTGCAA	175
365 GCTGTGCTTGTGGTTGGAAGTTC	343
492 TGCTTGTGGTTGGAAGTTCC	473
430 TGCTTGTGGTTGGAAGTTCC	411
143 CGACTACGACGGCTAGACTTCC	122
216 ACCATTCTGCGTTGCTCCTC	197
233 AGTACATAAGCCATTATTGAACTTGC	208
3746 CTTGGACAGGTGGAGAGTGC	3727
136 AATGCACTCAATTCATCAAGCCT	114
131 CGTCTCCTATAATTAATAGGTGACGTAA	104
1040 GCTTGCGGACATCTACATTGAG	1019
799 TGATTGTTCCGCTGAACCATT	779
642 TGATTGTTCCGCTGAACCATT	622
1526 TCTTCCGAGTAAGATGAGCAACT	1504
1466 TCTTCCGAGTAAGATGAGCAACT	1444
99 AACTGGCTCACCTACAACCG	80

759	TTGAGCAGTTCTACGAATTGCTAA	736
422	GCAGGTTGGATCTTCCTCTGG	402
560	CGTTGGCTTGTCCGACTTGT	541
476	CGTTGGCTTGTCCGACTTGT	457
540	CGTTGGCTTGTCCGACTTGT	521
563	CGTTGGCTTGTCCGACTTGT	544
524	CGTTGGCTTGTCCGACTTGT	505
450	CGTTGGCTTGTCCGACTTGT	431
529	CGTTGGCTTGTCCGACTTGT	510
480	ACAGTGTGATAGGAATGATTGACG	457
540	ACAGTGTGATAGGAATGATTGACG	517
135	TTCGTCGCCATACTTAAGCG	116
143	CTGTATGGTGCGACTGGCTA	124
1316	CAAGTGAGCACAACCTCGGAA	1297
451	AGCACCACCATAACTCTAACCGA	429
87	TACCTGACGTATGGCGATGG	68
121	CACCGAGAGTGAGAGAGACCA	101
123	GCCGGCACTCTTCACCGTTA	104
814	TGGCGAGTTGTGCTCCGTAT	795
1348	CGTCTTCGTCAACTTCAGTATATTCGT	1322
173	CATGCCACTAATGCCAATGC	154
1348	CGTCTTCGTCAACTTCAGTATATTCGT	1322
270	CGTAACATATTCTACCGAGTTGACC	246
401	CCTTCCAGGTGTCCAATCAG	382
137	AAGAGCATGCCAACTGTCCAATC	115
309	GGCAACGGTAAGAACAAGGTC	289
297	AATACAGCAAGGAACGCAACA	277
174	TGGAATCATTCGGTGTTCCG	155
275	CGGAACGGATAGATCAAGGC	256
504	CTCGTTGCTCATCTCCATCAG	484
534	CTCGTTGCTCATCTCCATCAG	514
173	CACGGAATAGGATGCTCGGA	154
441	CACGGAATAGGATGCTCGGA	422
763	CACACATCCGATCTCACATCA	743
1350	TGCCAGCCTAATCATTCAACA	1330
124	GAAGTGATTGTCCGGCACTG	105
1839	AATGTTGGAGACGAGAGGAATG	1818
632	TCCAACGGTGGAACCTCGTAA	613
2110	CGTAGGATCGGTCAACTGCT	2091
251	CCAGCCTTCATCTCAACGGA	232
184	CCGACACTTCACTGGCATTG	165
1130	TTGTGGAAGTAGCCGTCGTT	1111
1113	CACCTCATCGCCGTTGTAAG	1094
235	CGAGTCTGGAATAGTGCTGAAGGA	212

903	TAGCATCCTTGGCCTTCCAG	884
258	CACCTCATCGCCGTTGTAAG	239
710	TAGCATCCTTGGCCTTCCAG	691
1113	CACCTCATCGCCGTTGTAAG	1094
235	CGAGTCTGGAATAGTGCTGAAGGA	212
692	ATGTCCTCCGTCTCCACCAA	673
694	ATGTCCTCCGTCTCCACCAA	675
447	ATGTCCTCCGTCTCCACCAA	428
134	CCTCCTCTCCTCTCCACTCC	115
181	AACGTCCGCCATTCAACTTC	162
206	AACGTCCGCCATTCAACTTC	187
373	ATTGTCGCATCCGGTCAGCT	354
818	TCCTTGAACGAGTATGCTGGT	798
122	TCATTGACATCTACAAGACAGAAGC	98
202	CATACAACTCCATACGCTCCTTC	180
202	CATACAACTCCATACGCTCCTTC	180
504	CTCTCGCCAGTCGGATAACG	485
489	CTCTCGCCAGTCGGATAACG	470
652	CAGGTGTGTAGATGTCAAGAGCA	630
652	CAGGTGTGTAGATGTCAAGAGCA	630
272	TCAGAATCATCGGTCAACGC	253
937	AAGTGTTGCTATCACTGAACGACAA	913
839	CGCAGGTGGAGGTAGAGGTT	820
315	ACTTGATCCTCCTTGTACGCA	295
871	CAGCCATCACTGGAGCAAGT	852
467	CCACGAAGAAGAATGTAGTTGGT	445
580	CGACAAGAGCACCACCGATG	561
127	TCTGATGCCTTCCGTGAGTAG	107
193	CCACCGTGACCATCATAGACA	173
1258	TGAACTCGTCCTCTGGTGTGA	1238
282	GTGTGAAGTCTCCACCTTGAATC	260
436	TGGCGAGAAGAAGACCGACT	417
1988	TGATTCTCCGACTCCTCCGA	1969
1422	TGATTCTCCGACTCCTCCGA	1403
246	TGGCGGAGATTACAGCAGTT	227
985	TTATCCTCCACTACCATTGACTTG	962
238	TGGCGGAGATTACAGCAGTT	219
864	GGTACCGAGTGGAGAAGCAA	845
392	CGAAGCTCCTGATTCCACTG	373
912	GCGTCATTCTTCCAACATTATCG	890
849	GCGTCATTCTTCCAACATTATCG	827
912	GCGTCATTCTTCCAACATTATCG	890
849	GCGTCATTCTTCCAACATTATCG	827
912	GCGTCATTCTTCCAACATTATCG	890

849	GCGTCATTCTTCCAACATTATCG	827
778	GCGTCATTCTTCCAACATTATCG	756
849	GCGTCATTCTTCCAACATTATCG	827
824	GCGTCATTCTTCCAACATTATCG	802
124	GAATATCTGCATCCTCACCTCTG	102
149	TCGTCGCCACAATCGGTAC	130
287	GACATCAACTCCTTACCGCAA	267
467	TGGTTCATTGGAGAGATTGGA	447
467	TGGTTCATTGGAGAGATTGGA	447
304	CTGCTCATCGTGGTCGTGGA	285
2285	GAAGATCAGATCCGATGTCTCC	2264
128	CAGCGTCAGTAGAAGACTCGGA	107
281	CGAGCGGTGATAACATCTGTC	261
1280	TGTCTGAGACTCGCTTGGATC	1260
1263	AATCCAGGTGTTCGGCTGAA	1244
143	TGAATACATAACCAACCGATCATCT	119
285	ACAATCATTGCCGATTCCAG	266
375	TCCGAGACGCTGCCTGTTAC	356
100	CAATAGCAGAATTACAAGTAATTCCAA	74
865	ATCCATCGTTGAACATTAGCATT	843
525	CCATGCAAGATTGTTGGAAGA	505
608	TCAGCGGATGTCGTCTCTC	589
1353	CGGAGTTGTCTCGTCAGCGT	1334
687	CGGAGTTGTCTCGTCAGCGT	668
147	TTCTATCTGCACAGGCTCCGA	127
223	TGATGATTAGGTGACCACGGA	203
468	CGATCTGATGTTGCTTATAGAGTCTG	443
262	CAGAGCAGCCATCTTGTTCA	243
176	TCAATGTATTCCGCAGGAGAA	156
217	TTAACACAGTACATCCATCTTGTTCA	192
217	TTAACACAGTACATCCATCTTGTTCA	192
526	CAGGTAGATGTGCGGTGGAA	507
1178	GGAAGAGGCATCACGACCAG	1159
165	GAACCAGTTGTTGAGCGGT	146
318	GCAACCGTTCTCTTCAACAGTCA	296
377	GTGGAAGCTCTGCGATGAAG	358
587	GGATTCTGTCGTAGTGTCTGTGTT	565
980	CGTTGGCATCAATCAGAGCA	961
606	ATCCTCCGGCAGCTCTGATG	587
342	ATCAGTCTCCATCAGGCATTG	322
546	ATCAGTCTCCATCAGGCATTG	526
304	CCACGTCTTCTTGCTCTTCATC	283
761	TCGTTGAGATTCGTATTGTCGTT	739
391	TTCTCGGTGTTCAAGTAATAAGGC	368

525	AATAATCTTCTACTGCTCAATCTGCTT	499
258	CCAAGTGGCAACATTCTTCAAG	237
240	CGTGGCAGGTAGCAGTAGTTC	220
502	CTAGATCAGCGGTTCTTCGTAGA	480
2427	TCGCAGTATGACTCCACTTGATG	2405
940	TGGTAGTTGTAGTGTGAGATGAAGCA	915
1096	TGGTAGTTGTAGTGTGAGATGAAGCA	1071
144	GCGGAGCCTTGTCAACTCAT	125
146	GAGAAGAAGAAGCAGTGGCAA	126
251	ACAACCATACCTAACACAACCTGA	228
175	GCTCTGATGGACGGTGTGT	156
198	ACCATACCGAACAGGCATCC	179
244	TTGACATACAGGAATAGCATCGG	222
127	TTGACATACAGGAATAGCATCGG	105
528	TTGTGGTGGATGAGTGGAGAA	508
1832	CGACTGCCACCGATGAACAC	1813
140	GCTGATGGATGTGTTGGTTGG	120
765	AACTCCATCCATTGTGAATAGATTG	741
765	AACTCCATCCATTGTGAATAGATTG	741
447	CCTTCCTTGTTGATGACGGT	428
188	GAAGCGCCACTCTCGGAGAT	169
110	AGCACGTCTCGGAGTGTAGAGT	89
93	TTCGCTTGTTACAGTGCTAGCC	72
171	TTGTTGTATCTGCTATCGAATGAAG	147
145	GAGGTGAAGACAGCGACAGC	126
165	GATTGTGTTAGTGTTAGTCTTCAGTGC	139
1260	TGCCACCTGTTCTAGCCATT	1241
438	ACAGATGGCAGAATCAAGACCT	417
1260	TGCCACCTGTTCTAGCCATT	1241
155	TGACGACGATGCTCCAGAAG	136
1299	GACGGAACAGATTGATGAGGA	1279
1835	ACTGGTTCCTGTGCTACTAATGC	1813
191	TTCATTGGAGCGATCAGTCTC	171
135	TTCATTGGAGCGATCAGTCTC	115
166	TTCATTGGAGCGATCAGTCTC	146
901	AGTTGTTGAAGGATGGTGAATATGG	877
330	AGTTGTTGAAGGATGGTGAATATGG	306
493	ATGGCAGAGACTTCTTCAGGAG	472
550	ATGGCAGAGACTTCTTCAGGAG	529
227	CCTCCGATTACTCCTGCTTG	208
115	AACTTGAGAGCCATTGCTGATG	94
150	GCATCACAGGAATTGTATTCAACA	127
185	TGGTTGAGGAGACAAGCCAT	166
290	TGGTTGAGGAGACAAGCCAT	271

223	CGAACGAGTCAACGCTGTCT	204
128	CGAACGAGTCAACGCTGTCT	109
403	TGTGTTCTCTCGGTCTCGTTC	383
222	CCATTGCTTGACACATCCATTG	201
272	GTACCATGCGTGACGTTGTG	253
175	GCTGGTGGATCTGGTGCTTG	156
360	CATTCAGGCGGCATTGTGTG	341
603	GCATTCTCTCGCAGTCTTCAAG	582
1019	CGGACATTGCGTGAATCTTG	1000
610	TCGGATTGTCTCATAATGTTGG	589
434	TCACATACACATCTGTTATGAGAGGA	409
1788	AAGCATTGCGATATGGAACC	1769
270	AAGCATTGCGATATGGAACC	251
128	CACCGGCCAACGAATAAGTG	109
121	GCACGAGCAACGAGTTCAGA	102
141	AAGGTACGGTACTTGAAGATGCTT	118
379	GCCTCGATCTTCTCGCAGAA	360
357	GTGCAGTTCTGTCATCAATATCTGT	333
555	GTGGCGGCAAGAGAACCTGT	536
644	AGCCACTTCATCACTCTTCCAG	623
349	CTCATCCTCACCAAGTTCCAA	329
5527	TCACTCCACGCTGTCTCTTCT	5507
5332	TCACTCCACGCTGTCTCTTCT	5312
5459	TCACTCCACGCTGTCTCTTCT	5439
468	GGTTCCGTCATGTGTTGAGG	449
201	AGTTGTCAGCGTCTCCTTGG	182
272	AGTTGTCAGCGTCTCCTTGG	253
124	CAGGACCATCCTGACGAGTT	105
158	GGTTCCAAGCACATTCCAGA	139
456	GAAGTCGCTGAACAATGGCA	437
723	GGAATAAGAGTGTGAATCGGTGA	701
730	TCCAATCTCCAATTCTCTCCAA	708
161	TCCGAACGACTTGTTATTGTTG	140
262	GTGAGCGACAACCTCGCAAGC	243
1441	TCAGAACGACGAAGGCACAA	1422
1869	TCAGAACGACGAAGGCACAA	1850
1138	TCCAGCAGTTATAGGCACCAA	1118
296	GGCACTTCATACTCAACAAGACCT	273
132	ATTCTGAACAGTTCTGGCGAA	112
280	CTCTCCAATGAGCTGATTCTCAGT	257
817	TGAATGCGAATGTAGTTGAAGG	796
689	AGAGGTGAGATGGTGAGACGAT	668
262	GTGAGCGACAACCTCGCAAGC	243
184	CATATTCTCCTTGTTGCTCTGTGT	161

184	CATATTCTCCTTGTTGCTCTGTGT	161
262	CAGCGTAGTTGTTGGCGTTA	243
274	CAGCGTAGTTGTTGGCGTTA	255
151	TACTCGGTGCGTCCTCCAAT	132
293	TGAGCAGTGACAGTGTCTTG	273
386	CAGAGATCATGGTACATACAACATTGG	360
1760	GGAGAACGAGATTGAAGTGATTG	1738
1368	GGAGAACGAGATTGAAGTGATTG	1346
398	TTCACCATCGGCTTCTCACT	379
1109	GGAGTCAGTTCGTAGATACCAGAGA	1085
1351	ATGGTTGTTGATGACGAAGCA	1331
818	ATGGTTGTTGATGACGAAGCA	798
1139	TGTTGGCAAGTGGATCTATTCG	1118
1139	TGTTGGCAAGTGGATCTATTCG	1118
332	TGTTGGCAAGTGGATCTATTCG	311
436	TGTTGGCAAGTGGATCTATTCG	415
908	GATCCGCAAGTCTAGGTGAAGT	887
293	TCTCTTGGTTGTGACGACGA	274
400	AGAAGAGAAGTTGTCTGGATGATGC	377
399	GCCTGTGTTGGAAGATGTCG	380
717	CGAGTTCTTGAGAGACGCA	698
516	CAGTTCACAATCGTCGCCTT	497
1854	AGTGGCTTCAGCTGCTTCAC	1835
1854	AGTGGCTTCAGCTGCTTCAC	1835
439	GTTGACCACCGACTGACACC	420
126	TGGAGTCACCTGGAATTGATC	106
696	ATCCAGACGAGTCCAAGCGA	677
904	GGCTCAATTCGATCAGGTCCT	884
229	AGGAGCTGATCATCACGAATG	209
759	TTCTCTGATGGTCGGCGGTT	740
858	TTCTCTGATGGTCGGCGGTT	839
258	GTCTCGATCTGTCTGGAATCTTCT	235
286	ACTGAGGAACTGAGCAGGAAGA	265
247	GCATCCATTCCGACTTCAA	228
365	GCATCCATTCCGACTTCAA	346
341	CGATGTGGAAGTGGAGATTAGG	320
270	CGATGTGGAAGTGGAGATTAGG	249
434	GCGGTGGTCAATATGCGTAA	415
942	CCAGTTCTACCAGGTCCGAA	923
463	GCATTGGTGAGTTGGCTAGG	444
290	TTAAGGTATGCATTGGAGCTTGA	268
211	AATCAGTGCAGATTGTGTGGTCA	189
1030	CCAATAGAGCAAGACGGACTG	1010
142	CCATATCCGTGTGACTCAATGTTAC	118

1373	GCGGCTGTTGAAGATGAACT	1354
1367	GCGGCTGTTGAAGATGAACT	1348
717	GGCATTGCGTTGTAGCAGTT	698
121	GACGATTGAAGGCTCCACGA	102
496	CCAGTCTCTCGCCAATGAAC	477
1103	GCCGTGCTCTGTCATCAATC	1084
1100	GCCGTGCTCTGTCATCAATC	1081
1235	GCTTCTGATATCTAGCTGGCACTT	1212
1317	GCTTCTGATATCTAGCTGGCACTT	1294
1482	GCTTCTGATATCTAGCTGGCACTT	1459
410	GCTTCTGATATCTAGCTGGCACTT	387
1267	GCTTCTGATATCTAGCTGGCACTT	1244
855	GATAAGAATGGCGACAAGCG	836
167	TTGTGAACACAGTCAGCAGGTT	146
194	GAATCTTGTAGATGCTGACGGAT	172
194	GAATCTTGTAGATGCTGACGGAT	172
632	CAAGAGTCATATTGAACATACAAGGCT	606
256	GTGGTGGTGGAGGAGGAGGT	237
3785	TTGTGATTGATACTGGTGTGTCTC	3761
424	TTGAAGACGTGACCGAGGTG	405
424	TTGAAGACGTGACCGAGGTG	405
887	CATGCTCCGTATTATCGTATGGT	865
841	CATGCTCCGTATTATCGTATGGT	819
880	CATGCTCCGTATTATCGTATGGT	858
871	CATGCTCCGTATTATCGTATGGT	849
881	CATGCTCCGTATTATCGTATGGT	859
163	CGCAGGAGACACCTGAGCAG	144
248	ATCCGACTGAATTAGTGATGAGC	226
248	ATCCGACTGAATTAGTGATGAGC	226
155	CTGTCCTCATGTGCGCAGTC	136
122	AGGTAGTGAACGAACTGCCATAC	100
448	GAAGAGATGGAAGCATATGTCCTAA	424
340	GGATCAAGTTCAAGTGTGTAGCAT	317
127	GACATACAGCTATAACACCTCACAAGA	101
124	TGTTGTCTAGCACCAAGAGCCA	103
147	AGTGGCAGCCGACATCTCAC	128
186	TGTGCGAGTTGGAGTGAGAA	167
132	GAATAGAATCTTATGAGGTCTTGAACG	106
240	CGATCAGTGAGATCCGAAGC	221
2665	CAGTTCCACAGTTCAGGCGAGA	2644
2617	CAGTTCCACAGTTCAGGCGAGA	2596
2549	CAGTTCCACAGTTCAGGCGAGA	2528
2637	CAGTTCCACAGTTCAGGCGAGA	2616
2665	CAGTTCCACAGTTCAGGCGAGA	2644

323	CTCGTCGCAGCACTCATCCT	304
323	CTCGTCGCAGCACTCATCCT	304
558	CCATTCATCCATCCAGACCA	539
1170	TGTAATGCCTGACAGAGTAACTGC	1147
1065	CATCAAGAATATCACCTTGAAGAGTT	1040
1108	CATCAAGAATATCACCTTGAAGAGTT	1083
174	GAGGTAATTCCGAAGATGAAGCC	152
812	ACTTCTCGGTTCAAGGTGCCA	792
1075	CTGCTGGAAGAACAACATACTCAT	1052
359	CACCTGTTGTAGCATCTCCTCGA	337
1507	GGAGAAGAGTGTTGTCTGTTGGTG	1484
765	GTTGAGATCCACGTTGAGAGC	745
892	AGATTATAAGCGATGGAATTGCA	870
283	CGCTTCTTCTATACGAGGAACC	262
304	CACCTCCGGTATAGGCACAT	285
167	GTCCACCGAACCATCCACTT	148
188	GTCCACCGAACCATCCACTT	169
2348	GATGGTTGACTATGAGATGAAGCA	2325
534	TGGCACAATATCATCGTATGGA	513
534	TGGCACAATATCATCGTATGGA	513
839	CGTGGAAC TACA ACTGACATACTCG	815
297	TGAATATGTTCA GTTGGAACACCTT	273
266	CGGCATTAAGATGGATCTACCG	245
313	ACCATCAGTGCGAACATTGC	294
1005	TCGGACCACTGAACTGTGAAGC	984
1060	TCGTTGACATTCTCGTTGA	1041
944	CCGTTCTCGAAGTCCACTGA	925
1134	TCAGATTCTTCACTCCATCGTACA	1111
400	GCTGACGGAAGAATAGCACAA	380
130	GTGATGGTCTTGGATTGACTGAT	108
174	GTGATGGTCTTGGATTGACTGAT	152
1817	TCCTCAGCCTTATCTACATTGCG	1795
364	ACTGAATCCGAGTGTTGTCCA	344
204	ACTGAATCCGAGTGTTGTCCA	184
151	CCAGGTTCTCGGACTCTGAG	132
123	AAGCGTGATTGGAAGAGTTATGTTGT	98
949	TGTGGAATGTTACAACTCTGCGT	927
137	GGACCAACAGCATCAGATCC	118
434	CGGCACATTGTCTCGTGGAC	415
836	TTCGCAGTTGATGTTCTGTCTAC	815
405	CTCTGACTCTCTCGCTCTCTGAATC	381
792	CTGATTGATGGACGACCTTGT	772
156	CCAACCATTATCCGATTCCG	137
261	TGATAGACGAGATAGGCTGATGC	239

261	TGATAGACGAGATAGGCTGATGC	239
262	TGTGGCTGGACGACTTGCTT	243
284	TACGGAGCATCATCGGAAGA	265
1366	GAAGTAGATGTTGGAGACGGAGA	1344
176	TTGGAATGGAAGTACATCTGTC	151
366	GCGTACTGTATTCATAATTCGTGATAC	340
177	TCGCATTCTGGCAGTGAGATTC	156
148	ACAGGAATGATATGGCGTGTC	128
133	GTCACAGCTCGGACATCCAA	114
152	CTCCGATGACAGCTGCAACC	133
125	ACGAATGATGTGCGCGTTGT	106
126	TTCAATGAGTTCTAACATTCGACACT	101
400	CTGGACGGAAGTTCATTAGAGC	379
140	TTCGGATCAGTGTCATCCAA	121
158	GATGCTCACTCTTCCTCTCCTG	137
260	GGCAGCAAGATGGAGATGGC	241
734	CGACCACATACATCACAGGCA	714
337	GCTAAGCTAAGCACCTTGCG	318
521	TCGAAGTCGCCAAGAAGCAG	502
474	CGCGAATGAAGTTCGTCTAGG	454
1285	TAGGTATCGCCGCTTGCTTC	1266
580	CGAAGGAGCCAAGAAGAAGAGC	559
640	GATTGGCGAGCGTCAGAAGC	621
136	TGTCTTGAATTAACGCCTTGC	116
136	GGTGTCTGTTGTTGAGCAGTACG	114
158	GGTGTCTGTTGTTGAGCAGTACG	136
181	GGTGTCTGTTGTTGAGCAGTACG	159
396	GAAGGTTACGTCGGTTAGTTGG	375
278	ACGGCAATAGCCACTTGACC	259
513	CTTATGCCGCCAGAACCACT	494
481	GCTGAAGAAGTCCGAGTGGTAG	460
1431	TGATAGATATGATTACAGGCTGGATGA	1405
492	AATAGGTAGAGTGGCAGGAGAGAA	469
762	CCTCATTGATCTTATCAGCGAACAG	738
201	GCATGTTGACAGAGAGCGT	182
254	TACCATTGACCATCCTCGCA	235
288	ATCCATCGGTTCTCGGTGTA	269
343	AGAGCATCACTTCATTGTGGAGA	321
452	TCACGTCCGACTCCAGCTTG	433
337	TTAGAGCATCGTGGAGAATATCC	315
146	CTCATTGACCGCTGTGATGC	127
343	AGAGCATCACTTCATTGTGGAGA	321
476	GTCTGCCAGGTGATGAATCC	457
897	GCACGGCTTGTAGTGTGACCA	877

138	CATCTGATTCCAGCAACCATT	118
185	TGAAGATGTAGAAGTAGATGCCGAT	161
185	TGAAGATGTAGAAGTAGATGCCGAT	161
187	CCAAGAACAGGTCAAGATCGA	167
143	CACCGAGGAACAGGTCAAGA	124
181	CACCGAGGAACAGGTCAAGA	162
159	ACAACTCCATCTGGTTGCTCA	139
173	ACAACTCCATCTGGTTGCTCA	153
189	TGCTGTGATGTGACCTGTTCC	169
130	TGGAATAGACAAGACGTAGACATAACC	104
3005	CAGAGATGGTTGACGAAGAAGC	2984
2882	CAGAGATGGTTGACGAAGAAGC	2861
3218	CAGAGATGGTTGACGAAGAAGC	3197
1917	CAGAGATGGTTGACGAAGAAGC	1896
2253	CAGAGATGGTTGACGAAGAAGC	2232
3095	CAGAGATGGTTGACGAAGAAGC	3074
2882	CAGAGATGGTTGACGAAGAAGC	2861
280	ATTCCTCGCAGCCATCAATC	261
427	ATTCCTCGCAGCCATCAATC	408
182	CCATAAGGTGCCAACCAACA	163
139	ATACATGGTGTGCGGACAGC	120
193	TGTGCCACTGGTTGATGACA	174
631	TGATGGAATTGGAATGGCAT	612
719	TGATGGAATTGGAATGGCAT	700
1269	GGTTCTGGCTCCGATGTTCT	1250
1001	CACAGTATTCCATGTAATCGTTGC	978
143	ATGTCCGCTTGCTGTTCTCG	124
248	CACCTTGTTGAGTGATAATGACATCA	223
182	ATTCAGGCGTGTCTTCGGT	163
226	ATTCAGGCGTGTCTTCGGT	207
182	TGTTCCAGCGAATCTCAGCA	163
259	GGAATAGCACAAAGTCCAGTCG	239
1184	CGTGATATTGCGTCAATGGTG	1164
309	TCAGAAGCCTCTTGCAAGC	290
559	ATGACGCTCACGGAAGTTGG	540
580	ATGACGCTCACGGAAGTTGG	561
614	ATGACGCTCACGGAAGTTGG	595
168	TTATTCTTCCTCTCTCTTCGCT	145
1070	TTAGATGTTGCGGAAGCCTT	1051
1070	TTAGATGTTGCGGAAGCCTT	1051
1102	TTAGATGTTGCGGAAGCCTT	1083
1102	TTAGATGTTGCGGAAGCCTT	1083
209	TCTGCTGCCATTGAAGTTGA	190
121	AAGTAGGCGGAGACTGGTCAG	101

575	CCTTGTCCAGAGTGAGCGTT	556
122	CGTTGAGCAAGTGCATCGGA	103
130	TCATCCACCAACTTCATCTGC	110
274	CTCACTCACGATTGCCTTGG	255
20996	AGTAGTCCATCCATCCGCTCT	20976
20996	AGTAGTCCATCCATCCGCTCT	20976
2264	AGTAGTCCATCCATCCGCTCT	2244
2264	AGTAGTCCATCCATCCGCTCT	2244
2918	GAGTTCTCCATTATCTGTCGTT	2896
2896	GAGTTCTCCATTATCTGTCGTT	2874
227	CGAATTAGGTGGAATAGATGGAA	205
205	CGAATTAGGTGGAATAGATGGAA	183
410	CAGATCACGGAGGAGACCAAG	390
354	CAGATCACGGAGGAGACCAAG	334
321	CAGATCACGGAGGAGACCAAG	301
309	CAGATCACGGAGGAGACCAAG	289
855	CGAGTGTCCAACAACCTGTGAT	834
132	TGATGTGGTGATAGTGGTGGAG	111
1016	AGCATTGTTGGATCACTTATTGG	994
1834	AGCATTGTTGGATCACTTATTGG	1812
120	TCGTTCGTTGTTGCTCATCA	101
174	TCGTTCGTTGTTGCTCATCA	155
548	GCTTCTTCGCTTCGTCTGTG	529
718	ACTGGAATGTGATGAGATTGATGT	695
1174	AGTTGTGGATTGGTTGTTGAGTAGG	1150
314	GTTGGATGGTCGGAGAGTGG	295
222	ATGTATGAAGACGATTGGTGTGTT	199
160	CCTGAGCACATTCTAACGCA	141
319	CACCGCCAGTCATTGTACCT	300
775	TAGGCAACATCATCGGCATT	756
1057	TAGGCAACATCATCGGCATT	1038
242	TGGCGTGCTCACAGTAGGTG	223
167	CGATGTGCTTGTGCTCTCCA	148
1154	TCTGCTCTCCTTCGTGCTTC	1135
612	AACGACCAACCGATGAACAC	593
303	CCTACTGTGCTCGTGAAGAACTG	281
482	CCTACTGTGCTCGTGAAGAACTG	460
223	TGGATGCTCTGGATCGTTGA	204
570	TCGTTGATGTTGTTGGATGA	551
2351	CCAGACGAGCCAACATACCA	2332
108	CGAGAATAGACGATACCAAGGC	87
314	CCAGACGAGCCAACATACCA	295
1073	TGGAGCTTGGAGCCGTCTTC	1054
552	GCACGAGCCTCGAGACCTTC	533

506	GCACGAGCCTCGAGACCTTC	487
86	CATTCTTCATTGGTCAGGCAT	66
649	GTGAGACCGCACTGGAATGG	630
197	TTCGCTGAGATTGCCACTTC	178
150	CTTGCAGATTGTCCAGTGGAG	130
343	TGGATCGGTAATATCGGAGAGTG	321
1086	GTCGGAGAGCAGGAGTTCGC	1067
1086	GTCGGAGAGCAGGAGTTCGC	1067
210	GTCGGAGAGCAGGAGTTCGC	191
206	AGCAAGTAGGCTCCGATGGT	187
206	AGCAAGTAGGCTCCGATGGT	187
320	CGCCAGACGAGTAGAGCACT	301
804	TCCACATCCAGCAATATGACAA	783
804	TCCACATCCAGCAATATGACAA	783
2050	TTGGAGGTGGCGGATATACG	2031
569	CTGGAGTGGTGGCGGAGTATC	549
137	TGTTGCTTCTTCTCGTGTAGACA	115
364	CCTGATAGAACACTGGCTCGTAG	342
127	TTGTTGGTGGCATCTGAAGTTG	106
363	CGAGAGAACTTATGTTTCAGCCAA	341
227	TGTCGGTTGCTATATTGAAGTGA	205
754	AATTCGATTCGGAGCACGGT	735
754	AATTCGATTCGGAGCACGGT	735
625	AGTGGCGGCACATTATGGAT	606
483	AATTCGATTCGGAGCACGGT	464
524	AATTCGATTCGGAGCACGGT	505
108	GGAGATGAGTGTGTAGGTTGTCTG	86
1078	GGCTTCTGTCCTCCTCGGT	1059
401	CCGTGGTTCGTGTTGAGATAGAC	379
642	GAAGACTTGCGTGCCACCAC	623
485	CACGCTCCATTTCGTATGTCTG	466
451	TTCCACCATATGTCTCTCCGA	431
156	TTGTATGTCCATTGCTCATCATG	134
979	TCTGTCCAAGTCTGTGATGA	959
163	ATCCATTGACGGCTATTGCTC	143
164	TTGGTTCCTTCATCGTCGTC	145
178	TTGGTTCCTTCCTTCGTCGTC	159
177	TTGGTTCCTTCCTTCGTCGTC	158
387	TTGGTTCCTTCCTTCGTCGTC	368
1052	AGTTGCTGAGTGATGATTGTGC	1031
1128	AGTTGCTGAGTGATGATTGTGC	1107
126	GGACCATCAGCATCTTCTCG	107
231	GCGACCACACTTGATTGATGC	211
231	GCGACCACACTTGATTGATGC	211

231	GCGACCACACTTGATTGATGC	211
465	GGCACTGAATAAGCTGGCAT	446
116	GGACGGCATTCAACGATACC	97
449	TGCTGGAGTAGTGACATTGCC	429
515	ACATAATAATCACCACGACCACAT	492
1948	CATCCATACTCATAGCGAACTTCTC	1924
364	CGATGGCTCACAATAGTTGACA	343
144	CACCAGTGTCTACTTCTGAGTCGT	121
274	ACGATGGCTTACAATAGTTCACAA	251
245	GCGTACAGAAGTGGTGACATCA	224
178	CAGTGACTGCATGAATAAGCATAGTG	153
308	CCATTCATCACTTCTGTTCCG	288
304	CCATTCATCACTTCTGTTCCG	284
2053	GCAATCTGAGCCTGAACAACTAC	2031
236	GTTCCAGCAGGACATGGTAGA	216
275	CCATCCTTCACGGAACAATG	256
147	TCTTGAACATTGCGGTAGCG	128
671	ATGATTGTCAATATAATCGTCAGTGTT	645
668	ATGATTGTCAATATAATCGTCAGTGTT	642
430	ATCAATCTCGTGGAATGCGTT	410
80	CAGTTGCGAAGATTGTCACCA	60
126	AACAAGAGAATCTGCCACTTGG	105
121	TCCTCAATCGTTGTCGTCCTC	101
103	ATGGAGAACAGTAGGCAATGTGT	81
168	AGCGTTGCATAAGCACATCG	149
168	AGCGTTGCATAAGCACATCG	149
121	GCACAATAACACTGACCACCTAT	98
1100	CTCCATCTTCAACCAATCCTTC	1079
1100	CTCCATCTTCAACCAATCCTTC	1079
1100	CTCCATCTTCAACCAATCCTTC	1079
2124	TTGACCAGAAGTGATGATACTGAAG	2100
2126	TGACCAGAAGTGATGATACTGAAGC	2102
168	CCTTCAGATGCGAATTGTTGAGT	146
125	CCTTCAGATGCGAATTGTTGAGT	103
510	GAATCCTCATCATCAGAATCCG	489
516	GAATCCTCATCATCAGAATCCG	495
743	CCAATTGTCAGGAAGGAAGTCT	722
407	TGAGCCAAGAGTGTTGAGCCT	387
2316	GGCAGTAGTTCTGTCAGATCCTCCA	2292
355	AATCCAATATCACATCGCTATCTACA	330
7316	TCTTCCTGGTGACGATGCTT	7297
2573	TCTTCCTGGTGACGATGCTT	2554
2462	TCTTCCTGGTGACGATGCTT	2443
3698	TCTTCCTGGTGACGATGCTT	3679

3431	TCTTCCTGGTGACGATGCTT	3412
7205	TCTTCCTGGTGACGATGCTT	7186
3587	TCTTCCTGGTGACGATGCTT	3568
3320	TCTTCCTGGTGACGATGCTT	3301
197	CATCAATAACCATCCTTCTTCGT	175
136	CCAGATGATGAATTGGAATCG	116
383	GGCGGTTGACATTGTGGAGA	364
625	GGTAGGAAGGATGAGAATGAAGATG	601
625	GGTAGGAAGGATGAGAATGAAGATG	601
574	CAGAGACGAGGCGATAGTAGTTC	552
183	GCAATACACGAATAACAAGCCAATG	159
1815	GTCGGTAACAACAGCTATGCGT	1794
417	AATATGACTTGGCAACCGTAGTACT	393
528	CCACTGTGAATGGAATGTATCG	507
545	CCACTGTGAATGGAATGTATCG	524
171	TAATAATCGTCTCTGTCACTTCATCC	146
148	CTGGACCATCATTCTTCTGGAA	127
138	GAGAGCAGCAGCACGACGAC	119
128	CCGCCTAATAGGTCCTCGTT	109
133	AGGTTCACGAGAACGACCAA	114
405	AAGTCATTGTGAAGATTCCAAGG	383
240	CACTCATTGGCTTCTGCTTCC	220
479	CCACCTCCACCACCTCCTACA	459
470	TCTCCGTTGACTCATTCTGTGT	450
137	GCTTCTTCGTTATTCGGATGGC	116
215	TTCTTCCATTGCTCTTCACCA	195
641	CAAGCGAGTGTCTAGATGTAGTGTT	616
338	CTTGCGTCGTTGTAGTTGTCTG	318
842	GGATTCCGTATGAACCATCG	823
470	TCATGGCAGAGAAGTTCTTGG	450
467	GGATTCCGTATGAACCATCG	448
556	ACCAGAGACAAGATATGGACAGC	534
120	CGAGGAAGAGGCGGTGTGTT	101
130	GCACACACATACACATCCAACG	109
253	TGTAAGGTTGACGAGACAATTCTTGC	228
1859	TGAAGAGGATGTAGCGAGGAA	1839
1711	TGAAGAGGATGTAGCGAGGAA	1691
1826	TGAAGAGGATGTAGCGAGGAA	1806
1665	TGAAGAGGATGTAGCGAGGAA	1645
1826	TGAAGAGGATGTAGCGAGGAA	1806
127	CTCCTCCGACGGTTCCATAG	108
166	GGATAACTGCGTGCTGAGGT	147
482	GCAAGTCACGAACCGACATC	463
635	GCAAGTCACGAACCGACATC	616

107	CCTACAAGACGAAGTTGGTCCT	86
126	CGAAGTGCCACATGATGAGA	107
3534	GTTAGCAGTTGAGCCGTGTGA	3514
2933	CAGTAACCACCTTCTCAATGCTT	2911
226	CGGTGGTAATGGCTGTCTTC	207
123	TTGTTGTGACGCCTTGAGCA	104
197	CCTCGTGAATCTCGTAATCCA	177
323	CGAGTTGAAGGAGACGGACA	304
396	GCTCACAACCTTCCAATCTCAT	374
380	ACACATTGATCCTTCGTCACAC	359
744	GTAATTCCATTAGCAATCAACTCGT	720
3840	TTGACGACCGATAGCACACTC	3820
3846	TTGACGACCGATAGCACACTC	3826
668	AACGATTGCCGACACGAAGT	649
607	AACGATTGCCGACACGAAGT	588
607	AACGATTGCCGACACGAAGT	588
636	AACGATTGCCGACACGAAGT	617
607	AACGATTGCCGACACGAAGT	588
636	AACGATTGCCGACACGAAGT	617
287	ACTGGAGCGGTCTGGTAGGC	268
210	CGCTTGTGTGTTTCATTGTCATTG	188
927	CCAAGAGCATCTTCAATGACTTCG	904
137	TGATGAATAGAGGAAGGAAGAGGTC	113
262	GAATAACGGTCGCTCTCCTCT	242
154	CCAATATCTAAGAGGCCGTGTT	133
139	TTCATCTTCCTGTTGGAATATAATAGAG	112
285	CATCATATTCTGCTGTGTCGTAAGTCC	259
455	GGAGGTGCTTGGTATGCGAA	436
126	TGATTGTCTCGACAACAAGCC	106
957	GACGAAGGCGAGGATCAATC	938
162	TTGTGCTTGTTCTGCTTCCG	143
778	GGACGAAGGATACCAAGAAGG	758
302	GGACGAAGGATACCAAGAAGG	282
278	GGACGAAGGATACCAAGAAGG	258
262	GGATGTGGTGGTGGTGGTTG	243
2094	CAATGGAAGATCGAACATCACA	2073
1360	CAATGGAAGATCGAACATCACA	1339
1002	CAATGGAAGATCGAACATCACA	981
141	AACACGGCCTCTTAGATATTGG	120
128	TCGGCATATCGATCATAGTCAA	107
124	CCAGGTGACCATCAGATCAATG	103
123	TCACTTCCTTCTCATCGTTGC	103
946	TTGGTGGATTATACACTTATCTTCT	921
475	CCTGGTCGCAAGTAGTGGATT	455

482	TGATACCGAACTCCAGATACTC	459
232	AGAATTGGTCAGCTGTCCACTT	211
219	TCTTAGGAGGAAGCTCAGAAGATC	196
189	CGACACACGATCAATAAGCATT	167
255	ATGCACAACATTCGAGTCGA	236
592	GCTCCATTGTCTGTTCCGTGA	572
874	TTGGAACCTCATCAAGGTTGC	854
165	CGACCGTATTAGCATTATCTGGA	143
1289	AGAGTTGTATTAGCCATATTCGTC	1265
163	CAGTTGATGGAGTAGCAGTTGTG	141
829	TGGAACGCCTATCAAGTATGG	809
919	TGGAACGCCTATCAAGTATGG	899
123	GAGGTTGGCTACTGGAACATTG	102
364	CTTGCTGGATGCTGCTACCT	345
2198	TCACGCTTCTTGGCTGACTT	2179
858	GGCGCAACTCTACTTCTTGTT	836
226	GCAACCACTTCTCGTTGTAGTAGA	202
370	GGCGCAACTCTACTTCTTGTT	348
304	GGCGCAACTCTACTTCTTGTT	282
182	CTCAGACAACAAGGCGGATG	163
517	TCAACAAGTGTCTCTTGAATTAGGTAC	491
517	TCAACAAGTGTCTCTTGAATTAGGTAC	491
438	TCAACAAGTGTCTCTTGAATTAGGTAC	412
572	GCCGATTGGAAGAATGTTGA	553
477	ATTCAGGCGGTCTTGATACG	458
875	TGCTACTGCAACTCCAGTCCTC	854
1374	AACTGCCACAATCTCCACGA	1355
1572	AACTGCCACAATCTCCACGA	1553
163	GCACGACGGTCATCATCCAT	144
307	GATAGTGCGTAGTGATTGATGTTAGG	282
315	GATAGTGCGTAGTGATTGATGTTAGG	290
418	GATAGTGCGTAGTGATTGATGTTAGG	393
221	TGAGGAGGAGAAGCAGCACA	202
1769	TTGATCGCTCTCCACTCGTC	1750
132	GAGTGGTGTGAGAGTGATTGAAGA	109
1020	TGATCGTAGTAATCAGGAGATCGTC	996
1601	TTCTCCACTTGCGTATTGG	1582
196	GATGAGGCGGAGCAGATGTG	177
219	TCTCGTCGTCAAGAGATGCTC	199
123	TTGTTCTCAACCGCACTTCCT	103
150	AGCAATAATCCTATGGTTGAGTGAAG	125
139	CAACTGCCGCTGAAGAGTACA	119
1263	GCATCTCTTCGTCATTATCAGTTG	1240
1036	GCATCTCTTCGTCATTATCAGTTG	1013

1284	TCATCATCTGGAAGTGGTGCT	1264
395	GCGAATCCGTTGTGGTAGTC	376
395	GCGAATCCGTTGTGGTAGTC	376
395	GCGAATCCGTTGTGGTAGTC	376
443	GCGAATCCGTTGTGGTAGTC	424
443	GCGAATCCGTTGTGGTAGTC	424
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2333	CCGCACACTGGAAGATGGAA	2314
189	GCATCCGACGACTCTTGACG	170
1822	TGGTTCTTCAGTCGTTGTTGGT	1801
78	GGCTCACTTGAAGTGGCTCA	59
243	GGCTCACTTGAAGTGGCTCA	224
78	GGCTCACTTGAAGTGGCTCA	59
243	GGCTCACTTGAAGTGGCTCA	224
233	TCTCCATCATCTCTGTAGTAGAGTCCA	207
818	GGCATTGGCAGAAGACGATT	799
128	AGATGGATGCCGATGAGAGC	109
164	CGACAATGACTGTTCTTGGC	144
1260	GCGTAACCTCGGCTTCTTGT	1241
1479	GCGTAACCTCGGCTTCTTGT	1460
460	AGATAGATCGTTGCCAGTACCG	439
764	AGATAGATCGTTGCCAGTACCG	743
545	GCGTAACCTCGGCTTCTTGT	526
849	GCGTAACCTCGGCTTCTTGT	830
311	ATGTCGCCTTCTTCTCCGT	292
142	TTATCGTGTCTGTGTATGTGTGTATG	116
645	GAGTCCAGATATTCTGCATGACAGC	621
129	GCTGATCTCGGCAGTCATTG	110
6175	CGAATCTCCATCCACAAGCG	6156
2254	GGTTAGTTATCGGTTCTCGTTGA	2232
2313	GGTTAGTTATCGGTTCTCGTTGA	2291
2251	GGTTAGTTATCGGTTCTCGTTGA	2229
653	GGAGTTATCTGACGAGAAGGTGAGC	629
863	AAGACGAATGTAGTTGAGGTTGG	841
236	CGAAGTAGTCATCAGCAAGTGG	215
835	CGCTGTTATCGTTGTCTGTTGTG	813
200	CTGTATGGAATGTTGGAGACACC	178
388	TTCTTGGTGAATCATATTGAACATG	364
290	GCTTCAAGGCGATACACTGATC	269
226	CTTCATCTTGAGACACTCCTTCG	204
487	TGTTCCCTCGATACATCACTAGTTCC	463
664	TGTTCCCTCGATACATCACTAGTTCC	640
526	TGTTCCCTCGATACATCACTAGTTCC	502
805	TGTTCCCTCGATACATCACTAGTTCC	781

336	GAAGATGAGACGATCCGAGAAG	315
978	GAGCAGCACACGATGGAGGT	959
825	GAGCAGCACACGATGGAGGT	806
135	CGCGAGACAACTTACAACGC	116
227	TGCTTGCAATCAATGTCTTCC	207
378	CGAAGAAGAAGAAGCACAGGA	358
435	CGTCCTTATTGTGCGAGTTGT	415
435	CGTCCTTATTGTGCGAGTTGT	415
435	CGTCCTTATTGTGCGAGTTGT	415
507	CACACAAGTCAATCCATAATAGGCA	483
376	AGCCATCCACCTCTTGAACC	357
191	GATGACTCCATTGCGAGTGTTG	170
236	CCTCCTCTTCCTGACGCTTG	217
689	CGATGTGGAATGGCTTGTGG	670
615	GGTTCGGTATCTGGTGATGG	596
133	CCACGTTCTCCACTGTTAGACA	111
525	CATTGTTCCGTAGGTAGACTTGG	503
279	GGAGTGGAACGATACCAATGG	259
687	GAGTCCGCAACAGAGTCCAC	668
157	GAGGAGGTGGTGGAGCTTCTAC	136
130	GAGGAGGTGGAGCAGCGTCT	111
493	CGTTCTCAGTTGACTTGGCGTA	472
148	GGAGAAGCTGGATATTCTGGAGGA	125
484	GATTGACTAGGACGTACTTGAGGATT	459
166	CTGAACTCGTAATTGAATCATTGC	143
318	TTCAGCGTCTTCGTGCGATT	299
318	TTCAGCGTCTTCGTGCGATT	299
550	CTCTTCCTTCGAATTCTTCGTG	529
882	AACTATCGGACCAAGGACTGAA	861
605	CATCCGTTATGAAGTTCTTCTTGA	582
613	CGTATGCTGATATCGAAGTAGCTGTT	588
613	CGTATGCTGATATCGAAGTAGCTGTT	588
670	GCTTGATGGACAAGTTGAGATG	649
199	GCCTGACAGACCATCTATTCCG	178
156	GCACGCATTACACGAGAGAA	137
602	GAATAGTTGGCGAGGAGAAGAGA	580
1111	ATGCTGTGAGGCGGTTGTCT	1092
752	AGCTCGGCAACACGAGACAC	733
898	GCTCTTCAACGCGAACCACT	879
370	CCAAGAGAACAATGACAGAGCA	349
377	TCTCCATTATCGGCGGCTTC	358
3377	GAGTTGTTAGGAGTTACGGTGAGC	3354
583	CCACAATCAGGTATAATGGAGCA	561
568	GAGGAGCTGCACGTACATCTGG	547

320	TCGTTAGGTCGTAGGCATCG	301
197	CCTTCATCTCCTGTCACGCA	178
380	TTCACCTCTCCTTGCTGATAGGC	358
122	CACAACGACATGGACTACACG	102
1014	GATGATGGTTCCTGTCGTGAGA	993
1014	GATGATGGTTCCTGTCGTGAGA	993
1014	GATGATGGTTCCTGTCGTGAGA	993
421	AATAAGAACGACTCGACCTGGA	400
503	GATGATGGTTCCTGTCGTGAGA	482
587	TCGCATCTTCTCCTCCGTAA	568
565	TCGCATCTTCTCCTCCGTAA	546
486	TCGCATCTTCTCCTCCGTAA	467
581	TCGCATCTTCTCCTCCGTAA	562
559	TCGCATCTTCTCCTCCGTAA	540
1137	GAGAAGAAGTTAATGTTGCTGTGTTCA	1111
272	TGTAATGTGTTGGATGGATAGTCG	249
699	TGATTGAAGTGGAGAATTGTGC	678
450	GTAGGCGGCTCTCGTGGATA	431
450	GTAGGCGGCTCTCGTGGATA	431
611	GTAGGCGGCTCTCGTGGATA	592
282	CTTCTCGGCGTGATGATTCC	263
282	CTTCTCGGCGTGATGATTCC	263
744	GAAGCAGAGAACGACTCCTTGT	723
784	CCACGTAGATGATCGCAGCT	765
764	AGCTGTGTGGCAACGCAGAT	745
561	CACTGGAGCATTATAGATGTAGTTAGGT	534
337	TTCGGTAGCAGACACACTCCA	317
122	GATGCATCACACATCGCCTT	103
241	AAGCGAAGATCCGATGTTGC	222
255	AAGCGAAGATCCGATGTTGC	236
157	CGTAATGTTACTGAGTGTTCAATTGA	132
1687	GCATGGCAAGGAGAGAAGTATG	1666
568	GGTTGGTACACTCTAAGCCTGGAA	545
512	TTGAACCTTGCTCCGTTGGT	493
168	CGCCGTGGTGGTAAGTCGTT	149
955	CGGTAGTGTCTTCTTCATAGTCATCG	930
1069	CGGTAGTGTCTTCTTCATAGTCATCG	1044
1221	CGGTAGTGTCTTCTTCATAGTCATCG	1196
1258	CGGTAGTGTCTTCTTCATAGTCATCG	1233
1069	CGGTAGTGTCTTCTTCATAGTCATCG	1044
277	GCTCTTCATTGACAGGTTGCC	257
143	CCTCACTCTTCTCTCTCGGT	123
136	GTCAGGCACGACTTGTCCTC	117
730	GTCGGTCAGGTCGTCCAGTG	711

1592	GTCGGTCAGGTCGTCCAGTG	1573
601	GGTAGGAGACCAAGGTATGGAATC	578
399	AGCGTTGATAGCGGTGGATTC	379
396	AAGTGGCGCGAACCAGTAAC	377
1395	ATGATTTCGCACCTGACCACT	1376
281	CAGATATCGTTATCACTGGAGAGCTT	256
2370	ACAGTAGACAGCGAAGTATTGGTG	2347
719	ATACAGATGCAGACGAATAAGGTG	696
641	CACTTATCCGCAGCCTTCAGA	621
330	ATCGGAAGAGGCTGTGTTGC	311
132	TTAACGCCTGCCTCCAACCT	113
814	CGCTAACTGGCTCACTGGAT	795
1807	TGTCGGAGGAGGTCCAGTTC	1788
272	GTTGATGGTCTCTGCGATGG	253
1838	ATCGGAGCACACTTCTGGAG	1819
845	TCGTCGCATCCAACCTGTCT	826
345	GTTGGCGATGCTTGTCTTCC	326
1175	CGAACAGCTCGTCGTGAACA	1156
1165	CGAACAGCTCGTCGTGAACA	1146
1790	GCCATTGATTGTTACGCCAT	1771
1533	GCCATTGATTGTTACGCCAT	1514
97	TTAATCTGGAGGAATTCGAGGTT	75
350	AGTCCAGCACGAGAACAAGC	331
806	TGTCATCTCGCTCATCTCATCG	785
3457	GACCATTGAAGTGAGCATACCA	3436
1426	GACCATTGAAGTGAGCATACCA	1405
941	GACCATTGAAGTGAGCATACCA	920
154	TGAACTCATATTCTCCTGTTACGACCA	128
275	CCACAATGAAGACAAGCAACTACA	252
2164	GGCGGTTACGTGATGGACAA	2145
1237	CGAAGACAATGCAGTGACCA	1218
1213	CGAAGACAATGCAGTGACCA	1194
490	ACTGACAGCCGTAATATTGAGCT	468
109	GAGAAGCTTGGATTGATTGGCA	88
616	CTCATGAGCCTGATCTTCATTG	595
840	TCTGGAATCATCTTGCTCTCG	820
824	TCTGGAATCATCTTGCTCTCG	804
111	GAATTGGTCTATTGAAGATTGTAGGAT	85
111	GAATTGGTCTATTGAAGATTGTAGGAT	85
111	GAATTGGTCTATTGAAGATTGTAGGAT	85
111	GAATTGGTCTATTGAAGATTGTAGGAT	85
542	CATCTTGAAGGTGGTCAGAAGGTC	519
407	GGTTGTTGGACATATCTAGTAATGGA	382
188	GGTGTTATTGGCGTGTCAATC	168

2913	ATCTTCACCTTGATCGTACTGGAT	2890
146	AATCTAACCGTCTCCGAAGAATC	124
113	GGCGGTCCAGAAGACAATCC	94
488	GTTGGCTCTGTGGCTTGACC	469
486	CTGATGAGGACGGAGTTGGC	467
886	ACGATGACTGACAGAAGCATCA	865
341	GGAGATTCTGAGTACGGTGACATC	318
643	CGCCACTTCTCTTACAATCAACG	621
144	TCTCATCCGCACGTAACATG	125
123	GACTGGTCATGTCACCTTCTCA	102
1049	AAGTTACTAACAATAGGCTGGATGG	1025
697	GAATTATCCGTATGGAATGCTCA	675
220	TGGTTCACTACTTCGGCGTTG	200
214	AGCCACTGTCGGATGTGTCTG	194
462	AAGATTAATGAAGTTCATCACATCCTG	436
1095	TCACTCATGTAATCCAGCAGACC	1073
99	ACCATGATGACCTCCTCCGT	80
132	CTCCAATCGTCGGAGAGAGG	113
380	TTGATGTACGCACAGGTAGTAGTTGA	355
389	TTGATGTACGCACAGGTAGTAGTTGA	364
136	GAGAGAGAGAGAGATGGAGATGGA	113
1626	CGAGTAATTGTCCATTACGCTCA	1604
143	CCAAGAATGGATTGATTGCTCT	122
149	ATCATGGAGGCCACGACCAT	130
136	CATCATTGTTACGTCACTTGGA	114
269	GAGAGAGAGAGAGATGGAGATGGA	246
796	TGATGAGAATCTCGACGTCAGAC	774
137	CAACATTCCGACAGACCACTT	117
414	GATGACTTGGCGAGGTCGTA	395
915	CTTCTTCGGCTCACGCATCT	896
593	TCCACGTCTTCTCCATCCAA	574
148	CGACCACTGCTCCACCAAGA	129
600	AACGATGAACACGAGAAGCG	581
311	AAGTCTTCCGTCGAGAATCCA	291
135	TCCTGGTCAATACAGCGTGTC	115
149	CCTCATCTCCATCGTCATCG	130
165	CCTCATCTCCATCGTCATCG	146
192	TCTGAAGCGCATGGTGATTG	173
192	TCTGAAGCGCATGGTGATTG	173
505	GATTCCAAGACGACGCCACT	486
138	CGGAAGGTGGCTGAGCTGAT	119
140	CGGAAGGTGGCTGAGCTGAT	121
138	CGGAAGGTGGCTGAGCTGAT	119
169	GCTTGACCACACATGCATTCAC	148

723	GTCATTCCACGCAGATACACAC	702
926	GTCATTCCACGCAGATACACAC	905
723	GTCATTCCACGCAGATACACAC	702
1197	AAGTAATGAACCAAGCAATCGG	1176
4377	CAATAATTCTGGCGGCTGAGT	4357
382	GGTGTGGCTCCTTATCGCAA	363
574	GTACAGGTTGAACAGCCATCG	554
1047	ATTCCTTCACTACTTCTTGGCATT	1024
1300	TGACGCAAGCACTACCGATT	1281
1300	TGACGCAAGCACTACCGATT	1281
1244	GTCCTCTCGCTCTTCCACTGA	1224
222	GCGTATTGGTCAGTAAGATTGGAA	199
563	GAACATAGTGACCGCAACAGTG	542
563	GAACATAGTGACCGCAACAGTG	542
563	GAACATAGTGACCGCAACAGTG	542
185	TGCGTCTTCACCTCATCGTC	166
213	GTTCCAGCACCGTTGATTCC	194
178	GTTCCAGCACCGTTGATTCC	159
1903	GCTCTTCTGATGGTGGATGG	1884
1640	TGCGGCGTTGAATCTGACAT	1621
143	CGTCGTCAGTGGCTTCTTCG	124
1667	GCGAGCAGCATGAACTCTTC	1648
973	CACGCCAGATTCAAGTTGTTGC	953
940	CACGCCAGATTCAAGTTGTTGC	920
406	GGTTCGGTTACAATTACATCGGTT	383
321	GCAATGGACTCCGTGTTATAGACTT	297
221	GCAATGGACTCCGTGTTATAGACTT	197
527	CGCCATAAGAGTTGAGGAGCA	507
300	TGACTCCACTTGAAGTGTGATGA	277
431	TGACTCCACTTGAAGTGTGATGA	408
180	TGACTCCACTTGAAGTGTGATG	158
413	TGACTCCACTTGAAGTGTGATGA	390
3031	AAGTACATGACGTTGTTGGCATC	3009
471	GTGGTTGCTGTTGAATGGTAGA	450
378	GAGTTGATTCTGACGCATTCG	358
448	GAGTTGATTCTGACGCATTCG	428
350	TGGATTGTAGAGCGGTCTGG	331
517	TCGGATGATTAGGATGATAGGTG	495
211	GGCGATTAGCGTGTGATGT	192
189	ATCGTGTTGCGTTGAAGACA	170
615	GATTGTGATTGGCAGGTATTCTC	593
236	CCGAAGTTGCAACGATCGTT	217
740	GCTCGGAGGAGTTCTAGCTGA	720
507	GGCAAGGAGACGGAAGACAC	488

1119	AAGTCCGCCAGATACGAAGA	1100
688	TTCCGAGAATTGAAGCACAAC	667
514	CTACAGCCGGTACCAAGTGG	495
766	TTGTGAGGAAGAGACGAACTAGG	744
962	GACGCCTTCGATGGTGTCTG	943
255	GCAGCAGTAGTGGTTGTTGATG	234
254	TCGCTAACTCCTGTCGCATT	235
212	GCGGTTGTGGTTGTTGTTGG	193
129	ATCAACCTCAGCTCGGCTTA	110
352	GCTGATCTGGTTCCTGTGAAG	332
226	AACCATCAGCACAAGAATAGTCC	204
372	GATATGAGTGAAGCCATCAGTGC	350
441	GATATGAGTGAAGCCATCAGTGC	419
618	AAGGTTCTCAACGTGCTGATCT	597
612	AAGGTTCTCAACGTGCTGATCT	591
281	GCTCCGTTACACTGTTCTGAGTT	259
444	GGTGTGGTGGTAGTGGTCAGG	424
758	ACATAGCGTTGGAGTCTTGTT	737
382	ATGTAGGTGAAGCCGAAGACG	362
106	TTGCAGTCTCACAGGTGAATGAG	84
195	TTGAGCTCGTCGGCTCTCTC	176
1390	TGTTGTAGGACTTCGGCGTT	1371
604	GCGGAAGTCGTGAGGAGTACC	584
495	GTCATCAAGGTTCAAGCGGAAG	474
604	CTGCTGTGGCTGTCTCCTGAA	584
237	GAATTGAACTCCACTCCAGCA	217
247	GAGGTTGCGGATGAGATGGC	228
223	GCTGCAATCCAACATTGTGTT	203
534	GCTGCAATCCAACATTGTGTT	514
155	ATCCAGAACATCCAGCAGCAA	135
301	CATCGGCAAGACACTGAACC	282
2380	CGTTGTCCATAAGAAAGTTGAAGG	2358
87	TTGGAGCAGCTGGTGCCTAT	68
614	ACGGTCTTGGTACGGTAGTCTC	593
619	AATGAAGTGATTGAACTAACCAGGT	595
512	AATGAAGTGATTGAACTAACCAGGT	488
300	AACCAATTCCGTCCATGATGA	280
446	TCAGAATTATGGCACGGAGGTAA	424
446	TCAGAATTATGGCACGGAGGTAA	424
375	TCAGAATTATGGCACGGAGGTAA	353
409	TCAGAATTATGGCACGGAGGTAA	387
942	AAGTGTGGCGATAGATAGCGA	922
392	GCGGTACACTCCTTGAGAGC	373
571	CAGATGTTGATGTTGGTGAATAGC	547

689	TGACGATATTCCAGTTGAGCAC	668
231	CATCATCGGCTGGTATCTTGA	211
238	CATCATCGGCTGGTATCTTGA	218
243	CATCATCGGCTGGTATCTTGA	223
118	TCTAGGCTTGCTGTTGGTCTGAA	96
117	ATTCACAATTGAGCCAACTGTG	96
1193	CGAACACAGCTTGGTCGGTA	1174
161	TCCTCTGATTCCGCTTCTGA	142
371	GTTGCCTGGTCTCCGATTCC	352
410	CAGGTTACACCGTACCACATTG	389
122	TGAGCGGTCGGAGTAGTTGA	103
352	GCACAACAGTGGAGGAGAGG	333
1641	CCACTGAGATAATGTCGTCGGA	1620
1641	CCACTGAGATAATGTCGTCGGA	1620
1656	CATAGTGCTGCGATACAAGTGC	1635
301	AAGATCAAGTACAGCACGAACATCA	277
192	TTCAGAGCACATGGTTAACTCAA	170
499	TACATCTCATGTCGTCTCCGCAA	477
365	TACATCTCATGTCGTCTCCGCAA	343
592	CCATCCGTCAATACAATCGAATG	570
365	GTA CTGTCGGCAAGGCATC	346
189	ACAACAACAGAATAGTGCCATACAG	165
159	CGAGATGCTTCACAGTCGAA	140
596	GGAATGCTGTCATCGTTAGTGG	575
182	GCTAATTAGGAAGGCGAGAGG	162
1127	GCTGCTTATCGGCTATTGCTG	1107
126	TCGCCGCGGATTGTAATACTTC	105
124	GGAGGCGACATGATGTCCATA	104
139	GCTCACTTCTTGCGCTTCTC	120
121	ATTGAGCGGTGCTGCCTCTT	102
798	AACAACCTCGACGAACACCGT	779
798	AACAACCTCGACGAACACCGT	779
121	AGTTGCTCTCCTGACTTCTCGA	100
436	GACACTGCCTTCCGACAATC	417
301	GACACTGCCTTCCGACAATC	282
409	GAGTTGATGATAATGAAGGATAGAAGTC	382
154	CGTTCATCCTTGTGCTCGTC	135
162	CCGTGAAGAGTGTCCGAAGG	143
159	AAGATGTGCGTTCCGTGAGG	140
643	TCACATGACGTTCTGATGG	624
306	TCACATGACGTTCTGATGG	287
583	TCCTGACTTGTAGATGTCTTGACC	560
163	TCCAACACCAGATGACGAGTT	143
411	GGACGACGGTTGATGGTAGC	392

428	GGACGACGGTTGATGGTAGC	409
540	GCTTCAGAGCCACATATTGTTG	519
591	GCTTCAGAGCCACATATTGTTG	570
591	GCTTCAGAGCCACATATTGTTG	570
783	GCTTCAGAGCCACATATTGTTG	762
580	GCTTCAGAGCCACATATTGTTG	559
411	GGACGACGGTTGATGGTAGC	392
625	GCTTCAGAGCCACATATTGTTG	604
1005	CGGACACACCACAGAAGCAC	986
534	CGCAACCGAGTGGACAAGTG	515
111	TGAACGGAATTCATTGTGCA	92
536	GGAGAGTAGAGGCACACAAC	514
334	AGGATGAAGATGCGGCTGGT	315
780	ATCACGAACGGCTGCCTCAT	761
385	TTGCGTTAGACTTCCAGCCA	366
552	CACAACATGACAACGGAAGAGT	531
1654	GTGTACGATACAGTTGTCCAATACG	1630
266	TGGAACGGATGAGATGGATT	247
507	GAGACAGTCGGCGGAAGAGT	488
822	CGGCGTCTATGTTACAGGAC	802
269	AGCATCGTGTAGAGTAGGTCAGC	247
314	AGCATCGTGTAGAGTAGGTCAGC	292
274	ACTTGTGTTGACCGCTCCTC	255
287	TTGTTCCAAGAACTCTGTGCATT	265
387	TTCATCATCATCAACTGGAACC	366
903	TCAAGAAAGTCCTGTGCCGAA	884
907	GGATTGGATATGAGTAGGATTGTTG	883
684	TCAAGAAAGTCCTGTGCCGAA	665
1213	TGGTAAGTGAACAAGTATAGAAGATGC	1187
1220	TGGTAAGTGAACAAGTATAGAAGATGC	1194
959	CAAGACTGGTGGAGCAATGTGG	938
959	CAAGACTGGTGGAGCAATGTGG	938
1092	CAAGACTGGTGGAGCAATGTGG	1071
615	GCAGTTACGCATTGCTTCTTC	595
621	GCAGTTACGCATTGCTTCTTC	601
273	TCTCGGACTTCTTGACCTTCTC	252
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273	TCTCGGACTTCTTGACCTTCTC	252
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1101	CGGATTCACTCTCGCTGTTT	1082
1243	CGGATTCACTCTCGCTGTTT	1224
445	CGAGTAGACGAGGTGGAAGAGT	424
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607	GGCTCTTAAGTACAACCAAGTTG	585
1006	CTTCAAGACTGACTTCAATCACACTT	981
1006	CTTCAAGACTGACTTCAATCACACTT	981
1227	GCTCTGAAGACTGCCAGGTTC	1207
1225	TGACGCTCTGAAGACTGCCA	1206
773	CGAACCACTCATTGTACCACTCA	751
964	CGAACCACTCATTGTACCACTCA	942
185	CAGATAGTGCCACCGTATGAAG	164
368	TTGTTGTGAAGACTCCAGCAAGA	346
399	TTGTTGTGAAGACTCCAGCAAGA	377
379	GCGGACCTTGTGGATATGTTG	359
126	ATTGCTCGTCGCTGACTTCT	107
208	ATTGCTCGTCGCTGACTTCT	189
124	ATTGCTCGTCGCTGACTTCT	105
476	CACGCTCCATTCGTATGTCG	457
166	CCGCCATCACATCAGATACC	147
429	CGAGACATGAGAGAACCACACA	408
135	CCATTCCACTGATTGACGAGA	115
208	CGTGAGCGAGAGGAAGTTGC	189
394	TCTCTTCGACTTGCCACGCT	375
574	CTGTAGTAAGTTCTGGAGTCAAGGTAGT	547
135	TCCAGCCATTCCACTGATCG	116
150	TGGCACAGCTATACGGACATTC	129
150	TGGCACAGCTATACGGACATTC	129
784	CGGTGGATAGAAGGTGTTTCG	765
209	GCACATTCTCCACAGGTTAGC	189
87	GCACGCATCACAGCTTCTGG	68
927	GCCAACGAGACAACAAGTCG	908
438	TGTGTCACCGAGGAGGAACT	419

273	ACTGGAATGGATGGTCTTGC	254
341	TTCCACCATCTCATCTTCTTCAG	319
180	TTCCACCATCTCATCTTCTTCAG	158
191	TTCCACCATCTCATCTTCTTCAG	169
288	GTCATCTGGCGGTGTCTCTG	269
196	AGTTGAGCACGACGCCGAAT	177
169	CAACAGATACCAGGAAGAAGACG	147
396	CGCTCGTTGTTAGTCTTCAATG	375
1682	TTGACAACTTCCGATACAGACG	1661
1701	TTGACAACTTCCGATACAGACG	1680
1138	TTGACAACTTCCGATACAGACG	1117
244	TGAGAACTTCTATCAGTGAAGTCGTT	219
218	ACAATAGCAAGTACGATGAACACAA	194
162	TCTTACATCCGGTCCTCCATT	142
142	CCTCCGTAGTTGCGATGTTG	123
529	TCACAGTGACGCAAGGTTG	510
134	GGTGTCATTCCATCAGAGTCAGC	112
245	CTAATGCACCACGGTCCACTG	225
165	GCAGCGACATACCATCCAAT	146
1026	CGATGCCTCCGCAAGTCTAAC	1006
1061	TGCGTCAGAGTCACCACAAC	1042
172	TAGTTGCGATGTTGACGGAA	153
278	GGCAAGGAAGAGAAGAAGAACAG	256
507	TTGTTGGCATCGTAAGAGCA	488
187	TTGGAACAGGAGCAGATTGG	168
159	CCATTACCTTGTTCTTCTGTT	137
146	TCCTGTTGCGCTGTGGTGTA	127
213	TAATTCCAACGGTTCCAACAC	193
151	TAATTCCAACGGTTCCAACAC	131
680	GTATCGTGCAATATAAGAATCTCTCG	655
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422	GTATCGTGCAATATAAGAATCTCTCG	397
516	GTATCGTGCAATATAAGAATCTCTCG	491
443	GTATCGTGCAATATAAGAATCTCTCG	418
147	TTATGTGAGAGGAAGGAGAAGGTC	124
145	TTCCTCTCACATAAGCATTGCC	124
355	TGATAACAACACAGAAGAGACCAGAG	330
137	CGTCTCAGGCAGTGTGGAAGG	117
145	GCTCTTCGGCTATGCCTGGT	126
513	GAAGCAATGAGCACAAGTAGCC	492
135	TTAGTAACAGATGTTGATGCGTTGT	111
500	GGATTGAGACATTGACGAGGAT	479
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863	GACAGCCTTCCTCACCGAAT	844
863	GACAGCCTTCCTCACCGAAT	844
309	GGATTGAGACATTGACGAGGAT	288
309	GGATTGAGACATTGACGAGGAT	288
321	GGATTGAGACATTGACGAGGAT	300
321	GGATTGAGACATTGACGAGGAT	300
625	GACAGCCTTCCTCACCGAAT	606
625	GACAGCCTTCCTCACCGAAT	606
261	CGGATGATGACGTGGATTGG	242
261	CGGATGATGACGTGGATTGG	242
177	CTGCGTCTCCTCCTCTTCT	158
150	GTCCGATCCTCCGACGATTG	131
187	ATTGTACTGGATACGGTTCGGT	166
2154	TGAGAGCGAGACGACTGAGC	2135
359	GGAGCAAGCAAGTTGGAGCA	340
3322	GTGTGTGGAGACGGACGAAT	3303
3480	GTGTGTGGAGACGGACGAAT	3461
3640	GTGTGTGGAGACGGACGAAT	3621
493	TGTCTGAGGTGCTGAGAACTGT	472
2054	TGAGAGTGTAATGGCAAGACGA	2033
1784	GCATTGAACAACACTGAATCGT	1763
1833	GCATTGAACAACACTGAATCGT	1812
621	GCATTGAACAACACTGAATCGT	600
409	GCATCGTAGTCCGAAGCCAA	390
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409	GCATCGTAGTCCGAAGCCAA	390
430	GCATCGTAGTCCGAAGCCAA	411
296	TGGAGGTGTTGGTGAGATACG	276
151	CGTCTTATGTGCTTCTTCTTCA	127
1065	CACTGCGTTCGTCCTTCGTT	1046
1057	CACTGCGTTCGTCCTTCGTT	1038
162	AGGCGGTGTCCAGATACATCC	142
468	AATATGGAAGAAGACGGTGCTC	447
484	AATATGGAAGAAGACGGTGCTC	463
264	CACCGACATTGCTTCTAATATCG	242
2150	TCTTCGCCAGTCTCCTGATTC	2130
2156	TCTTCGCCAGTCTCCTGATTC	2136
2189	TCTTCGCCAGTCTCCTGATTC	2169
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2150	TCTTCGCCAGTCTCCTGATTC	2130
2156	TCTTCGCCAGTCTCCTGATTC	2136
2189	TCTTCGCCAGTCTCCTGATTC	2169
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186	CCTTCGCACACTTCGTCAA	167

309	CCTTCCGCACACTTCGTCAA	290
690	CTTCTTCTCCACGGCGACAA	671
375	CTTCTTCTCCACGGCGACAA	356
186	CTTCTTCTCCACGGCGACAA	167
505	AGGTAGAGTGAGAAGCGAGGAA	484
684	ATCGTACAAGTGAGCCAAGTGC	663
403	CGTTCTTGTTGCCGTGATGG	384
364	CGTTCTTGTTGCCGTGATGG	345
312	TCACAGAGCAGCGAGCAGAT	293
806	TTCCGTAGGTTCTCCAAGTGA	786
387	AATAGTACGTTGATCCTTGACAA	364
415	CGCAGATCAACCAGATTCCA	396
144	GTGTCCTTCTTGGCGGCTAA	125
1721	CACTTCCATTGCTGATACCATTG	1699
1859	CACTTCCATTGCTGATACCATTG	1837
1314	TGTAGAGGCGATGAATGTAGGA	1293
944	GCACAGGTTGAAGTGGAGGA	925
1275	TGTCATATCGTCACAGGCTTCG	1254
140	TGCTTGTTGTTGCTGCTGCT	121
140	TGCTTGTTGTTGCTGCTGCT	121
140	TGCTTGTTGTTGCTGCTGCT	121
1709	TCCAATGAGTGTCCGATGAGAA	1688
137	ATCGGCTTCTGCTTCTCCTT	118
1554	TCCAATGAGTGTCCGATGAGAA	1533
1074	TCCAATGAGTGTCCGATGAGAA	1053
126	TGCTTGTTGTTGCTGCTGCT	107
133	GCGGAAGATTGCAATACAGTG	113
2178	TGAACAACGGAAGGAAGAAGTG	2157
888	GCTTGCCTTCCTCGTGGTAT	869
518	CATCTTATCCTTGGCAATGTGC	497
518	CATCTTATCCTTGGCAATGTGC	497
518	CATCTTATCCTTGGCAATGTGC	497
1130	CACCAGTTCACGATGACGCT	1111
394	CAAGCTGGCGAGTTGACATG	375
1778	ACCGTTGGCAGTCCTACACC	1759
2502	ATTCTTGTTGGTGATTGTGTGC	2481
2502	ATTCTTGTTGGTGATTGTGTGC	2481
380	GAATCTCGTTCTTGAACAACCG	359
849	GCTCAGTAGTTGCCTCTTCTTCG	827
1232	CATTACAATCCGTGAACACTGG	1211
134	TCATAATCCGTCGCTTCCTT	115
1733	TTAGAATCAACCACGCCAAGT	1713
1733	TTAGAATCAACCACGCCAAGT	1713
356	GGACTCAAGACCGTCAGGAGA	336

819	TCCAAGTCTCATCATCAACA	799
373	GATACATGCTTCAATGATGTCTTCA	349
274	TGTAAGTTACCGTTGAACCTCGT	252
406	GAGTCACGTTGTAAGCATCTGC	385
2218	CTTGTAGCGTGTGTCGTTGC	2199
274	TTGACAACTTCTGTGTCGTCTCG	252
1495	CAATCTCCGAGTGGCTCTTCT	1475
1248	TTACCACCGAGTTGTTCCACTT	1227
500	AACTGGCATCTGGTCCGTAT	480
798	CTACTTCCTCGTTCTTCGCAA	778
104	AATGTTGTCGGCTTGATTACG	84
1142	GTCCAGTTGTATTGGCGAAGTTC	1120
721	CTACTTCCTCGTTCTTCGCAA	701
798	CTACTTCCTCGTTCTTCGCAA	778
357	TGAGATTGACACCATGAACTTG	335
344	CCTGAGCAGCACAAGCAGATG	324
405	GAGCAACTCTCTGTCAATCCGA	384
648	AACCTGGATGGAATAAGCAAGA	627
648	AACCTGGATGGAATAAGCAAGA	627
253	CTTGTTGTTGAGGACGATAGGAT	231
339	CCTGTTGGAAGGTTATACTCCG	317
323	CCTGTTGGAAGGTTATACTCCG	301
282	CGAATCGGATGACAGGATGA	263
236	GAATAGGAATTGTTGTCACAGTG	213
223	AAGAAGATCAATGCGTTCGC	204
382	AAGAAGATCAATGCGTTCGC	363
113	GGCAACCTTGATGGTATGAGC	93
1187	CTTCGAGGAGCAGGAGCATC	1168
590	CTCAGCAATTACTGGAGATCCTCT	567
1076	GTTGTTGCTGCTGCTGGTTAG	1056
383	TGGAAGTGAAGGTATTGGCA	364
1042	AGGTGGAAGTGTGTAGTTGCG	1022
1612	ACAAGCCAACCAACAAGACA	1592
706	ATACAGCATCTTGGACGTAATCC	684
1865	GCTGGAATCGCAATGTAGGT	1846
702	TTGATCGCCATATTATTGTATAGAATG	676
120	CAGCAACTCGCCTTCCTCGT	101
145	ACTGGTTGTGTTGCACCATCTACT	122
237	GGTGAGAATGGAGAACAAGGAA	216
1723	TCTTGGCTGCTTGTGTGAAC	1704
1660	TCTTGGCTGCTTGTGTGAAC	1641
202	CTTCACGAGGAAGGCGAGTT	183
312	CTCGTGTGTTGTCGTTGTGTTG	292
124	ACACATTACACTGATGAACAGCAA	101

1281	TGACTCCTCTTCCAATGTAGCA	1260
1078	TGACTCCTCTTCCAATGTAGCA	1057
634	TCCTGCCAAGTGAAGATGAGC	614
577	TCCTGCCAAGTGAAGATGAGC	557
274	TCTGATGGAACATTGTCTTGACC	252
93	GTTGGATGTTGCCTGAATGAC	73
127	GCTTGTTGTAGTGATGCGAGAA	106
1641	CCATCCTTGATGAGATTCCAGAGT	1618
2866	TCGTTGATTGGCTATGCGTA	2847
2663	TCGTTGATTGGCTATGCGTA	2644
160	TCGTTGATTGGCTATGCGTA	141
1528	TCGTTGATTGGCTATGCGTA	1509
618	ACGGCAGGATAGGATAGGCAAC	597
3608	TTATTGCCGATTGCCTTGAAC	3587
1610	GCTTGAACTGGAACCTGAACTGGAG	1586
742	AGCGAATACTAATCACGGCAA	722
694	TCGTGGTGGTTGATGTTGTTG	674
149	TTCACCGACCACCAGGATTC	130
121	CCACATTACCGATCCGATGA	102
1198	GAGCATCATTGAACACTTCTTCTG	1175
150	GAGAGAGAGATGACGCGCTCT	130
157	ATGAAGGTTCCGAGTGTAGATGA	135
139	GCATCCGACAATTATAGATACTCCA	115
314	CTCGACTCCGACATTCTTGATAG	292
183	TGAGTTGTAGAGAATCATCTGAACACA	157
207	GATTGCCTGGAGACCATACG	188
158	GATTGCCTGGAGACCATACG	139
1476	TTCAGCGTACTCAGCTCGTG	1457
2159	ATTATTGTCGTCCACTCCTTGC	2138
120	AAGAATTGCGCACACTGGTC	101
1622	GCCTGGATGGATGTAACGAG	1603
1638	GCCTGGATGGATGTAACGAG	1619
1701	GCCTGGATGGATGTAACGAG	1682
1313	TCGATACGGTTCGTTGGTTC	1294
303	CGAATGGCTGAACATCTGCT	284
898	GCGTCCTAGATTGGCATTCTG	879
259	ATGCTTGTGCTCGGTTGTTG	240
3848	CTGAGACGGTGAGCATACGA	3829
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818	CTGAGACGGTGAGCATACGA	799
1085	CACTGAATACGGACTGATGGC	1065
1196	CGAATCATGCTCGTTATCCG	1177
1285	CACTGAATACGGACTGATGGC	1265
596	TTGTCAGCATTCATCTTCCGT	575

880	ATTGGCAGGCAGGCATTAGG	861
485	CCTTGGAGGTCCGAGTGAAG	466
228	AACCTCCTCCTCGTACCATTG	208
138	GACACCAGCGCCACTGTAGA	119
455	TGGTGAGCAAGCTGCTGCTC	436
756	CGGATCACATCGAACAGTGG	737
535	CGGATCACATCGAACAGTGG	516
623	CGGATCACATCGAACAGTGG	604
1184	CGATTCCTTGTCCTCCTCCA	1165
1186	CGATTCCTTGTCCTCCTCCA	1167
413	CCAATCCAATCTTCTCCATCC	393
454	CGGAAGATGATGTGTGTAGTTGTG	431
521	CGGAAGATGATGTGTGTAGTTGTG	498
409	TTCCAATCCAATCTTCTCCATCC	387
908	ATGATCTCTCCACGACACCAG	888
242	GAATGTGAGGATGGCGTTGT	223
852	GTCCACTTCGAGCAGTTCACC	832
161	CTCCGATGTATCCGTGCTTCA	141
176	CTCCGATGTATCCGTGCTTCA	156
329	CTCCGATGTATCCGTGCTTCA	309
177	CTCCGATGTATCCGTGCTTCA	157
199	TCCGATGTATCCGTGCTTCA	180
2439	CATTGTGAGCAGGTGACGGT	2420
2439	CATTGTGAGCAGGTGACGGT	2420
2439	CATTGTGAGCAGGTGACGGT	2420
492	TTGAGCCTGATGACCTCCAC	473
299	GCGTTGTTCGTAATCAAGAAGC	278
286	GCGTTGTTCGTAATCAAGAAGC	265
1368	GGTTGACTGGTGGCTTGGCT	1349
977	GGTTGACTGGTGGCTTGGCT	958
169	ATGAGTGTAATTGGATTAGTTCAGTCTT	142
138	AAGCAACAATGAATGTCCGAA	118
220	ATGGTGGTGATGGTGGTGAC	201
129	CATAGACTGGCGGTGGAACA	110
357	TGAATGTGGAATGCGTTGTC	338
92	TTATTGCCAGTAAGTTCATCATCTGA	67
1237	CAGGAGCTGCTTGATGTGGTG	1217
293	GTGACTCTCGTAGTGTTGTACTCCA	269
170	GCTCTCCATCAGCTCCATGC	151
434	TGGTGGTGACCGTGATGATG	415
225	TCTTCTTCTTCTTGCTCCAGAACT	202
177	TCCTAACTTGTCTCGCTTCACC	156
126	AATATCCGGTGGTGTGTCG	107
156	TGTGTCTGTGAGTGCGAGGA	137

249	CTCCTCCTCTTCCACATCATTG	228
310	TTCTGTCGCTGTAGGATTGTC	289
1092	TTCAGAGAGGTTTCATCGTATCGTT	1069
772	CAGACCGAACGAGCACCTTG	753
1064	ACAACCACCACGCTCCAACC	1045
158	CACAGACGAGCCGCTGTGTC	139
124	TTACCAGTTGCACCATCATCA	104
281	TGAACATCCAGTTGCATTGC	262
297	AGATGTCATGATTCCGGTGAA	277
242	TTGATTACGAAGAGCATTGAGAAC	219
1039	TTCCGTTGACACTCTTCGTTGA	1018
446	CTGACATTCCGAGTGCTTGAG	426
122	CGCTCACTCACCATTCTCTT	102
949	CGGATAATAGATGATGGACGGATG	926
1140	TGGTGGTATTGGAGAAGATGG	1120
576	CCAGAGAAGCATAGCCACAGA	556
148	TGAGAACGTCGAGCAAGCAG	129
1866	GGCGTTCACCAGAATCACAT	1847
879	GGCGTTCACCAGAATCACAT	860
1860	GGCGTTCACCAGAATCACAT	1841
248	TTGCTGCTCTTGTTCTTATTCTTGT	224
178	TTGCTGCTCTTGTTCTTATTCTTGT	154
475	CTCCAACCATAGCCATCCAG	456
1594	GGAATGATAGAGATTGTGGTGGA	1572
274	CGACGATAACAGACACGAACC	254
137	AGTCGTGTCCTATCGTCGATTC	116
176	CATCGCATCTCTGGATCACAA	156
176	CATCGCATCTCTGGATCACAA	156
173	GCACAATCTCTCGTCTGAATCG	152
173	GCACAATCTCTCGTCTGAATCG	152
266	GCACAATCTCTCGTCTGAATCG	245
497	TCTCCGCAAGTATCCAATCCA	477
177	CGAACAATCCGATGCTGCTG	158
2049	GGTGCTGACTGGTGTGGTGT	2030
247	AGGAAGGCAAGTGAGAGCAA	228
221	AGGAAGGCAAGTGAGAGCAA	202
1051	GCTGATTGATATGCAACCATTG	1030
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954	CCATTCGTGAAGGAATTGTCC	934
355	AATCATCGTCGTGGTTGGTT	336
903	AATCATCGTCGTGGTTGGTT	884
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620 GTGTAACGGTGGCAGGAGAG	601
117 GGAGCACATTGAATAGGAGAGC	96
378 GTCGTGTTACATGATGTCCTG	357
144 GCGATATAACGACGACCTCCT	124
483 CCGCCACTAACAACACAATG	464
610 GCCTGCCGTCAGGAATACTC	591
641 GCCTGCCGTCAGGAATACTC	622
709 AAGCCTCACCAGCTTCAGAA	690
127 AGGTCATTGGAACGGCTTCTC	107
729 ATTGATGGACGGAAGTTGCG	710
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129 GGTGACGAGCACTTGGTACG	110
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425 TG TAGTAGGTAGACGAAGGAAGGC	402
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261 CAGTGGCGAAGAGAGCAGAGTT	240

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179	ACTTCCAGTGCTCGGCTGTG	160
257	ACTTCCAGTGCTCGGCTGTG	238
243	CGGAACAACAACAGTAACAGGA	222
243	CGGAACAACAACAGTAACAGGA	222
791	GACCTCACAAGTCCAGATTGCG	770
579	GAACGGACCACCACTAAGGAT	559
281	CGAATGACTCTGACAATGATGATG	258
534	CCTTGCGTATGTCTTGAGC	515
617	AAGGTCTCATTGTGTCTGGCA	597
188	GAGTTGGAGTGGTGGAAGAGC	168
398	CGAAGAAGAACGCTCATTGC	379
398	CGAAGAAGAACGCTCATTGC	379
449	CCTGAGAGTTGGATGGCTTG	430
664	TCATCCGATCCAACCGAGTA	645
525	CGATACTTCAGATCCTACTGCGAA	502
604	CGTCAAGAATCTCGTTCACATC	583
701	TTGTTGATGTTACGAGTGCTGTG	679
855	TGATGATGCTGGTGTGGAAGAAC	833
128	CCAGCATCGAGCAACTCTTG	109
148	CGAGCGTAGCGATGGAGAAC	129
188	CGAGCGTAGCGATGGAGAAC	169
220	CATAGAATCCTGTCCGAGCAA	200
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163	CCAGATGACGTCACCGCTGT	144
122	CCAGATGACGTCACCGCTGT	103
174	CCTCATTCTCTTGCTGGATACG	153
146	GGCTATTGCCTACGAGACAACTAGA	122
384	GAATCCTAACATTCCAACACTTCC	361
175	AGGCATCCGATGGATTGAAG	156
475	GTGCTCCAACAGTAACTTCGC	455
1780	GCATCACATAGTTCCAAGAGTTCA	1757
98	AACATACAGAATGTTGGATTGTCAG	74
1783	GCATCACATAGTTCCAAGAGTTCA	1760
1643	GCATCACATAGTTCCAAGAGTTCA	1620
173	TGCTCTCCATTACGGTTCCTC	153
170	TGCTCTCCATTACGGTTCCTC	150
618	ACAGATTAGAGCAACTTGACCGTA	595
997	AGTGAGTGGTAGTGGTGGTAACTGC	973
446	TGAATCATATTGGTTCTCATTAGGAA	421
133	TTGTGGTGTAAAGCGGCGATT	114
324	TGGTTATGATGATTGTAGTGCTGCTC	299
795	CATTGCTGAACGGTAGTCTCG	775
518	CATGCACATCGTGTGACCAC	499

470	CGAACGAGCACTTAGATAGACAGG	447
925	CAGAAGAATATGAGATTCGCTGACG	901
160	ACGAGATGATAGTTACGAGGAACG	137
106	ATGAGGCATCCATTACGCAA	87
614	CTCCTTGAAGTGTGGTCCGA	595
614	CTCCTTGAAGTGTGGTCCGA	595
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274	AGTAAGCGGATGTGATGGCA	255
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3118	CCGCAGAAGAGAGAGTGATAGC	3097
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338	TTGATGTAGGTGTTGGTCTTGGC	316
233	GCTGGAAGATGTGCGTCTCG	214
476	ATCGTACTTGCGGCTGAGAA	457
188	TGTGAGAGGAGTTGGTTGGAC	168
203	TCTGTCCAGAGGTCACGGTT	184
278	CCTTGTGGTACCTGACCGTCT	258
296	CTCAATGCGAGAGCCTGTGC	277
166	TTGGAGTTCGGTCCTTCATG	147
732	GCAATCCACGTATTGTCTAACAGT	709
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272	GCGATTCTGGTATGCTCTTCTC	251
372	GGAGCAGCCATCAAGCACAA	353
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332	ACGTTATGCTTCGTGGCAAG	313
1136	GATTCTTCTCACACCACGAGCA	1115
1007	GATTCTTCTCACACCACGAGCA	986
2486	CTATCTTCCAGTGAGTTGTATGTGTTT	2460
163	ATTCGCCGCATACCGTAACC	144
434	GCTGTAGTAGTGGCGGCTGA	415
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441 TGCCATCTTCATCGTAAGTACCT	419
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797 TAATCGCCAACATCCACTCC	778
725 GGTCATTGTGAGATCAGGCAT	705
901 AATAGAGGACACACTGCGAAGAC	879
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434 GTAAGCGAGTCCAGGAGTGC	415
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211	AAGAGATGGCTTGGTGAATCC	191
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774	GGCTTATTCGTTCTGTCTCTACTGC	750
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604	TCCGTGAAGGATAACATTGAACT	582
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264	GCCATCCAGTAAGCCTGTTGC	244
331	TAATTCCGAGCAACATATCTACAGA	307
503	GCGATGAAGCTGAACATGGTG	483
1080	GTTACCGATGAAGCTGAGACAGA	1058
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412	CACAACTCGGTGAACTTCTCTGC	390
773	GTGGACTCGAAGAGCAGCAA	754
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75	CGACGCATACGCTTCTTACG	56
139	CGTAGAATTAGTTAGAGTCCGTCTCC	114
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589	GCTCGTCTCCATTGTGTACTTCA	567
659	CGTTCGTTGGATGTATTCACC	639
314	ATGAGCCGAGACCAGCTTCG	295
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2723	AAGGAGACGGATTGGTTGAAG	2703
2666	AAGGAGACGGATTGGTTGAAG	2646
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2987	GTCGTGACCGTGTACCTTCC	2968
373	GTTGTTGACCTTGGCGGTGA	354
642	CGGCGGACAGTAGAATTGTG	623
123	TCCTCATCATCATCTCCGA	104
3570	CTCAGTTGGTGGACGATTACG	3550
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254	AGCATCCACCTACCATCTCCTTC	232
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1362	GTAGGACACTGGCGGACGAA	1343
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652	GTCCTTCTCTGCGTCTTCA	633
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526	TTCATCGGTGGTGTGATTCC	507
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437	TGAATAATTGGTCCTCTGTACTGC	414
560	AGATCTCCATTCATCGATTCTTG	538
1414	CACCGATGTTGGAATGTCAGA	1394
822	TGAGTCGGACGAATCGGATA	803
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271	CACCAGAAGTAACATCCGACGA	250
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262	AATCCGTCAATCATTGACAACA	241
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2296	TGATGTTGAGACTACGACGGACT	2274
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692	TTATCGTAATCAATGTCAACCATCA	668
3349	CCAATAACAGCTGCAATGACG	3329
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263	CCAGCAGTAGCAAGGAAGTTG	243
325	CCAGCAGTAGCAAGGAAGTTG	305
733	AGCTGCGAACTTGAGAGGAA	714
651	CAGTGATGATCTGGAGCTTCTTG	629
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230	TTGCTCATTGATCGTCTCTCAT	209
724	AAGTGAATGTTCCGAAGTGTGC	703
796	GCTCAACTCTCAGACTTCGTTCA	774
563	GTTGAATCGAGTTCGCCGTT	544
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121	AGGCGGTTAGATTGCTGAACT	101
487	TGAGGAACTCTCCGTAGTCGAT	466
899	GAGCCATGCTGCTCATCATC	880
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643	CGAGCAGTTGGATGATGATG	624
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697	ACATGGCAATTACAGGACGAG	677

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362	CGAGCCTCCGCACTAAGACT	343
365	CGAGCCTCCGCACTAAGACT	346
346	CGAGCCTCCGCACTAAGACT	327
348	CTTGTAGAGTGTCTGGTTGGTGA	327
1235	TGGTGGATACGGTGGACAATC	1215
269	AGCCGACAATACAAGAATCACAT	247
2337	ATTGACGATACGGCGACGAA	2318
1477	GTTCGTGGAGGTGTTGAGGA	1458
1355	GTTCGTGGAGGTGTTGAGGA	1336
1385	GTTCGTGGAGGTGTTGAGGA	1366
1298	GTTCGTGGAGGTGTTGAGGA	1279
1461	GTTCGTGGAGGTGTTGAGGA	1442
223	GTACATAAGCACGGATAATAGAGACTTC	196
1356	GGATTCGGTTGAACTCGTGGA	1336
2522	CGGAGAGTGTGACGATGAATGTAG	2499
336	GCGACGACTGGTCCAGAGCT	317
1512	TGATGATACTGCTCCGTCCTC	1492
418	GGATACCGTATTCATTGCGTGT	397
954	CGCCAACTGTCAATGTCCAT	935
150	AATAATAGAGAGCGCGATGAGG	129
225	TGTTGACCGCACCAATGTTG	206
422	ATTGCCATCTGTATTATGTTGAGC	399
339	AATCCTCATTGAATCCGTCGT	319
1380	CAGACACGCAGCCATAGGTA	1361
417	TGCGATCATAGTAGTTGTCCATCT	394
324	GAGCAGATACTGTGTGAAGAGCA	302
176	TTGTCCATTGCTCCATAACC	156
215	TTGTCCATTGCTCCATAACC	195
176	TTGTCCATTGCTCCATAACC	156
280	CGTTCGTGTGCCGACTTGAC	260
280	CGTTCGTGTGCCGACTTGAC	260
2263	TGGAACATCATTATCTGGTGGA	2242
2263	TGGAACATCATTATCTGGTGGA	2242
2247	TGGAACATCATTATCTGGTGGA	2226
2247	TGGAACATCATTATCTGGTGGA	2226
280	ATGCTTGAAGTATGCGGTT	261
2327	TGGAACATCATTATCTGGTGGA	2306
2327	TGGAACATCATTATCTGGTGGA	2306
1505	TGGAACATCATTATCTGGTGGA	1484
1505	TGGAACATCATTATCTGGTGGA	1484
295	ATGCTTGAAGTATGCGGTT	276
295	ATGCTTGAAGTATGCGGTT	276
1988	TGGAACATCATTATCTGGTGGA	1967

280	CGTTCGTGTGCCGACTTGTAC	260
280	CGTTCGTGTGCCGACTTGTAC	260
154	TCTCTCTATCACGCTCTCAATCACTATC	127
139	ATTCTATTACACACACACACGGA	116
385	ATCCAGGTGTGCAGAATCCA	366
413	GAGCCATAAGCAATCCAACGG	393
170	GTGTTGATGGTTGAGTGAGGTTGA	147
170	GTGTTGATGGTTGAGTGAGGTTGA	147
899	GTATGTGCTGAAGCGACGATT	879
196	TGTGTGCAGCAAGAAGTTCCTC	175
125	CAATCAAGAGTCTTCAGAAGACGA	102
126	GCTGGTCTGAACTCTCTCAACAATC	102
185	CCATCGCTCTCTCATCACTTG	165
756	TGATTCTTCTTCCTCCTCGTCA	735
189	TGGTTGGATGAAGTCAAGGTG	169
1656	AGCCACCATTGCCTCCAGAA	1637
1649	AGCCACCATTGCCTCCAGAA	1630
1713	AGCCACCATTGCCTCCAGAA	1694
1768	AGCCACCATTGCCTCCAGAA	1749
380	CACACACAATGTCTACACGAAGCG	357
442	CACACACAATGTCTACACGAAGCG	419
368	CACACACAATGTCTACACGAAGCG	345
601	GCCATCACGAATGTGAGAGC	582
660	GCCATCACGAATGTGAGAGC	641
463	GAATTGCGAAGAAGGTTATAGTCAC	439
591	TTCCTCAGGAATCCATTGAAGA	570
91	CAACATTAGCAACAGTACCAACAGA	67
1275	TGCAGACAATCTTGAATCACACT	1253
116	AACGACGCAACTCGTATGCA	97
116	AACGACGCAACTCGTATGCA	97
264	TGGTAACGAGAACAAACAGCATT	243
217	TCTTGAATCACGTCGAGATCG	197
179	CATGTAACATGTATTCATAGTTGCATTC	152
1060	CGTTGGCGAGGACTGAGATTC	1040
1199	CGTTGGCGAGGACTGAGATTC	1179
1202	CGTTGGCGAGGACTGAGATTC	1182
1032	CGTTGGCGAGGACTGAGATTC	1012
1172	CGTTGGCGAGGACTGAGATTC	1152
174	GAATCTTTCATAATCAGCAGTGGA	150
2371	CCTCTTCAACTTCAACATTCAACATCA	2345
146	CGCTCCACTTCGGTCCTTAC	127
146	CGCTCCACTTCGGTCCTTAC	127
263	CAACAGCAAGTACCGTAACCG	243
263	CAACAGCAAGTACCGTAACCG	243

263	CAACAGCAAGTACCGTAACCG	243
321	AATGACTCTTCACCAGCACCA	301
149	GGAGATTCGATGGTGGAGAA	130
114	GCATCATTGGTCGTGGATTG	95
350	CAGATGTCACAGGCAACACGAC	329
121	CCACGAAGACGAGGTTGTATG	101
328	CACGATGACTTCACCTTGCTG	308
1185	CCATAGGTACATCTACATCAAGCG	1162
1255	CCATAGGTACATCTACATCAAGCG	1232
1185	CCATAGGTACATCTACATCAAGCG	1162
1255	CCATAGGTACATCTACATCAAGCG	1232
1425	AGTTCCATCGCCATCTGACATC	1404
276	CGTGACTIONACAGATACAAGACCATTG	251
373	GCTCTTGGATGACGGATGGA	354
373	GCTCTTGGATGACGGATGGA	354
373	GCTCTTGGATGACGGATGGA	354
509	AAGAGCACATTCCACGCATC	490
547	ATGTTACTTCAGGAATTGATGGATC	523
94	TGGAGTGGCTGCGAATGATG	75
239	CCACGCATATCAATTACCACAA	218
239	CCACGCATATCAATTACCACAA	218
397	CAATCGGTGGCTTGGTCTTC	378
216	CTTGCTGGAGTTGGCGAAGA	197
216	CTTGCTGGAGTTGGCGAAGA	197
319	CTTGCTGGAGTTGGCGAAGA	300
319	CTTGCTGGAGTTGGCGAAGA	300
158	GGTCTCCACAATCTCAACTCG	137
158	GGTCTCCACAATCTCAACTCG	137
397	CAATCGGTGGCTTGGTCTTC	378
397	CAATCGGTGGCTTGGTCTTC	378
319	CTTGCTGGAGTTGGCGAAGA	300
239	CCACGCATATCAATTACCACAA	218
214	CGGAGCGCGTTATCACCAAT	195
183	AGAGCTAATGCGATCCTGTAGGT	160
321	AATTGCTCGTCTTCCATCACA	301
129	CATTCTGGCAGCTTGTGTG	110
284	TGGAATCTCCTTCTTGGTCCT	264
339	GAATGATGGATTCAGCAGGAA	319
132	TGGCGCATTGTAATGTGGATT	112
264	TCTCAAGTCGACTTCCAATGG	244
2486	AGGACGAAGCTGTGAAGTTGA	2466
2617	AGGACGAAGCTGTGAAGTTGA	2597
380	TTCTGTTGAAGTGGAGTGATGAGG	357
413	GACGGTAAGCTGCTGTGGTG	394

269	TCAGCGAACGAACGAGACTT	250
1154	GAGCCAATGATCGCAAGTTC	1135
142	CGTGAAGTCCGTAGTTGCC	123
500	CGTGGTGATGGTTGTAGATGG	480
1178	TGCGTCTGTGCTTCAACTCG	1159
978	TGCGTCTGTGCTTCAACTCG	959
193	TGGCACAGTTCTTCGTAGCA	174
193	TGGCACAGTTCTTCGTAGCA	174
1674	TTACCACATCTTCAACTTCTCCGA	1650
1145	TTACCACATCTTCAACTTCTCCGA	1121
283	TGCTCCTGGTGTTGCTGTAG	264
153	AGACCAGCCGAGATAACAGACAA	131
138	AGAGCACAACCAGAGAAGAAGAAG	115
323	CGTTCCTGAGGTGGATGTGC	304
1140	GAGGATGTTACCGTCGTCAAGA	1119
675	TGAAGAAGCCAGGCTCCAAT	656
1138	GCAACAACCTCATCAATAACCG	1117
1603	CCACTGACTCCAACAACATCG	1583
3738	GTCACGGACAGAAGGAGCAT	3719
181	GATTAGGCAAGCATAGACGAGCAA	158
153	GCGAATTGGACAAGGTGTGG	134
562	GTGACTGTTGCGGAGAGCCT	543
562	GTGACTGTTGCGGAGAGCCT	543
854	GACATTACGAAGGCAAGTGAGAA	832
854	GACATTACGAAGGCAAGTGAGAA	832
231	GCTGACAGGAAGATGTAGAAGATGA	207
154	GCTGACAGGAAGATGTAGAAGATGA	130
630	GAACTTGATGAATCCGACACCA	609
2536	GCAGGCACATCAGACAATACAG	2515
2580	GCAGGCACATCAGACAATACAG	2559
1093	TGTAAGTGTGCGCAGAGAAGACG	1072
1152	TGTAAGTGTGCGCAGAGAAGACG	1131
2423	GCATACATCAACGGTAGTGAGC	2402
1053	CTTGATATACTTCGATCTGTATTCCG	1028
1063	CTTGATATACTTCGATCTGTATTCCG	1038
425	TCCTCCGTAGGTTGTTGAGAA	405
626	TCCTCCGTAGGTTGTTGAGAA	606
314	ACAACCATCGAGCTGTCCGT	295
96	TGTGTCTTCCAACATTCTTCGTA	74
126	GAGCTGTCGCTGCTTCATGC	107
126	GAGCTGTCGCTGCTTCATGC	107
388	GTTCTTATTCTTGTCTCCACAGT	364
222	CATATCATCTTGCGTTGTGAGC	201
540	TTCCATTCTCGGCAACCAC	521

532	AGAATGGAACCTCGCCGTAT	513
131	TGATTGGTGGAAGTCGTGTGA	111
464	ACCAGTCCAGTAGTTCCAACAAGA	441
118	TTGTTGCCGATGTTCTGTTG	99
1026	CCTTGCCACTGCTGACCACA	1007
833	CGAAGCATTCCACGAACTCC	814
501	TCGGCTGCTTCAGTAACACCA	481
311	TCGGCTGCTTCAGTAACACCA	291
739	CCATCTCACCGATTCCAGTC	720
927	AGAGTTGATGCGTCTGGAGAA	907
1014	AGAGTTGATGCGTCTGGAGAA	994
1048	AATATCCGCCGAACGACAGT	1029
4479	GCATCTTCTTCCTCGGCAAT	4460
293	GCCTTCTCTGGAGTGATCAAGA	272
793	AGAACACGGAGAGGAGACTTAGTG	770
320	CCAATACGAGAGTTGAGGAGAGA	298
188	CCAATACGAGAGTTGAGGAGAGA	166
238	GGAACCAGCCAATACGAGAGT	218
322	GGAACCAGCCAATACGAGAGT	302
348	GGAGCACAATTCCAGAGTGAA	328
479	GGAGCACAATTCCAGAGTGAA	459
200	GAACGCCAATTACAATATTGCTT	178
1159	TTGATGATGACTCTTGATTGTTCTC	1135
713	TCTATCTCTCCATGTTGCTTGTC	690
638	TGTTCAAGGTGGCATTATGGC	619
475	AACACGATGAAGTTGATCTTCGA	453
227	GCATATACGAGTTGATGGAGGCA	205
1038	GCGGAAGGACGGATAACAGA	1019
332	TGATACGTTGACACCAACAGAAC	310
7476	TGTTGAATCCTGACGAATGTATG	7454
279	ATACCACCTCCGGATCTCGA	260
590	ATGACGGCAGTTGACACGAA	571
455	GGTGACAGATGAGTTGATAGTTGGA	431
662	GGATTGAATGGAGTAGGTGATGA	640
267	GGATTGAATGGAGTAGGTGATGA	245
167	ATGAAGTGTCTAATCACTTAACTGGAAT	140
162	TGTGAGAGTGAGTGAAGAGAGCA	140
395	ATGAGGCAAGAGAGTCGGAA	376
592	TTGAGATTGTGTAACCTGGAGGAAGG	568
364	TCTGGTCCGTCTTGGTAGGC	345
390	TCTGGTCCGTCTTGGTAGGC	371
674	CCGACGAATGAAGATGTTGC	655
219	TTGAACCAACTCATTGTCGCT	199
846	CGAGCCTTATTGCGATGTTC	827

846	CGAGCCTTATTGCGATGTTC	827
153	GCTCCGTCGCAATTCAGAGG	134
3200	CTGCTTCATCTGCTCTTGCG	3181
504	TTCACATAATCCGTACATCCGA	483
901	CACATGCCTCTGAATTGCGA	882
781	CACATGCCTCTGAATTGCGA	762
478	CCGCATCTCCACAGTCATAGC	458
478	CCGCATCTCCACAGTCATAGC	458
814	GGCTTCTGCTTCTCTCCTCTC	794
260	CTCTGATGGAGCTGCGTTCC	241
283	CACGTGGCAGGTGTTGTCAA	264
487	GAAGGTGGAAGAGTGTCTCGAA	466
1181	ATCCTTCGTTCCAGCCATCT	1162
1770	AAGAAGCCGACCATCCTCAT	1751
133	TGGAGGCACCGAATGAGAAC	114
3588	CGTGTCAGTAGCGTCATCGTAGA	3566
3588	CGTGTCAGTAGCGTCATCGTAGA	3566
2576	GCGTCCGATGTCAACCATGT	2557
2057	TGAGAAGAGAAGATGAGGCGACA	2035
348	TGATTCTGAGTTCATTGCTCCA	327
1277	GCAACAATGAGTCCGCTGAT	1258
2020	AATGAACGTGTTGGAGGCAA	2001
1089	CGAAGTGAACGCCATAACCA	1070
265	AGGTCGCCTCTTGCTCGTTG	246
972	TGCACAACAGAATCCTCCAA	953
1249	TATGTGGTTGTGCGGCTGAC	1230
1249	TATGTGGTTGTGCGGCTGAC	1230
2598	CTGGCGGAGGATTATGTTGT	2579
2598	CTGGCGGAGGATTATGTTGT	2579
732	AACCACGACAGCGAACAAGT	713
316	CGACTTCCGATCACAATTCC	297
549	AACCACGACAGCGAACAAGT	530
388	AACCACGACAGCGAACAAGT	369
240	AGTTGGAGTCGGCATCTGTC	221
326	TGAGATAGTGGAATACAACATGACG	302
359	TGAGATAGTGGAATACAACATGACG	335
646	GAGAAGCGGCGTTGACAGTT	627
646	GAGAAGCGGCGTTGACAGTT	627
219	TGACCAGACGAATCCGAACA	200
219	TGACCAGACGAATCCGAACA	200
485	TGACCAGACGAATCCGAACA	466
752	TGACCAGACGAATCCGAACA	733
300	TGACCAGACGAATCCGAACA	281
132	CACATTCTTCTGACGATAGAGCGA	109

839 TCACAGAAGCGAGAAGACCATC	818
478 TTGTTCTTCAGCGATTCTTGC	458
492 TTGTTCTTCAGCGATTCTTGC	472
941 CCGATTAGGATGGTGACGAC	922
248 TCCACACTTCCACGAATCTCTT	227
644 CCGACATTGAGCATTGATTG	625
433 GAGAGGTCTGTGAAGAAGGCGAT	411
587 GAGATAGTACTCGCGGAGTTCGG	565
198 TCACGTCGTTGATGGCTTCC	179
383 GCCATCATCACGTACCAATGC	363
118 TCAAGTGCTGTGATCGTTCG	99
131 TTGAAGTAGGCGAGGTGGTG	112
1442 GCTCCGAGGAATTGTCCGAA	1423
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1384 TTGGACGTTCATGGAGCATT	1365
455 AATGTCCGCTTGTGAGATGA	435
150 ATGTAATCCTGATAGATCCTTCTTCG	125
357 GTCGTCGTCGCTAATTGGC	338
541 GCTGCTGCTGGAGTAAGTCG	522
392 GCTGCTGCTGGAGTAAGTCG	373
372 CGAGGAGATGCCATTGTCAT	353
609 GAATAGACGGTCACGCAGGAA	589
263 CGAGGAGATGCCATTGTCAT	244
713 GAATAGACGGTCACGCAGGAA	693
591 GAATAGACGGTCACGCAGGAA	571
1262 CCTGAATGTGAACGAATGCG	1243
402 CCGCTGTTGAATGAGTCTGG	383
884 CCTGAATGTGAACGAATGCG	865
485 GTACCATTCTTCGGTCTCATACG	463
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117 CACGCTCCTGATGCTTGAAG	98
4429 TCCACAACCTGAACACTCCGA	4410
206 CCGTAGTATTCCAGCCAGACA	186
1599 GGAGAGACCACCGACGAGAA	1580
139 ACTTCGCTCCTGTGCTCGTG	120
749 CGACGGAGTACGAGATTGAAG	729
626 CGACGGAGTACGAGATTGAAG	606
310 GTTCAGGCTGAGACAGTGCTC	290
339 GTTCAGGCTGAGACAGTGCTC	319
1152 CGCTCTCCATAGTCGCATTC	1133
515 TTCTCACCAATGTTGTTTCATCAGC	492

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259	TTGGCTTCTCCTTCCATGCA	240
284	ATATACTGCTCGAGTAGTTCAAGCC	260
517	CAGAGCAATGACGTTTCATGC	498
418	AGTGAATGAAGACAGTGGCGTT	397
617	AGGCGGAATAAGGAGTGTGAT	597
592	TCGCAACAAGATGACTTCGTC	572
419	GCAACGGTAACAACGATGATAGTC	396
705	GCTATGTCTGCTGTTGTTCCG	685
572	GCTATGTCTGCTGTTGTTCCG	552
167	TCATTCCATCATCACAAGTCTCA	145
163	TCATTCCATCATCACAAGTCTCA	141
206	ACAGCATCTCGTTGTCACTCC	186
1332	TGATTGTCTTGACGCTACGACTGAA	1308
1330	TGATTGTCTTGACGCTACGACTGAA	1306
831	CAATGTAACCAACTGCCGCTT	811
601	GGATAAGACGATTGATGGTATTACG	577
184	TTCTGTGAGCTGCTTCTTCGC	164
294	CAGATTGTGTTTCAGCCTCAGC	274
216	AGTAGCGAAGAGAGATGAAGAGAGA	192
219	AGTAGCGAAGAGAGATGAAGAGAGA	195
219	AGTAGCGAAGAGAGATGAAGAGAGA	195
351	CATAGGCGGCACCAAGAGTT	332
625	CATAGGCGGCACCAAGAGTT	606
376	TGGATTCACTGGTGTACGGAT	356
159	TTGTTGCTGCTCTTGCTCCTC	139
465	GAAGTGACGGCGAATGAATG	446
276	AAGTGTTGAACGATGGTCAGAGG	254
372	AAGTGTTGAACGATGGTCAGAGG	350
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276	AAGTGTTGAACGATGGTCAGAGG	254
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276	AAGTGTTGAACGATGGTCAGAGG	254
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94	GTGTTGAACGATGGTCAGAGG	74
372	AAGTGTTGAACGATGGTCAGAGG	350
2039	GGTGGTAGGAGAATGAGTGGCT	2018
1462	CGGAGCCTAAGCACACAAGA	1443
520	AGTGGTGGAATTGATGGTACG	500
891	TCGAACATTGGACATTGGAAG	871
977	TTGATTGGAACGAGCTTGCC	958
977	TTGATTGGAACGAGCTTGCC	958

239	ACGGTTCTCGCCTTGTGGAC	220
1869	AACGGAGAAGGCAGGAGGAT	1850
1823	AACGGAGAAGGCAGGAGGAT	1804
363	TGTCCTTGGCTCGAATGAAC	344
3814	CTTCAGAGACACAGGTAACATTCACT	3789
3919	CTTCAGAGACACAGGTAACATTCACT	3894
324	GGATGGTGTTCGGTAATTGTATC	302
3919	CTTCAGAGACACAGGTAACATTCACT	3894
860	TCTGGTGTCAACGAATGTAGA	838
147	CAATCGACTTGATGAGAAGCATT	125
510	TTGGAGTGGCGATTGCGTAG	491
256	CCGTTGTTCTTCTCGTTCTCA	236
838	CGTGAATGTCTGCTTACACAG	817
566	CCTTGTGGTGGATTGATTGTTGA	545
220	TCCAAGAACACCATATGTCTGC	199
309	TGACTGTTGGATCGTATAAGTTGTC	285
1774	ACCACTGCGGATCTTCTTGA	1755
1774	ACCACTGCGGATCTTCTTGA	1755
765	TGGAAGTGCTGGAGGACCTA	746
200	GCTTCAATCATGCCACTGACA	180
140	TATCTGCGTCTCCGACCGAT	121
986	CTCGCAATGTCCGTTCAGTG	967
1039	CTCGCAATGTCCGTTCAGTG	1020
399	TGCTGATTCTGTGGTAACTGGTC	378
823	GCTGGCAGTCCTGGTTCTCC	804
338	CAGATAGCTCACCAAGAGAGACAGG	314
992	CCAGTTGTTCTGAATCCTCCA	972
427	CTTCCTTGACACTTCTCGTCTCTG	404
1028	TCTTGCTAACTCGACGTTGTCTT	1006
928	TCTTGCTAACTCGACGTTGTCTT	906
225	CATTCTTGGTGTGCGTGGAC	206
189	TTGACTCCGAGACCGGCATT	170
294	ACGAATGCAGATAACCACAATCAC	271
812	CCATGACAACTGATTCACACG	792
267	AACGACCACAACCACGACAGT	247
346	CGGTAGTTCCTCCTTGTGTGG	326
225	AATGCTGGTTGCGATAAGTGC	205
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145	CGACGACTCCGATGACGATT	126
136	GCACAACGAGGAACACTACGA	116
322	AACCTCCGACGCACAGAAGA	303
841	TGACAACTGATCCACAAGCG	822
157	CAACCAACACAATCACGACGA	137
365	CCGACAAGAACAGTTACAGAGCA	343

645	TGGAATGTGAAGAATGGCAGA	625
327	TGGAATGTGAAGAATGGCAGA	307
327	TGCAGCCGCCATCTTCTCTT	308
312	CCAAGCAGGCAATGACAGAA	293
160	TCCGTTGACTCCTTGACCAG	141
196	ACTCCTCCGACTCCTGGTTG	177
115	GCTCTGTGTCGCTGTCCAAT	96
1851	CAGCTTGGAGAGCATTATTGTG	1830
204	CATCCAACGCAGACGACGAC	185
204	CATCCAACGCAGACGACGAC	185
139	TTCCTGCTTCAACTGCTAACACTT	116
131	TGGATTACACCAGTGTACATATCACA	106
188	GGCTCACACAGACGCTCAGG	169
126	GCATATGCGATGTGACAAGTGA	105
138	ATGTTCAACTTGTCCGACGAC	118
4629	TCTGGTACTGTGGAAGAACGG	4609
3067	CGCATCATCTCTAACATACTCCAT	3044
3067	CGCATCATCTCTAACATACTCCAT	3044
430	CGCCTTCTTACTGATCGCTT	411
398	CGCCTTCTTACTGATCGCTT	379
145	GGCCGAGCATTAAACATTCTC	126
143	GCTATCGCTCTCTTCCAGTGA	123
1140	ACAACCACATCCATCCACGA	1121
1226	ACAACCACATCCATCCACGA	1207
523	GTGGAAGCGGATGCCTGACT	504
802	TGAGTAGAATGTGACGGTGCA	782
2044	GGTTGGCACTGACATTACTTGA	2023
181	CCTGTGCTCCGTAGTAGTCCTG	160
384	GCCTGAGTCACATCTGAGCGT	364
682	GAAGCAGGACTGGAGCGAAC	663
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917	GAATATCAATACGATTGGTTGCC	895
1290	GAATATCAATACGATTGGTTGCC	1268
128	AATTCTCGAGTTGCGTCGCA	109
144	AATGAGACGAATTGCATGCTT	124
2187	CTGAACTCCAACCGATGCCA	2168
139	GCACATGGAGACATGTTGCA	120
1794	CGAGAAGAGCATTGAGCCAT	1775
1788	CGAGAAGAGCATTGAGCCAT	1769
1138	GTCTGTTGAGCTGCGGAGAG	1119
587	GAGCTTGCTGACAACCTCCTT	567
230	GTCAAGGAATGAGGCACCAC	211
184	CGGAGAACACATCACGAGCA	165
244	AGACATCTTCAGCAAGGACAAGA	222

1182	TGTCGGAAGTCTGCTCTGCT	1163
175	GATGATAGATGAATGTCGCCTTG	153
486	GGACAGGACCAAGTGGAGCT	467
1780	CACCGTCCAAGAACTCCTGA	1761
1035	GGCTTCACGTTCTGGTGTTCT	1016
1274	CAAGCTCACCACGTTACACGAC	1254
521	TGAACATTGCTCCGAACTGC	502
450	TCTGGTCATCTTGGTTGAATCGT	428
381	CCTATTGGAACATAATCGTGAGAGAT	355
1227	ACTCATCAACATCTTCACATCTCTTCT	1201
1227	ACTCATCAACATCTTCACATCTCTTCT	1201
999	TCTGAAGTTCTCCATCTCCACA	978
2269	CAAGTGATCCAACAACAGAACTCA	2246
506	TGGAGCAGTTAATGAACCGTT	486
324	TGGAGCAGTTAATGAACCGTT	304
171	TGGAGCAGTTAATGAACCGTT	151
414	AAGTGCTTCGCATCCACATC	395
414	AAGTGCTTCGCATCCACATC	395
235	GGAATGGTTGACGATTACGCA	215
185	GGAATGGTTGACGATTACGCA	165
619	GCGAGCTTGAATACTGATGGC	599
134	GGAATGGTTGACGATTACGCA	114
227	GGAATGGTTGACGATTACGCA	207
247	TGCTCTCCTTAACACCACGGT	227
121	CAGAGAGCTCCACCTTGATCA	101
2293	AAGCCTCCGTACAACATTGCATA	2270
186	GCGACAGAGGACAATGATGGTAA	164
1035	CGAGACGACCAGAACGAAGA	1016
2198	GGATAGTGGTAGGCAATGTAGCA	2176
946	TTGGTCTGAAGAAGGCGTATG	926
188	TTGTGCTTGATTCTCAATGCTT	167
1353	CCAAGTGTGCCAATCAGAATC	1332
460	CACTTCCACAATCGTAGCACTC	439
641	GCAGCGTTGGATAGTATGTAGCC	619
807	GGAAGTGAATGAAGCCGCAA	788
361	GATTGAGGTAGGAGCGGTCA	342
372	ATGAGATTGAGCGGCGAGGT	353
437	ACCGACACATCAGGAGTTATCAC	415
549	GCTTATCTCTGATGCGTTCTGC	528
255	CAGCCATACTAGTGGTGCAGAAC	233
261	CGCCACTACTACCAGATTCCA	241
176	CCAAGCGGACTCCACGATCT	157
125	GGTGGTGAATGCTCACAGA	106
1056	AACATCAATGACCGAATCAATAACC	1032

984	TTGAACTCGAATGTACTCAAGTGC	961
974	TTGAACTCGAATGTACTCAAGTGC	951
2785	ATGCCTGTTGTCTCATATAGTACCAT	2760
531	TGTTGATGTGACGATTCCAGTT	510
92	TGCAGAACTTGAACATTAGCTCAGT	68
181	TGCAGAACTTGAACATTAGCTCAGT	157
263	AGATCAAGCTGGCGTTGTAGG	243
465	CGATGATGGAGGAAGGAAGA	446
565	GCCATATCTTGACGGAGAACACT	543
479	GCGATGAAGAACATTCCAGTTAGAAC	454
88	CGTCTTCAGGTTTCGTCAGCAG	68
771	ACAGTATGCCTCGGCCACTT	752
121	CAGGCTCCGCAACACAACAC	102
294	GGCGTATGTCCGAAGATGTG	275
392	TCACGGAGACATTCAAGAGGA	372
473	TCACGGAGACATTCAAGAGGA	453
813	TCCATAGTAGAATGTCTTGTCACCGA	788
813	TCCATAGTAGAATGTCTTGTCACCGA	788
830	GCTGTCGGTACATATACTGAGACTAAGG	803
682	TTGAACTATCACCTCGATTGTCG	660
1103	TCTCCGTCACCTCCACAGGT	1084
118	CGCTGAGTTCTTGATTGTGGT	98
310	AGTCGGAAGGAACTGAATCAAC	289
143	GTAGCCACCGTAATACTGACCAG	121
256	ACTCGGAGCGGTTCTCTTGA	237
733	GA CTCTCGGTTGGCTGGATT	714
797	GA CTCTCGGTTGGCTGGATT	778
625	CAAGAGCCTTCAAGCAAGCC	606
130	TTCCATTACAGAAGTAGATGGC	108
493	ATCGCAAGCATCCACCAAGC	474
326	ATCGCAAGCATCCACCAAGC	307
417	ATCGCAAGCATCCACCAAGC	398
374	ATCGCAAGCATCCACCAAGC	355
1198	CACGCTGGAATGACTCTGGT	1179
481	GTTGCTTCACGGAGACGATG	462
132	CGATGGATATGCGAGTTGAGC	112
1813	GGAAGCTGTAGAGCTGGATGC	1793
689	CTTCCACATTCAATTCGTCGTT	669
481	TGTTGGAGCAGTTGGAGCAG	462
158	TCCTTATCTTCTGGTGGAATGTTAC	134
235	CCGCATTGTTTCGTTTCGTAG	216
128	CGGTACCATCATCTCCGAAGA	108
154	TGCTTCCTTCCTCACTTATCTCA	132
121	TGTATTCAATTGCGGCTTCA	102

126	ACAACTGTGTGATTCAGATTCAGAA	102
520	AACTCTGCTCGGAGATTGGAA	500
242	CCAGCAACTCCGCTAACTCC	223
252	CTTGATGCGTCCAGCAACTC	233
91	CAACCTTGCGGAGAGACTCA	72
103	CAACCTTGCGGAGAGACTCA	84
353	CAGATAATGAGTGTGAGGATGTGG	330
244	TTCGAGGATTGATGAGCACTT	224
164	TTCGAGGATTGATGAGCACTT	144
693	ACATGGTGTTCAGCTCCAG	674
384	ACATGGTGTTCAGCTCCAG	365
326	GGAACATTGATGAGAAGATTGAGA	303
285	GGAACATTGATGAGAAGATTGAGA	262
123	ATTCATTCAATTCGAGGAGGAG	102
1411	AATCACATCCAGTCATTCTCGTT	1389
1252	TACTGTAGGCGTCGGATGGA	1233
209	AACTGCTTCATAGTCATCTCCGTAT	185
330	AACTGCTTCATAGTCATCTCCGTAT	306
175	CCAAGCATCATTGGCGTAAG	156
862	TTCCGACATAAGCCATTCTT	842
127	AAGTGTGTGAGGCGGCCTAG	108
127	TTGCTACTTCCACAACGACGT	107
258	CCGCTTCTCTCATTGCTTC	239
120	TTCTCTGGAAGACGCACGAC	101
207	TGGTGAGGTGACGAATGACG	188
506	GACTTCCACGAGAACGTCCTT	486
431	TCTCAACAACACCTTCAACTCG	410
6651	TGAAGCACTCCAACGATGATG	6631
975	CAGATACATCGTAGTTGATAATGAGTGA	948
573	ATATCCAACGACAAGAGCCATT	552
827	GCACACCATCCAAGAAGAGC	808
573	ATATCCAACGACAAGAGCCATT	552
573	ATATCCAACGACAAGAGCCATT	552
787	TCGACTTGACACCGATCATG	768
1254	GGCGAGATGAGATAGTGTCCA	1234
1112	GGATGTAGTTCTCACGATTGGATGG	1088
1158	GGATGTAGTTCTCACGATTGGATGG	1134
249	GGATGTAGTTCTCACGATTGGATGG	225
255	AACATGACTTGTTGAACACGATCT	232
238	GATGACACTCCATTTCGTGTTAGATG	214
1147	TCTGGACAACCTTGGCTCATAGTGG	1124
935	GAGATACGCTCTTGAATAAGTCCTG	911
2108	CAGCATTGTTGATTAGGAAGTTAGTG	2083
800	GCAGGTCCATTGTTGAAGACA	780

165	TTGCTTCGGAAGATGGTTGC	146
507	CACACAACCTACCAGCAGCCA	488
161	GTTACTTGCGGAATGTTGGAA	141
161	GTTACTTGCGGAATGTTGGAA	141
161	GTTACTTGCGGAATGTTGGAA	141
130	TAGACGAACAGCCAGCCATC	111
554	GCTCACTTGTCATGCGAACA	535
161	GTTACTTGCGGAATGTTGGAA	141
839	GATATGTTCAATTGACTTCTTCGGT	815
149	TGCAATTGAAGCATATCTCGTT	128
690	CACGTGGTTGATAACGGATTG	670
658	CGTTCGGAGAACAACACCAC	639
187	AGCCGACGAGGTCCTCACAT	168
996	GGTCCTGGCACGATGTCAAC	977
1053	GGTCCTGGCACGATGTCAAC	1034
1053	GGTCCTGGCACGATGTCAAC	1034
963	GGTCCTGGCACGATGTCAAC	944
420	TTCTGCTGACTACACGATTCTTG	398
420	TTCTGCTGACTACACGATTCTTG	398
275	TTCATGTGGCACGAGGCATA	256
233	GTGTCACAAGTCCGCCTCTT	214
1101	TTCTGGTGGATTGAACGAGTAAC	1079
1255	TTCTGGTGGATTGAACGAGTAAC	1233
1104	GTCGTTGCGGTCGTTGAACT	1085
1258	GTCGTTGCGGTCGTTGAACT	1239
317	CGTAGGTGAGGAGTATGATGGTG	295
317	CGTAGGTGAGGAGTATGATGGTG	295
371	ATGGCTTGGAGATGTAACCTTGTC	348
344	ATGGCTTGGAGATGTAACCTTGTC	321
1311	ACGAAGACCGAATGAAGCAG	1292
120	CGTGGCCTCTTCTTCGTCTT	101
782	GACGAGAAGCGAGGTGAACG	763
123	GGAGAGTACACGACGGTCACG	103
125	GGAGAGTACACGACGGTCACG	105
249	ATTCAGCGTGAGTCCTTCGT	230
571	GAAGGTGGCGATGTTGTGCT	552
301	TTGTTGGAGTGGAGGTCGTG	282
85	CCTGAATGTCTTCTTGAGTCG	64
460	TGCTTCGTCAACTCTTCCACT	440
460	TGCTTCGTCAACTCTTCCACT	440
460	TGCTTCGTCAACTCTTCCACT	440
1254	GGTACAAGCCGACGAGCACT	1235
1172	TTGTCAAGATCGGATCGGTT	1153
556	AAGTGTCACAGGTGTAATCATCTGC	532

176	CCTGTACTTCTCTCCGATGTCG	155
176	CCTGTACTTCTCTCCGATGTCG	155
397	GACGCTTAGTATCGGAATCTCG	376
237	AGGCCAATCGCGAAGTTCTG	218
1010	TGTTGGATGAGAGAGACGAGCA	989
554	TGTTGGATGAGAGAGACGAGCA	533
752	TGTTGGATGAGAGAGACGAGCA	731
403	CATAGCACTTAGGTATTGGCTCTGT	379
755	AAGTGCAACATGCACATGAGAT	734
6098	ATGGAAGCACACGAGTTGGC	6079
139	GAAGTGCGACCTGGCGAGAT	120
133	CTTCGTGCTCTTATCAAGAGAGG	111
446	TGAGTCTGGAACAGCAGCATC	426
2018	CGTCGTGAACTGGAAGTCTCG	1998
419	GGTGTGCTGAAGGAAGAGA	400
2024	CGTCGTGAACTGGAAGTCTCG	2004
167	CGATTCAACGCGAACGGACT	148
1556	CAAGTCACGGACGAGCAACG	1537
1598	CAAGTCACGGACGAGCAACG	1579
618	CAAGTCACGGACGAGCAACG	599
1111	TCGTGATGATGTTGTTCCAGA	1091
231	CTTCGTCGCATAGCACCAC	212
1257	TCGTGATGATGTTGTTCCAGA	1237
133	AAGGCTAATTCTCATGCGTTAGG	111
226	TTCATTCTCACAAGCACATTCTG	204
122	CCTGTTGTGTTGTCGTTGATTG	101
423	CTCTGACGCTCGTTGGATA	404
236	CACGCAGAGATGGTGACAGTT	216
440	GAAGTGGATGCCTCTTGTTGG	420
440	GAAGTGGATGCCTCTTGTTGG	420
168	TTGGCGACTATAAGAGATATTGAGC	144
192	AGAGCAGACAGCGAGACACC	173
138	AATGAGAGATGGAAGACGGAGAGT	115
134	AAGCGACAACGAGCTGTCAA	115
412	CATGGATGTCGGCAGATTCTG	393
790	CTTGTTTCATAATCGACGGATCA	769
736	CGATCTCACCAGTGTCTAACTTGT	713
267	CATATCGTCAGGAAGTTCCAGAA	245
374	TTGACTAATTGATGATATCGTTCTTCA	348
861	GATTCCATGAACTGCTATTGAAGACAT	835
454	TGACGCCAAGTACGATGAAGT	434
1163	GACAATCAATCCAATACATATCACAGA	1137
233	TTGATAAGGTCTCTATTGTGCTGGAA	208
241	CCTTGTAAGAGTAATTGGATGAATCG	216

532 TTGATAGAAGTTGGCTGATGATAGTTAG	505
367 GCAGGCAGTAGATGAAGAGACAA	345
885 CAGGCAGCTGAGATATGGATG	865
177 GGTATGTAGAGCCATGTAGACAGTGTA	151
140 GGTCTCGCCACGATCGACTA	121
525 CCTTCGTAGAGTCCATGTCCTT	504
451 CGAGTTCCACGAGACCACGA	432
197 CCTCAAGGAATGGTGGAGTC	177
692 TCATTGTCATCACTGTTGCCA	672
869 GCGACGATTAGCTTGTGCTC	850
869 GCGACGATTAGCTTGTGCTC	850
159 GGAATTCCACAAGGTGGAGATC	138
171 TGAAGGCAATGAGCTGAGAGT	151
505 CCAACCATCTGGTGGAGGTT	486
502 GGTGTGGTTCAGTCGCTTG	483
310 GGTGTGGTTCAGTCGCTTG	291
1200 CTCACCAACTACCATCACATCCG	1178
1263 CTCACCAACTACCATCACATCCG	1241
1273 GCAGTGGAATGTGGCAGTGT	1254
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1273 GCAGTGGAATGTGGCAGTGT	1254
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1086 GCAGTGGAATGTGGCAGTGT	1067
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1273 GCAGTGGAATGTGGCAGTGT	1254
1273 GCAGTGGAATGTGGCAGTGT	1254
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878 CGTAATGTACCAGCCATATCAACT	855
168 AACAAATCATTATCACTGCACTTGA	144
272 CCATTCGGTGTCAATACCAGAA	251
132 AGCTCTAAGTGCTGCTTCTATTGAG	108
487 ACTTCTGCGAACACATTGAGC	467
920 CGTTCAGCGGATTCTCTTCG	901
112 GAGGTGGTGGAAACATCAAGG	93
495 ACATCTGCCGCAACACGATA	476
128 GGAGGTCAATTAGCTGATAAGATCA	104
540 AACGCCACCATCACCTAACC	521
140 TCAGAGAAGGACATTGATGAGAGTT	116
448 TCCGCTTCCTGCTTCGTAGA	429
391 GAGTAATCGACAAGATTCGTGGAAT	367
1107 GACTGCTCAACTCTTCCACGA	1087
226 GACTGCTCAACTCTTCCACGA	206

2568	TCAGTATCCTTG TAGACGAACGG	2546
533	TGTACAATATCCGTGTTCCGATT	510
149	CATCTCCTCGTCCTCTTCAGTTAG	126
155	CATCTCCTCGTCCTCTTCAGTTAG	132
149	CATCTCCTCGTCCTCTTCAGTTAG	126
149	CATCTCCTCGTCCTCTTCAGTTAG	126
149	CATCTCCTCGTCCTCTTCAGTTAG	126
172	CATCAGCCTGGTAGAACAATAGATC	148
208	CCTCGTACATGATAAGCGTCAA	187
240	CCTCGTACATGATAAGCGTCAA	219
862	GTGGAGTTGGTTGCTTGCTC	843
531	AGCACAATCTTCGCCATAGCAG	510
1536	GCCAGCATCCTTCAATACTT	1515
396	AATGATGAGATGGAGGCAACA	376
962	TCACTCGACGTTACGCATT	943
280	TTAGCAGCAGATGCGCAAGT	261
152	TCATCAGTGAGAGCAGCAGCA	132
475	ATTGCGATGATGTGTAGCCA	456
475	ATTGCGATGATGTGTAGCCA	456
845	CAATGAGAAGCGGTTGTCCT	826
269	CAACGCAAGATTCACTCTGTGT	248
112	GTTGAGCCAGCTGAGATTGC	93
267	AATGTTCTCACGTCCACGGAATC	245
1551	GTGAGCCAGTTGAACGATGC	1532
1551	GTGAGCCAGTTGAACGATGC	1532
155	CGAAGAATTGCTAATCCTCCAG	134
366	CATTAGAGAGATGAAGCCGAGAG	344
150	CATTAGAGAGATGAAGCCGAGAG	128
1329	GCTCTCGTGAGTTGTGATAACATCTTC	1303
413	AGCGGAAGCGAAGATTAGGAA	393
888	ATGTCCATCCGAGCACAGTG	869
2342	GATGTTGATACCGACGGCTT	2323
185	TCACACAGTGGACAGAGGAGTTC	163
1433	TAGGTAGGCAGCGTCACAGG	1414
169	CGGTCGTTACACGTTACAA	150
836	TCGCATCGTCCAATAATCAGA	816
735	CACATTGAGAGCACGAGCAT	716
1773	TGCTCCGAATCCAACCTCCAG	1754
120	TCTCTCGGACCGCCTCAGAT	101
133	GTAGCAGGTCGTTGTTGTTGG	113
87	TCTCTCGGACCGCCTCAGAT	68
197	GCTTCTTGTAGTTCTCGGTCTCG	175
197	GCTTCTTGTAGTTCTCGGTCTCG	175
473	GCCGAACACAAGAATAGAGCAG	452

270	GCCGAACACAAGAATAGAGCAG	249
151	GCCGAACACAAGAATAGAGCAG	130
1049	GCGACATGCCAAGTGTGAGAA	1029
94	GCCACGATGAGAACGATGAC	75
80	GCCACGATGAGAACGATGAC	61
554	CGTCGTCCAGTGTTGATGTTG	534
627	CGTCGTCCAGTGTTGATGTTG	607
474	TGAGAGAGAAGATGTTGACGATGAAG	449
567	AGAAGCAGAATAGTTCCTGAGTAAGTC	541
510	AATTGCTCCACGGAAGGCTT	491
1000	TTAATTATTAGATTCATTGGATGCTCAT	973
384	TCGGCTGATAGTGACACGAA	365
159	AATTGTAGATATCATGATCAGGCATC	134
1537	GACGACGCTTATGATAGATGGTT	1515
1585	GACGACGCTTATGATAGATGGTT	1563
338	GATGGAGACGCCACTGATTC	319
418	TGGAGCAGACAGAGTTCGTG	399
1783	CCACCGTATCCTCCGTTGTCA	1763
1894	CCACCGTATCCTCCGTTGTCA	1874
1709	CCACCGTATCCTCCGTTGTCA	1689
1763	CCACCGTATCCTCCGTTGTCA	1743
2060	CCACCGTATCCTCCGTTGTCA	2040
1964	CCACCGTATCCTCCGTTGTCA	1944
783	TTGTAGAGAACGAGCCAGAGC	763
349	GGTCATTAATAGGCGTCGTGA	329
592	CATTGACTATTGTATTATCAGTGGCA	567
442	GGCTGACCTGAGATGGATGG	423
1149	CGACAAGGTGACACTGGTAGTCTC	1126
1173	CTAGCTCCGCAGAGTCGTT	1154
1109	AATGTGACGCTCGACTCTTCA	1089
593	GGAGTCGGATGTGTGATGTCG	573
134	AACATGGTAACCGCATGCTT	115
336	GGAGTTGTTGACGATGGATATTCC	313
657	CCGAATACTGCGATGAAGAGC	637
657	CCGAATACTGCGATGAAGAGC	637
381	CACAGGTCCAAGGAGACTATTCCG	359
320	GGACTCATCACGATATTCTTGCC	298
1061	TGAACTCCACGCGAAGTTCT	1042
763	TCAGGCTGTTGTGAGTTATTGAATC	739
264	CGCTAGACGGCAGTTCCATT	245
219	GCACACAATTAGTATGTAAGCCACTT	194
231	GACTTGCCGAGACTGTATCCA	211
231	GACTTGCCGAGACTGTATCCA	211
178	TCTGGTAGAACTCGTCGTCAGC	157

138	AAGTTGTTCTGAGTGAATGTCGTC	114
142	AATTGAGACGCTCTGATTCGG	122
467	AACCGAACTGAGCAATGAGAA	447
738	TGGCTCAATACAGAATTCTTCAGA	715
287	ACATTCCTCATGCACATCACC	267
493	AGAATGCTTCATCGAATGCG	474
325	AGAATGCTTCATCGAATGCG	306
582	ACACTTCTCGTCAACTTCGTCATAC	558
123	CGAAGTGAGTGACTGAGAGCCT	102
121	AATGCGCAGCTTCAGCCTCT	102
586	TCTCACGAACATCACCACAGTC	565
567	GAGAACGACGACGAGGAGAA	548
545	GAGTGAAGAGCATATGTGATGAGG	522
200	GGCAAGAACACCAACCATACC	180
1157	GCGGCTTCTTCAGAGGTTGT	1138
365	AGAGAGTAGCCATGTCTGAATATGC	341
122	TCCGAGCCACTTGACCACTT	103
307	TCCTTGTGGACCGGCTTCTC	288
178	CGTAGATGTCTCTGGCGGAA	159
285	TGATACGATGACGGACCACA	266
108	ATGGACTGACAGATTGTGATGG	87
108	ATGGACTGACAGATTGTGATGG	87
141	TGTGATTCTTGTCCATTGAGA	120
121	ATGCCTCCGTAGTGGTCCAT	102
242	CAGATACATCAATCATTGCTCTACAAGG	215
1297	TGGATCGTTGTCATCTCGGA	1278
1291	TGGATCGTTGTCATCTCGGA	1272
1329	TGGATCGTTGTCATCTCGGA	1310
127	GGCTCTGTAGTTGACCATTCCG	106
108	CCATTCCGTCCACATTCCTC	89
108	CCATTCCGTCCACATTCCTC	89
128	GAATTCAATGGATATAATTGCTCTCTT	102
660	TCCAATCTCTTCAATCGTGTCTT	638
2329	AGTCGGATGTGCTCTTCGTC	2310
141	ACTAGTGCTCGCGTGTGTGC	122
614	TGGCTGTTGTAGTTGTGGTGGT	593
596	TGGCTGTTGTAGTTGTGGTGGT	575
247	CACTTCGTCCGTTGTTGCCA	228
2838	CAACTCCTTGAGACGATCTGCTT	2816
1768	CGAGACGAGGTGAAGGTGAAGG	1747
1766	CGAGACGAGGTGAAGGTGAAGG	1745
1334	CCAGAGAGCAGTGACGACAA	1315
1312	CCAGAGAGCAGTGACGACAA	1293
1316	CAAGTTGGTCGGATCTTCGG	1297

1328	CAAGTTGGTCGGATCTTCGG	1309
1515	TGATGTGTAGTTGGATGGAGGA	1494
427	AGTGAGGACGCAGGAACCAT	408
421	AGTGAGGACGCAGGAACCAT	402
502	AGTGAGGACGCAGGAACCAT	483
458	AGTGAGGACGCAGGAACCAT	439
329	TGGCTCGTTGACAGTGATGA	310
733	AGGTGTATTGTCCTTCATAATGTGC	709
781	GCACGGAGCCAAGAATCAGT	762
1230	AACACCTGCGATGATTGCCA	1211
131	GGCTCCGGAATGTGTATTGG	112
290	TCGAATACGGATAGAGCGGTT	270
1369	CGATGAAGAAGTCACGAGACAAGT	1346
1087	TGATATTGTCATTCCATAACATGAACAG	1060
578	CAACTTCCATCTTCGTTACGG	558
514	TGGAATCTTCATTGTAGACGGTT	492
811	AGATTGGAAGAGAAGTTGCTAACC	788
521	GCTTGAAGCTCCATTGTTGC	502
648	GCTTGAAGCTCCATTGTTGC	629
309	CGGCATTGTTGAGATTGCTT	290
446	GGAAGTATAACAATGATGTAGAACGG	421
199	CTTCTGTTATACTTAATTGCTTCCAAGA	172
1158	CCTTCATCATCATCTTCTTGTCG	1136
1486	ACTGATTGTGGTGTATGACTGCTT	1463
1815	ACTGATTGTGGTGTATGACTGCTT	1792
128	GAAGTGGTTGGTGAGCCGTT	109
1758	ACTGATTGTGGTGTATGACTGCTT	1735
210	CATTGGTTCACTACGACTTCGC	189
128	CATTGGTTCACTACGACTTCGC	107
506	TCTCCTCCACAGTCATCATGG	486
200	GCCTTCATCTCGTTGTCATCG	180
217	CAGCAGCGACAACGAAGCAT	198
271	CAGCAGCGACAACGAAGCAT	252
352	CAGCAGCGACAACGAAGCAT	333
217	CAGCAGCGACAACGAAGCAT	198
301	GGTGAGATCCTGGTGAACCG	282
178	TCTCCAACCTCTCCAATAACC	157
129	CACCACTCGTCCAGCAGTCC	110
125	AATACAATAGCTGGCTGACAGAGG	102
561	CGAACTTCCAGGTGTCATAGAGA	539
125	TCAATCGTTGAATATGAATTGACTG	101
134	CAGTGAGCAGTAACAATGAACAAGTG	109
1322	CATCGGAGAATCATCGACA	1303
121	GCGCACTGATTTCATCATCCA	102

381	CATCATATCAGATGCAGCGAA	361
244	TGCTGGATTGTCGTAGTGCTC	224
209	TGAGTTGCTGGATTGTCGTAGTG	187
152	CCTTCTTCATCTATAAGTTCCTCCA	128
313	TTAGATGCGTCCGAGTTCAGG	293
340	ACGGCGTCGTCTACTTGGAA	321
261	CGCCTGAGTCTCCTCAACGG	242
255	CGCCTGAGTCTCCTCAACGG	236
539	TCATCTCGTCGGAACAGCTC	520
1201	AAGTCGCAGTGTCGAAGGTT	1182
918	CCGCAGGTA CTCTACACAGACATCA	894
1354	CATCTTGGTTGACTTCGGTGA	1334
155	TTATTGCGTGGAGTGTGGTGTG	134
451	AGATGTTGAAGCGGATGCCT	432
480	TATGACGGCGGAGAAGAAGG	461
480	TATGACGGCGGAGAAGAAGG	461
545	TTATAGAAGAGATTCACGTCTTGGC	521
1451	TGATGACAGTTACCACGGCAA	1431
670	TGAACCAACAGTATATGACAATAGAGAA	643
731	AGACGAACGGCTACAGTGGA	712
268	CGAGTTGATCTGCGATCTCTACA	246
513	GTTGAAGTTGGTGAGCATTGTATC	490
326	AAGAAGTGAATCGCCAGAAGG	306
210	AGTTGGAAGCACGCAAGGTT	191
119	TGATGTCCAATGGCATATTCGA	98
608	GCGTTGGAGTAGAGAATGTTGG	587
627	GCGTTGGAGTAGAGAATGTTGG	606
702	GCGTTGGAGTAGAGAATGTTGG	681
608	GCGTTGGAGTAGAGAATGTTGG	587
627	GCGTTGGAGTAGAGAATGTTGG	606
702	GCGTTGGAGTAGAGAATGTTGG	681
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1475	CGCCACTTGTCACACTCGCT	1456
303	GGTTCACATTGAAGACGACGAG	282
435	CTTGGCGAACCGAATAGTTG	416
149	TTGTTCAACTCCACCGGATT	130
174	CACCACTTCTTCTCGGCTCTT	154
206	GCCTTCGCCTCATTACCTC	187
103	TGGCAATCGTCACTGGAGAA	84
771	TCTCATCTCGCAACTGTACGC	751
1918	GGATGAGCAGATGGCACCAC	1899
180	CGATGTGTCTGTCCTATTATTGTTG	156
1080	TGACATTACGGTCTCCACTACTTG	1057
285	ACGAAGATTGAAGTATTGGTTGG	263

177	GGACCAGAATGAGGCAGCAG	158
235	AAGATTACGCCAACTGTGTGAA	214
478	GGACACAACAGTGACAACAGCA	457
1797	TTCACAGTCTTCTCCGCAGTT	1777
781	CCACGACTATATCACCATTCAACTC	757
352	TCCATTCTCCAGTTCGCATT	333
140	TCAGGTTCTTCGGATTGCCA	121
277	GACGCCGAGATTGAAGATGA	258
264	ACTTGCGTGGTATGCGGTTG	245
261	GGTCCGACTGCTTCTGGATC	242
1880	ATTGTTGCTGATGTCGTTGAAC	1859
513	TCGAGGCGTCTGAGAAGAGC	494
133	CGTGTGATTCGTTGTTGAGG	114
447	TGTGGAAGTAGGCGATGGCT	428
447	TGTGGAAGTAGGCGATGGCT	428
212	GAACACTCATATTATCGGCAACG	190
319	TGTGGAAGTAGGCGATGGCT	300
160	CGTCAGCACGAACAGTCTCTG	140
556	TGTCACTCGGTCGGTTCGTT	537
120	GGCTCTTGTGTGACGGATGG	101
166	GGATGTTCCATAGTCATGTTCTCA	143
584	GGAATATACGTCTCGTTGGTTGA	562
251	GCAGATCGGAGGTTGGAGTT	232
818	GGACGGATGAGTTGTTGGCA	799
853	TTCGGTGGTGGTCTTCTTGG	834
223	CAGACTTGACACGCAGGACTTC	202
291	CAGAGTCATCGGACTTCTTGATTG	268
140	TTCACTGAGCACGATGGATTG	120
138	TCCTCGGCTTCAACAATATCC	118
2363	CTGTTGGATGGACTCTCTGGA	2343
171	CGAAGAGCCATTATTGTTGCCA	150
511	AGAGCCATACGACGAGCCAA	492
606	TTGATTCATCGTTCACCACTGC	585
540	TTGATTCATCGTTCACCACTGC	519
202	GTACGCTACCGAACGCTCAT	183
297	GATGGATGAAGATTGAGGATTAGGTG	272
460	TCTGTGTGTAGGTCTGATACCATGT	436
973	TTGTTGAGACCAGGAGACGCA	953
1002	AATACCACGGACCACTGAGC	983
447	TGAGCATTGACTACTGGAGCAT	426
547	GAGCACCATCAACATAGTCACAA	525
275	AATCCAGCGAATAAGAATATCCAA	252
436	TTGAGTAGGCGGTTGTGGAG	417
133	TGAATACCGAGAGGTTACCGATT	111

1115	GAGATCAGTGTCAATGCTCCAAC	1092
706	CGTCGTAGTGGAGCAGTGTGT	686
1735	ATTCAGCATCGGAGGTGTTG	1716
470	GTGACGACGTTCCGAGGAGT	451
546	TCTGCTAGGTTGATTGGTGTCTT	524
367	TTGAGCATAATTCGACGAGAGTT	345
169	GGTTAAGCTGACTACCGTAATCTCTT	144
1271	CGTTGACGATATGTCAGAAGTCC	1249
471	CCTGCTCCTTCTGATGATGC	452
471	CCTGCTCCTTCTGATGATGC	452
628	AGGCTTGTAGTTGCGGAGAA	609
558	AGGCTTGTAGTTGCGGAGAA	539
178	ATCTTCCACACGGCGACCAC	159
373	CGACGAGCACGATAATGACG	354
113	TTGGAGCACAGCGATATATCC	93
177	GATCTCTGACAGACTGTGCCATTC	154
122	CGATGCAATCTATATGCAGTAGTGAT	97
153	GGCTCCTTCCTTCGTCATTG	134
210	CCTAACTTCACATATCTCATCAATGC	185
1034	CACGAGACCAAGCGAAGATG	1015
1054	CACGAGACCAAGCGAAGATG	1035
1081	CACGAGACCAAGCGAAGATG	1062
319	CACGAGACCAAGCGAAGATG	300
157	GCTAATTGAGAGCCTCTACTTCTCG	133
1789	CTTGGACTCGTAACATCTATCGC	1767
1643	GTTGATGCCTCTGTCGTTGC	1624
1499	GTTGATGCCTCTGTCGTTGC	1480
220	AACCGCTTCTCGTCGTCATC	201
222	GCTCGCTTGTCGATCTCCAG	203
340	TCAATCCATAACCACCAAGCA	321
118	TCATTCTCGAATCGTCCAGAA	98
478	GATGAGATAACAGCCAACCAGAA	456
359	GATGAGATAACAGCCAACCAGAA	337
167	CAGAAGAGCAGGCCACTACG	148
193	ATTCGTCGTCATCGTCATCC	174
196	GGCTCAATTGCTCAGAATAGAGAGT	172
154	TCCATCAACCTCGTCATCATCA	133
424	TTACAATGAGATGTTGATGGACCTT	400
310	TTGAGAATAAGAACAGATGTCAGTAGG	284
466	CGACGACAATGATTCAAGGAG	446
190	GTTCTTGTTGTTGAGTGGTTGC	169
531	TTCATCTTGCTCATCCACTGC	511
301	TTCATCTTGCTCATCCACTGC	281
1171	TCCATGTACTATCGACTCGTTCTG	1148

999	AGACACCGCTAACCACACGA	980
196	CACTGCTACTTCCACCAACTCC	175
257	TGTATTCGACAAGCAGCCAA	238
971	TACCGGAATTGGTTGTAGCG	952
332	GTGCTTAATGACATGTTGTAAGTGACTT	305
132	CCTGCTCACCGATAAGTTGC	113
285	CAATAACAGGTTAGCTCATCGGATC	261
338	GTTGAAGAAGCCGTGCGATT	319
1144	CGTATGTTGCTCCAGTGGCTT	1124
1370	TCCTGAATAATGGCAATACGCTT	1348
1522	TCGCCGAGATATTAATGTCAACT	1500
408	GCGTGTGATGTAGTTGTTCTTGTTT	384
874	CGAATGAGAGTGATGATAGTTGACG	850
232	TGCTTCTTCAAGTAAGGAACGAT	210
512	GGAGAATGAGACTTCGTCGGAT	491
271	CACTGCGTTCTAATCTTCGGA	251
359	CTTATGGCGGATGGACTTGA	340
1050	GACTTCCTCAACATCTCCACCTA	1028
307	AGTAGCATCTAATAACTCGCCTTGA	283
344	AGTAGCATCTAATAACTCGCCTTGA	320
611	TTATTCCAAGTTGACCATGTCGTT	588
328	GAACGGATAGGATGATGAGCA	308
672	CACACAACAACGGTATCCACA	652
322	TGAAGTGGACAACGAGGAGAGT	301
668	CAGAAGCACATCGTAGAGACAGA	646
653	TGATGTTCTGGTGCCATATTAGG	631
104	TCCAAGTTGAAGAGCAATACCA	83
227	GGAGGAATTGTGTGTGATTAAGACTAGC	200
579	GCTGAATATCCTGCCATTGTTG	558
461	CCATGTGTGGAGTTGAATGAGT	440
461	CCATGTGTGGAGTTGAATGAGT	440
390	CATTGCACATCGTTCTATTCTTCT	367
456	CATTGCACATCGTTCTATTCTTCT	433
443	ACACCAGCTTCAAGCACTCC	424
594	AATGTTCTTGTAATCGTGTTGCTAGT	569
677	TCACGAACAGCATCAGCCAA	658
129	TGTAGTTGTAGAGTAGAGGAATAGCGA	103
1167	TTCGCATTGAGATTCGTTGTC	1147
1175	TTCGCATTGAGATTCGTTGTC	1155
1254	TTCGCATTGAGATTCGTTGTC	1234
1736	TAATGAAGACGGCGAACTGC	1717
1747	TAATGAAGACGGCGAACTGC	1728
330	GGAGAGCACCAATAATGTCTTCG	308
255	TCCGTGTTGGTTGATGATTG	236

532	GATGATTGGAGAGGCGGACA	513
554	GCAGATGGTGTGAACAGACG	535
643	CTTGAAGATGGTTGAGTAGAGGAAT	619
1988	TCTTCATTCTTGACCACGCA	1969
1007	TTCGGCTTCATAATCGTCTACAG	985
348	GGTTGCGTCGAATAAGTCTTGA	327
348	GGTTGCGTCGAATAAGTCTTGA	327
180	TCAACATAATCACCAATACTCTCATG	155
249	GATAAGCAAGGATGTGTCGGAA	228
1381	TTCTAACTCCTTCGGCTGCTT	1361
216	ATCTTGACGTAGCGGATGATCTC	194
700	TTGTTCTGATGTTGGACTTGCTT	678
351	CGACTTGAGCATCACGACAC	332
132	CCTTCCAATATGTTCAACCGACT	111
122	GCATTCGTCTGTTGAATCGGT	102
850	TGCAATTAAGTGCAAGTCAAACTC	827
1192	TGTTGCTGAGTGCCTGTTGA	1173
230	TGAAGTGATCTAACGATGATTCTTG	206
1373	GGTAGTAAGGTAGAAGTAAGTGTTGACG	1346
111	TTGCTCATTAGGTGGCGATT	92
2433	GAGGAAGCGACTGACGAAGC	2414
2422	TGCCAACCATTAGCCATACTGA	2401
130	CGCTTCTCGTCTGCTCTCTCT	108
653	GATACGCAGGCATCATGTTGT	633
669	GATACGCAGGCATCATGTTGT	649
729	GATACGCAGGCATCATGTTGT	709
669	GATACGCAGGCATCATGTTGT	649
729	GATACGCAGGCATCATGTTGT	709
729	GATACGCAGGCATCATGTTGT	709
561	GATACGCAGGCATCATGTTGT	541
669	GATACGCAGGCATCATGTTGT	649
558	GATACGCAGGCATCATGTTGT	538
984	GCCAACAATTGTGGATGCTT	965
1646	GAGGAAGCGTGTATCGGAGA	1627
148	GCTTACATCCTCACTTCTACTTCTTGC	122
114	TTGGTCGATGGACGTAGAGG	95
1858	TCCGTGTCTCCATCAATGAAC	1838
1879	TCCGTGTCTCCATCAATGAAC	1859
346	GCGAGTCAAGTTGTTCAACAT	326
506	TGACTTCACTCTCATTGCGATT	485
663	AAGACAATTGCCTTCTATTCCG	642
2020	GGTGGATGGAGCAGCAGTAG	2001
493	CGGATGACGAGAGTATTGCTTATAGC	468
519	TGAAGAATGAGAGGCGAGGA	500

853	CGCTGATGTTCTGAAGTGTGA	833
154	CCAACGTGGACTTATAGCTCTTCA	131
1986	GCGTCGATGAACTTCTTCTTCC	1965
345	AAGTAACTCACTTCTCATCAATGCA	321
553	GCGAATGTTCCGAGAAGAAG	534
1324	TGGAAGAACGAGGAGAGCGA	1305
230	TGATATCAGACATACACCACCATCA	206
172	TTCTCCTTCAACTTCTTCCATCC	150
144	CCTGACGGCTACCTTCTTACC	124
104	CGTGCTCCGACATATTGTGC	85
125	CGTGCTCCGACATATTGTGC	106
125	CGTGCTCCGACATATTGTGC	106
237	AATTGACATCAGATCGGCAGA	217
666	CAGGTGACAGTAATAGTTGAAGGCA	642
573	CAGGTGACAGTAATAGTTGAAGGCA	549
315	GCAGAATGGTTGATCGCATG	296
678	CACTGACGAATGTTCAACCGAT	657
621	CACTGACGAATGTTCAACCGAT	600
382	CACTGACGAATGTTCAACCGAT	361
590	CACTGACGAATGTTCAACCGAT	569
159	CCTCGCCAGCCTACTTCCTA	140
238	ATGCGGAGGTAGATGGAACA	219
484	CCTCATTAACACATGAAGATTGGA	461
191	TCCATTGTGTCGTCTTCATCA	171
432	CAGTCCTGGAATGCTTGTGG	413
734	GAAGTTACATTGGCAGTCGTTG	713
93	TTCTGTGGCTGCTGGTGAGT	74
493	GAAGACGACGAGTTGTCACCA	473
317	AGTCAGGTTGCTCTCCATTGTC	296
738	TTGTGAATCGAGTCCTGGCT	719
267	GGATGAGATCGTTGAGCGTT	248
159	GCTTGGTGATGAGTCCGTGA	140
341	TGCAATAATGTAGCACCAGAGG	320
244	GGAATGAGAACCAGCCATCA	225
127	GGCATGAAGAGACCGAGAGA	108
913	GCAGTAATAATCGCATCGTGAC	892
3495	TGGAAGTGGACGGTATTGGTAA	3474
127	CCTCCTCCTCCATCCACTCC	108
790	AAGGTAACGATGACGAATTGTTC	768
223	CAATCATTCGCAGGTCACAA	204
424	CAATCATTCGCAGGTCACAA	405
141	CAATCCAGTCCATTCTCGTGT	121
173	AAGATACACGAGAATGGACTGGA	151
285	CTGCTGAATGCCAACAAGTAGA	264

134	TGACGGAATAACCTTCAGCATA	113
241	GATTCATTGTGTCATCCATCTTGA	218
609	GCCATCTGCTCAGCGATGAG	590
316	AGTTGGAGAGGCTGGTGAGG	297
478	TTCGTCCGTTGAGCGTATCG	459
1229	GCTAGCATGGACTGGTCGAC	1210
127	GGAAGTAGCGAATACGAGTTGC	106
416	TGGCTTGAGGAACTGATGGA	397
781	TGTTGAATAGGTATATAGACGTTGTCG	755
1457	CGCTCTGCTCATTCTTCTCAA	1437
1457	CGCTCTGCTCATTCTTCTCAA	1437
482	TGGCACGAGAACGAGACGAT	463
362	ATATTCATCTCGTCGGAGTGGT	341
760	TGTGTGAACGCATCGCAGAA	741
398	GGCTTGTGCTCCAACTGGTT	379
396	GGCTTGTGCTCCAACTGGTT	377
256	TTGAGTTGGAACAGCAGATGC	236
368	GATGACCTCGTGTCCAGTGA	348
1184	CCGACTCAATAGCCTCACGA	1165
451	TTGTTGAAGGAATCCAGTATAGGAA	427
331	TGATGAACCAGTACATTCCATTG	309
144	AATGCTTGCAACGGAGAGAT	125
2352	TGGTGGATGAGGATGAAGGA	2333
228	TTGGATGAGGTGGATGAGGTG	208
2437	TGGTGGATGAGGATGAAGGA	2418
615	CATTGGTTGTGATGTGGAGTTG	594
499	CGACTATTAGGCTATCCAGACAGAA	475
275	AGGAGTAGTAATGGACGAAGGAATC	251
516	TGACAGGTAAGTGGCATCGG	497
162	GGTTCAGGAACAACGGATT	143
189	GTGAAGCCATGTACTCTGCCA	169
215	GTGAAGCCATGTACTCTGCCA	195
1832	CCAAGATTGTGAAGATCACGGAT	1810
6432	GCAACCGTCTTCCTCCTCTACAAC	6409
254	CACGTCACTCTCACTGAACTCG	233
250	TCTGTTCACTGACACGTCGCT	230
1811	GCGAGATGAGTATTGGTTGAGG	1790
1811	GCGAGATGAGTATTGGTTGAGG	1790
1811	GCGAGATGAGTATTGGTTGAGG	1790
1916	GCGAGATGAGTATTGGTTGAGG	1895
1916	GCGAGATGAGTATTGGTTGAGG	1895
1916	GCGAGATGAGTATTGGTTGAGG	1895
754	TGGTTAGGATTGGAAGAAGGAA	733
698	GTGAAGATAACACGAGATTCTGGAT	674

210	AACTCTGACAGTGAACACTCCTGTT	186
454	TCACTGTCTGATGAATCTGAGTCA	431
1259	AGCAACGAAGACACGGACTG	1240
1443	AGCAACGAAGACACGGACTG	1424
1264	AGCAACGAAGACACGGACTG	1245
1450	AGCAACGAAGACACGGACTG	1431
669	TTCCAATGTCAATGCTTCTTCA	648
669	TTCCAATGTCAATGCTTCTTCA	648
249	CGATTGACGAGTCCGAGTTG	230
1233	GCATAGGCTTGAATCGTGGA	1214
1233	GCATAGGCTTGAATCGTGGA	1214
1162	GCATAGGCTTGAATCGTGGA	1143
1006	GCATAGGCTTGAATCGTGGA	987
628	GCCATCCACGGTTGATTAGG	609
1738	TCGGAGGACTCTGATTCGGA	1719
1738	TCGGAGGACTCTGATTCGGA	1719
1738	TCGGAGGACTCTGATTCGGA	1719
394	TGAAGACTCCTCCTCCGCAT	375
405	TGAAGACTCCTCCTCCGCAT	386
393	TGAAGACTCCTCCTCCGCAT	374
1952	AGCAATAAGATAACGACACCTCCT	1929
522	GTAGCCGCAGCAATACTCGT	503
786	GTAGCCGCAGCAATACTCGT	767
172	TGAGTTGTTGCTTGTAAGGACCT	150
671	TTATCGGTGTCGTAGTTACCATCA	648
678	TTATCGGTGTCGTAGTTACCATCA	655
703	TTATCGGTGTCGTAGTTACCATCA	680
4399	GGAGTTAGACTAATGTCGGCGGTT	4376
1209	TCATCTTCATCAGTCATATAGGTCCA	1184
945	TCATCTTCATCAGTCATATAGGTCCA	920
500	TCATCTTCATCAGTCATATAGGTCCA	475
190	TCCATGCAGTCCTGACAGAA	171
121	AAGGATGGCAATGGAATGAGTC	100
145	GCCTACAACATGATCTTACGCAGA	121
121	TTGAGGTGTTGTTGTTGCC	102
122	GCCTCAACGAACATCTCCAC	103
974	AGACTGCCACCAACACCTGA	955
1163	GCCTGTGACCATTCCATCTC	1144
1163	GCCTGTGACCATTCCATCTC	1144
359	CTTGGATTACTGTGTGAACTGCGT	336
444	AAGAATTGCCAACGCATCAC	425
899	TTCCAAGCAATGACAGCAGTT	879
983	ATTGAATCACTGACTGAATGAACCAT	958
1028	CTTACTGTATGTGGTGCTGGTTGAG	1004

899	TTCCAAGCAATGACAGCAGTT	879
764	ATTGAATCACTGACTGAATGAACCAT	739
379	GAGTGTTGACCGTGCTGCTT	360
258	TGTGTAGGTTGTCGTGCGGTT	238
249	CAGTGTGAACTTCGAGTTGTATGG	226
258	TGTGTAGGTTGTCGTGCGGTT	238
120	GGCTAGTTCCATGTTGTTTCGG	100
222	TGTATTGGCGTATTGTTGAGCA	201
986	GCCATTAAGAAGAGAAGAGTTATTGAG	960
629	CAGAATCCTGCTCGCAACTTG	609
783	TGGTGAGTTGTGAGCAGAGGT	763
1069	GGCGACACGATGAATGAACT	1050
141	CACTTCCACTGTTGCTCCGT	122
196	GCTCCTCGCCACTTGACACC	177
996	AGCTCTCCGTGTCGTGGAAT	977
916	AGCTCTCCGTGTCGTGGAAT	897
540	GAAGGAGGTGGACGATGAGA	521
546	GAAGGAGGTGGACGATGAGA	527
443	TGTCGGCGATTGAGAGGATT	424
646	ATCCTGGTGAGAGCCTTCCG	627
256	GAACCGTCTTGTACCGATGG	237
419	CAGTTGACAACGATCAGTCCAA	398
749	GCACACTTCTCAACGGCTCT	730
586	CCTGCTGCTTCTTGGCTTGA	567
1822	CTTCACGGAGCAACTTCATAGAG	1800
289	GCACTTGACAAGCTGACAACAAC	267
478	AGTGCTTGCTTCAGACTTCGTT	457
478	AGTGCTTGCTTCAGACTTCGTT	457
482	TTGGTAGATAATCTGACAGACGCA	459
437	TTGGTAGATAATCTGACAGACGCA	414
1472	CCTTCTTCATCGGAACGGAT	1453
510	CCTTCTTCATCGGAACGGAT	491
445	CATGTAATGTCATTATTGTGGTCAGA	420
248	CGGAACATTCGGATTGAGTC	229
219	CGGAACATTCGGATTGAGTC	200
143	CCAGAACCATTTCGATGCAGT	124
472	CGTTCAGGAGGCTTACAGTTG	452
223	CAATGGCTGCAATCATGTACC	203
444	TGAACTGCTTCCTGATTGACC	424
601	CCTCCGTTTCAGAAGGCTCAA	582
601	CCTCCGTTTCAGAAGGCTCAA	582
608	CCTCCGTTTCAGAAGGCTCAA	589
837	CATTGCTTGTCTCATCGTCACT	816
1140	ACCACCACTCAGCGATGTTC	1121

490	CTTGTTGTTGATTACTCACAGGATG	466
216	CGTATTGGTGAAGTGCAGAA	197
149	TTCTCGGTGCGAACATCATC	130
304	CCATCAAGAGGTCGCCGATA	285
2144	ACCTCACCGAGATCGAACAC	2125
478	TTGAACTTCCACTGATAATGACCA	455
478	TTGAACTTCCACTGATAATGACCA	455
129	AGCTCCAGGAGGATTCATGC	110
124	CGGTATTCAAGATGTAACAAGCG	102
146	AGTATCCAGAATCACTGTCATTCTTCT	120
894	GGAATCCAACAGGAAGAGAATG	873
675	GGTGAAGAGACGAGAGAAGACACC	652
627	GGTGAAGAGACGAGAGAAGACACC	604
934	GTGGACGTGCTTGATCTTGTC	914
1488	CACATTGAACAGGATACTCTTGGA	1465
797	CAACGGTCAAGAAGGCGATG	778
291	CGTTCATAATCGGTGTGCCA	272
344	CGTTCATAATCGGTGTGCCA	325
200	TAGAATGGAACCGACTGCGT	181
132	CCACCACCACCTCTATCTTCC	112
808	TGGATGAACTGGCTTCTTCG	789
480	TGGATGAACTGGCTTCTTCG	461
178	CGTCAACAACCTCATCAGCA	159
408	TGGATGAACTGGCTTCTTCG	389
1341	AGCAGTGACAAGCATAAGTGATTC	1318
450	TGGATGAACTGGCTTCTTCG	431
840	TGTGGATGAACTGTCTTCGGA	820
274	AGCGATGATGACTGATAAGGTAGG	251
281	CTCAGGTATCGCATTACTTCACAC	258
129	TCGTACAACGTGTCGTGCTC	110
918	CAACACGATGAGCACCGATT	899
200	ACATCGGCGGTTGACTCTGA	181
939	CAACACGATGAGCACCGATT	920
679	CAACACGATGAGCACCGATT	660
464	CGTGTTGTCCGCTTGTGAGT	445
191	AGCAGACGCTTAAGCTCCGT	172
395	CTGTAGAGGCTACGAGGAATGG	374
278	CGACTATGTGATTGATTCTGACCA	255
992	TGAACATGCAGTTATGAACACTGA	969
982	TGAACATGCAGTTATGAACACTGA	959
992	TGAACATGCAGTTATGAACACTGA	969
368	ACAATTACACATTGGTCCTCTGC	346
209	ACATTCCTTGTGGTCCAGTGATC	187
1100	TCCAGATCAACTGTCCATCCTT	1078

1226	TCCAGATCAACTTGTCCATCCTT	1204
1500	TGGAAGCGAGTGATGAGGAC	1481
1271	TGGAAGCGAGTGATGAGGAC	1252
1271	TGGAAGCGAGTGATGAGGAC	1252
1596	TGGAAGCGAGTGATGAGGAC	1577
198	TGCTGCTGTTGTTGGCTGAC	179
2195	CGATGAGGTTGCGATGACGA	2176
2057	CGATGAGGTTGCGATGACGA	2038
2122	CGATGAGGTTGCGATGACGA	2103
288	AAGGCACGGAAGGAACACTC	269
342	AAGGCACGGAAGGAACACTC	323
411	AAGGCACGGAAGGAACACTC	392
492	AAGGCACGGAAGGAACACTC	473
120	AAGGCACGGAAGGAACACTC	101
265	AATACGGATACTGCGACGGA	246
317	AATACGGATACTGCGACGGA	298
572	TGACAGGTGTGAGTTGTGCTG	552
1174	CACAGAGACTGCGGTGATAAGG	1153
705	TGAAGTGTGGAACCTGTGGA	686
171	GGAAGTTGCGGTGTTGGAAG	152
185	CCAAGTTCATCTGTGTCAATCG	164
113	GTGGAGAGGACGCAGCATTG	94
208	CCAAGTTCATCTGTGTCAATCG	187
910	GCCACTGGCTCCATCGTCTT	891
361	TCACTTGAGATGGATTGGCA	342
12668	AAGCAGAAGCCGACAAGGAT	12649
12659	AAGCAGAAGCCGACAAGGAT	12640
1057	AAGCAGAAGCCGACAAGGAT	1038
244	CTGCCATTCTCCACTTCGCT	225
416	TTCTTGCGGTGACGAGTGAT	397
348	TTCTTGCGGTGACGAGTGAT	329
1047	AAGCGTCCGTTGACTTGAGTT	1027
129	GCATATACAACATATACAACAAGCA	103
123	TTGCACTCGTATGGTCTCTAGCT	101
191	GCAACTTCTGGCTGAACTGC	172
203	GCAACTTCTGGCTGAACTGC	184
3435	GCCATATCTGCCAGGTTGACT	3415
3426	GCCATATCTGCCAGGTTGACT	3406
3536	AGTTCAAGATTCGGATGGCA	3517
3527	AGTTCAAGATTCGGATGGCA	3508
3524	AGTTCAAGATTCGGATGGCA	3505
3533	AGTTCAAGATTCGGATGGCA	3514
3423	GCCATATCTGCCAGGTTGACT	3403
3432	GCCATATCTGCCAGGTTGACT	3412

3444	GCCATATCTGCCAGGTTGACT	3424
3435	GCCATATCTGCCAGGTTGACT	3415
3545	AGTTCAAGATTCGGATGGCA	3526
3536	AGTTCAAGATTCGGATGGCA	3517
3533	AGTTCAAGATTCGGATGGCA	3514
3542	AGTTCAAGATTCGGATGGCA	3523
3432	GCCATATCTGCCAGGTTGACT	3412
3441	GCCATATCTGCCAGGTTGACT	3421
242	AGCACAAGCTCCTTCTCACAA	222
242	AGCACAAGCTCCTTCTCACAA	222
192	AGCACAAGCTCCTTCTCACAA	172
1416	AGTGAGAGCCAGACGATGATGT	1395
1502	AGTGAGAGCCAGACGATGATGT	1481
1377	AGTGAGAGCCAGACGATGATGT	1356
1397	AGTGAGAGCCAGACGATGATGT	1376
1452	AGTGAGAGCCAGACGATGATGT	1431
945	TCAATTAAGGTATTCGATGGAGAACTTG	918
1749	CATTGTCACTCTATCCACGTCGA	1727
582	ATCAGTTGGATATTGGTAACGAGATG	557
895	GCAATACACCAAGGTCCAACA	875
929	GCAATACACCAAGGTCCAACA	909
2481	AACTGAGAATACCAACGAGCATC	2459
2334	GAGAGACAGCGAAGCGTAGG	2315
656	CGAGATAGTTGCTGTTTCATCCA	635
1073	TAGGCAAGAGCCTGGCATTTC	1054
1474	CCAGCTTCAACTCGGCTTCT	1455
303	CTGATCGTTGAGCTGCTTCG	284
178	CGTCTCCGCCACATAATAGC	158
301	TGTTGTTGGTCAGTGCAAGAGT	280
2020	CCATTGACGAGTTGTGCTTG	2001
1924	CCATTGACGAGTTGTGCTTG	1905
1153	TGTTGAACCTGTTGATGTTGTCTA	1130
1057	TGTTGAACCTGTTGATGTTGTCTA	1034
373	CGACTACTTGCGGCTTCTCA	354
765	GGAGTCAGACGGTGGAATAGG	745
765	GGAGTCAGACGGTGGAATAGG	745
1048	GCCAGTGAAGAATGTAGAATCGT	1026
1081	GCCAGTGAAGAATGTAGAATCGT	1059
912	GCCAGTGAAGAATGTAGAATCGT	890
919	GCCAGTGAAGAATGTAGAATCGT	897
236	CCTCTGTGTCTCTACATCTTCATCA	212
272	TGTGTGTATATTCAGGATGATGGC	249
142	GCCACCAATGAAGAATACGATTACG	118
229	CTTGTATTGTTACGAGTGTAAGTGC	204

143	CGATCAACGATGATACAATTAGCG	120
475	TCCACCATTGAGTTACTTCCG	455
264	TGGAGGAGGTTGCTGAGGAC	245
808	TATCAATTCATCAATACCTTCTCCTTCA	781
453	TATCAATTCATCAATACCTTCTCCTTCA	426
188	TTCGGACACTTGCCTGATACC	168
133	GTCGGCAGTGAATCCGTTCT	114
222	ACTGAGTTGGACCATCAATATGTG	199
992	GAATTATGATGTAGAGACGGAGTGC	968
1506	CGCCATACGAGAAGGTAGCAT	1486
2023	CGCCATACGAGAAGGTAGCAT	2003
1059	TTCCGCTAACGCAAGGTGTA	1040
442	CAATATCTCCGACAAGCCGAT	422
1466	CAGGAACTTGTGATCGGTGAT	1446
1479	GTAACCGATGAGACCAGCGT	1460
1490	TTGATTGATTGCTGGAAGTTGA	1469
296	GCTGTGTTACAGAATGTGTCCATT	273
373	GAAGAAGCAGAGAAGGAACGAC	352
327	ACATGAAGCATATGAAGGAGGTG	305
929	AGAAGAGACACGAATTCACATGACA	905
2999	TCTACAGTTGAGGATGGATGCC	2978
2999	TCTACAGTTGAGGATGGATGCC	2978
300	GAGACGAACTGCTGGTTGATG	280
483	TCTACAGTTGAGGATGGATGCC	462
708	TCTACAGTTGAGGATGGATGCC	687
151	GCAAGTGGTGGAGGATGAGTT	131
1266	AATGTACGCTCGTTCTGAATCC	1245
177	GGCAGACTGCGGTGTAGAGG	158
177	GGCAGACTGCGGTGTAGAGG	158
167	GGCAGACTGCGGTGTAGAGG	148
167	GGCAGACTGCGGTGTAGAGG	148
955	TGCCAATAGATACTACACACTCGGT	931
968	TGCCAATAGATACTACACACTCGGT	944
948	TGATTCCTGGCTTGACACGA	929
652	TGACTACGGCATCAAGTATGGC	631
141	AATCGATAAGGCGCTTCGAT	122
204	TTGGCAGTGAACCTCAATGC	185
465	CAGGACAGCTATTCGGAGACG	445
920	AGGAATGGACCGTGGAACAG	901
1313	ACTTCGCGGTAGCTTCTTCG	1294
807	CGCTGTTCTGAGGCAAGTTAC	787
739	CGCTGTTCTGAGGCAAGTTAC	719
1599	CTCTTCGGCTTCTTCCTTCTC	1579
141	CGGATGATGATGGAGTCGTT	122

141	CGGATGATGATGGAGTCGTT	122
223	TGTCTTGATTCTGAGCAGGTAG	200
706	TGACATGGCCTTCTGAGCAC	687
814	AAGAACGCAATCCTCATTGTGAA	792
956	CAACTTCTCTCCAGGAAGAGTCTTGC	931
642	TGTTGAGACTACTTGAAGATGGATACC	616
767	TGTTGAGACTACTTGAAGATGGATACC	741
528	ATCATCTTCGTCCGTCTTCTCTT	506
270	ATCATCTTCGTCCGTCTTCTCTT	248
213	ATCATCTTCGTCCGTCTTCTCTT	191
553	ATCATCTTCGTCCGTCTTCTCTT	531
1079	CGAGTCCGCTTGACATTCTTG	1058
503	TGTGATTGACGACGGATGTGT	483
128	TGGTTGATCTAATTCATCTTGAGC	105
443	TCGTAGGTCGTCACATTCGTAA	422
809	CCTTGCGTCCTTGTGGTCCT	790
103	GTAGTACATCCAAGCACCATCGT	81
992	TCTTCCGATGATCCTTCTTCA	972
899	TCTTCCGATGATCCTTCTTCA	879
989	TCTTCCGATGATCCTTCTTCA	969
1073	CGAGCGATGAAGCGGAGAAC	1054
701	CGAGCGATGAAGCGGAGAAC	682
509	CGAGCGATGAAGCGGAGAAC	490
481	CGAGCGATGAAGCGGAGAAC	462
525	CGAGCGATGAAGCGGAGAAC	506
295	GTTCATACTCCACCGTTGATACC	273
221	GATTGAACTTCATGGAGGACATCG	198
746	GATGGTGTCAATGGCAATGG	727
477	GCCTTGACTCCAGTAACCATTG	456
603	GATGGTGTCAATGGCAATGG	584
588	GATGGTGTCAATGGCAATGG	569
687	GATGGTGTCAATGGCAATGG	668
682	GATGGTGTCAATGGCAATGG	663
700	GATGGTGTCAATGGCAATGG	681
676	GATGGTGTCAATGGCAATGG	657
676	GATGGTGTCAATGGCAATGG	657
1254	CGTGGAAGTGAATACTGAACA	1233
246	GGTTCAGAGTATCAATGATATAATCCAC	219
126	CGACTGTCAAGTCGTTCTCGA	106
2285	TCTGATGGAGTGGTGGCTTC	2266
2291	TCTGATGGAGTGGTGGCTTC	2272
2195	TCTGATGGAGTGGTGGCTTC	2176
127	TGACCATCACCATAACTCCGA	107
127	CCACCTCCTCTCTCTCTCTCT	105

124	TGTGGCCGATCTCTATTCTCTT	103
126	GACGACTTCCTCGAAGCGATAGAC	103
264	AATCATCTCGTCCTCCTTGTTC	241
210	CTGAGCGTAGGATGGAGGTG	191
871	GCGACTTGAGCGAGCAGAGA	852
927	GCGACTTGAGCGAGCAGAGA	908
83	TTGAGCGCATAATTCCGATT	64
939	GCACCAAGAACATCGGACAT	920
969	GCACCAAGAACATCGGACAT	950
954	GCACCAAGAACATCGGACAT	935
663	CAGTGTGAGAAGGATGAAGGC	643
519	CAGTGTGAGAAGGATGAAGGC	499
631	CAGTGTGAGAAGGATGAAGGC	611
1173	CGGAGTTGTAGAACGAGGAAGGA	1151
1255	GTCCTGAAGTTATTCCAATAATGG	1231
168	GAGTTACCGTATTGATCGTATCCA	145
261	ATGCTGGATCACATGGAAGG	242
1427	CAGCATCCTTCTCCAGTCA	1408
164	TTCAGCCATCTCAACCTCGT	145
164	TTCAGCCATCTCAACCTCGT	145
589	CCACCACAAGTCAGCCGATT	570
530	AAGAAGCATCCACGCATACCG	510
614	AACAAGCATTCACTGAACAACGA	592
177	CTTCAACTCCAACCACGATGT	157
1567	GTAACGACGAACGGAAGGATAG	1546
247	CGACATTATTCTGACTTCCTGGTG	224
1204	GTAACGACGAACGGAAGGATAG	1183
1172	GTAACGACGAACGGAAGGATAG	1151
137	TCCTCCATCAAGTAGTCGTAGTGTT	113
267	GGTCTCGTAGTCGCAGTAACAGT	245
424	TTCCGTTGTTCCACTGCTTG	405
102	CGGATTACGATGAGAACTTGGAC	80
363	GTTGAACCAAGTCGTTGTGTGAT	342
126	TTCATTACATTGCTCGAAGTGC	105
2414	TGTGAAGTTGCTGTGCTCCA	2395
1188	TCCTGCCATCTTCTCTACGG	1169
211	CCGTCGTTGTTTCGTTCCATT	192
1269	TGAGTTGGCTGAAGGATGCG	1250
2413	TTCTGCGAAGTTCTGGTTCC	2394
112	CCAGGAAGTTGAGAGACACAGC	91
393	AAGATCCAGATTGCGGCAAG	374
104	AGAGGAGCAGATGAATGAGAGAA	82
317	GGTTAGCATTCAAGTTCTTCGGA	296
592	GGTTAGCATTCAAGTTCTTCGGA	571

317	GGTTAGCATTCAAGTTCTTCGGA	296
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317	GGTTAGCATTCAAGTTCTTCGGA	296
592	GGTTAGCATTCAAGTTCTTCGGA	571
150	CTCATCTGTACGTATTCGACGGT	128
100	CAAGACAAGTCGCGAAGGAA	81
276	CGGCTGAATCGAGACAACATTC	255
2509	GAGGCATTGATGGAGATTGGTG	2488
2237	GAGGCATTGATGGAGATTGGTG	2216
2266	GAGGCATTGATGGAGATTGGTG	2245
3240	TTGTGATGCTCCGATGGTTC	3221
2765	GAGGCATTGATGGAGATTGG	2746
2473	GAGGCATTGATGGAGATTGGTG	2452
2056	GAGGCATTGATGGAGATTGGTG	2035
1161	GAGGCATTGATGGAGATTGGTG	1140
279	TTGTGATGCTCCGATGGTTC	260
2533	GAGGCATTGATGGAGATTGGTG	2512
898	GAGGCATTGATGGAGATTGGTG	877
2251	GAGGCATTGATGGAGATTGGTG	2230
270	TGTGCTGTCAATTCTGTCATATTCC	246
123	GGAATCAGCAGTTGGCAGTT	104
377	TGAGTGTGTTGTGGATTGGCT	357
415	TCATCTCCACAACGGTATCATC	394
409	TCATCTCCACAACGGTATCATC	388
272	TCATCTCCACAACGGTATCATC	251
1427	AGGACGGTGAAGAAGAAGGC	1408
219	GAAGGTTGAAGTCGGTATCGTAGT	196
296	TGAATGTAAGCAGCAATCTCAGTT	273
190	CCACTTGTTTCATAAGTCATCGGA	168
265	CCACTTGTTTCATAAGTCATCGGA	243
295	CCACTTGTTTCATAAGTCATCGGA	273
132	TCCGATTCACTTGCTGTTGG	113
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913	TGCTTCGGTTGTTGTGACTTC	893
910	TGCTTCGGTTGTTGTGACTTC	890
1071	GCAAGTTGAGCAGACAGGACA	1052
758	CGGTAACGAAGACGATCACCAC	737
129	ATCGTCGTATTCGACATAATCGGT	106
324	TTCCAAGTAGTCACAACAATCATCG	300
2931	GATTGCGTCCTCGTCTTCGT	2912
2949	GATTGCGTCCTCGTCTTCGT	2930
573	ATACACAACACGAACGAGAACTGAT	549
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573	ATACACAACACGAACGAGAACTGAT	549

821	GAATGTCGTGAAGTGGAAGAGAAC	798
688	GAATGTCGTGAAGTGGAAGAGAAC	665
440	TCTTGCAAGCTCCGTCAATT	421
315	ACGGATCTTGCGGAGTCCTG	296
386	CAGATCTCAATAGAATTATGGCGAT	362
332	GATCCTTAGGTCCGCCTCAT	313
1248	CGATTCCTCCATTGGTGTCTTC	1227
156	ACTTCTCCTCCGACGCAACG	137
581	CGACTCGATGATGTCGTGTG	562
123	ACTTCTCCTCCGACGCAACG	104
97	ACTTCTCCTCCGACGCAACG	78
203	CGACTCGATGATGTCGTGTG	184
312	TGAGGTCTCCATTGTGCTTCA	292
129	GGTGGCTCCGACTTCTCCTC	110
301	TGAGGTCTCCATTGTGCTTCA	281
115	ACTTCTCCTCCGACGCAACG	96
151	TCACACGATTCCGACCTCTT	132
467	GGATTACGAGCTGTGTAGAAGGC	445
329	GGATTACGAGCTGTGTAGAAGGC	307
347	GCACAGTGTACTGAGACGATCCG	325
1193	CCGAATTCACGAAGGACAAGC	1173
950	CGATGGAGATTCTTGTAGGCTATG	927
671	CGATGGAGATTCTTGTAGGCTATG	648
503	CCAACACTACGACGAGACACG	483
602	TTCGCAGAATGCTGGAACAC	583
391	CACCACATTCAGTCGAGAGGT	371
1484	AATACTCAGCACACAGGCGAT	1464
1038	AATACTCAGCACACAGGCGAT	1018
257	CCTCTCCATTGTTGATCGAAGTTG	234
1432	CCTTGATTGTGAGCAGATTCCA	1411
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1475	GGTGTCTCAGTGGTTGTGG	1456
491	CTTCCACAGACGAGCAACATC	471
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1475	GGTGTCTCAGTGGTTGTGG	1456
413	TGAATGCCAACAGAGACGGT	394
543	GGTGGCGAGCTGAGAATAGG	524
122	TGGCTTCTCGTCAGCGGTAA	103
540	CACACGCGATGTTGAACAGG	521
667	CACACGCGATGTTGAACAGG	648
354	TGGACCGTTGTTCTAGCACCT	334
204	GCAGGAATCGTCATTCTTG	185
1063	TGTAATCTGACACGTAACGGCTT	1041
413	TGAATGCCAACAGAGACGGT	394

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125 GGAGGAGTAGGTGGAGACTTCTC	103
124 TCTTAGCGTCGTTTCGTTCTG	105
126 GTTGTGTTCTCGTAACTACGAATCTC	101
202 GATGTTCACTGGCAATACGGA	182
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121 CCTGTTGTCCGCTCTGTTGA	102
271 GCGTTGTTAGTGGTGGTGATTCT	250
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137 ATTCGAACACCGTTCTCGTCTT	116
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689 AAGCGATAACATAATCCGTCTGA	667
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126 GATTAATACCATTGCGACGAGAA	104
520 GCAAGTTGAAGAGATCACCGAA	499
421 GATGATTATCTGCCATTCTGCTC	399
208 AGTTCTTGAGACGGCGGAAT	189
191 AGTTCTTGAGACGGCGGAAT	172
511 GCACTATACCATGCATCCTCTGC	489
126 GCGTGTCTCACTCTCTCACTG	104
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267	CTTCAATTATGGATTGCGGAACT	245
185	TGAAGAACTTGAAGATGAGTCTCTCT	159
160	TTACGAGCATCCGAAGTGTCA	140
620	TCAGACAGAAGAGTCCGCACT	600
230	TGTCAGTGTCCAGGCTCTCG	211
450	GGAGATGACAACCAGGATGATTC	428
207	CAGAGTCGTCAGAATCATCCG	187
286	TTGATCTTCGGAAGGTTCCG	267
286	TTGATCTTCGGAAGGTTCCG	267
286	TTGATCTTCGGAAGGTTCCG	267
164	ATTGGTGTGGAAGACAAGTGG	144
194	CGTGTGGTGTGTAGTGATTGGT	173
280	TATTCTTCCAATAGAGTATCCACTGC	255
1025	ACGAGGAGTTCTTGTCTGGAC	1004
1054	ACGAGGAGTTCTTGTCTGGAC	1033
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275	TGCTTGTTCAACTTCTCCACCTT	253
918	TCAATGCGATGCCACCGTAT	899
985	TCAATGCGATGCCACCGTAT	966
1123	TCAATGCGATGCCACCGTAT	1104
355	GGACATTGTGCTACATCTTCTCC	333
663	AAGCGGCACGGTAGATGATG	644
661	CAATAGGAATATGTCACCGAGTGG	638
643	CGACCGACACCATTGAACTC	624
142	CAGGATGGTTCAATGATGCTC	122
1421	CGGTGACATTGGCTTCGCTT	1402
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1361	CGGTGACATTGGCTTCGCTT	1342
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134	TGCGAGAAGTTCCGAGTTGG	115
295	GCAGAATCTTCATCCGCAAT	276
123	ACAGGCTTCGGTCGAACGAA	104
125	TCCACTATCACACATTGGTCGATC	102
124	CGCATGTTCTGTCTCAAGAGC	105
435	AAGTCCAACACAGAGAGCAACA	414
1742	GCCGCTCCAAGAAGTGATAG	1723
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474	CCAGTCATCAGTGAACGGAAT	454
248	CCAGGCAGGAAGTTGAGGCT	229
203	CTTGGTCTTCAGTTGTGTTGGA	182

121	ACTGCCTCCATCGGCATAGC	102
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414	GTTGGTCTTGTTCTTCTCGCA	394
139	TTGTTATTCGTCTAGCCATCTCG	117
126	ATCACCACGAGGATGACTGC	107
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371	TATCAAGTCGGCACCAGCAA	352
169	AACAATTCCGTTTCGTAAGTGTAGTC	145
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541	GAGAGTTCATTCCAAGAGTGTCTG	519
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564	GTCTTCCTTCGCCTGTTCCG	545
381	GAAGAAGATGCTCAATGGAAGTG	359
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275	TGACTTATGAGGCAACTTAATTGTCTC	249
147	CCGTCTCCTTGAACCATCCG	128
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147	CCTATCTTCTGCCTCAATCACAA	125
187	CACAGTAACATAGGTCTCGTCGTC	164
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167 CAGTCTCGTGGTTGGATGGA	148
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199 AGATATGCTCCTCATCAACACCTT	176
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190 GCTTCTGTGGTTGTAGTTGTAGTCG	166
223 ATTCCTTGACATCCTGCATTG	203
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1195 TTATATGCTCATTAACCATCTCAGGT	1170
1325 AATCTGCGGAACACGGTCTT	1306
207 TCTGGCTTCAATGATGGAACTC	186
2369 GCATACACCAGAACACTATCCTCA	2346
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773	ACCGAGCTTGCTGTTAATCCA	753
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166	CATTCCACCACTAGCTCTTCCA	145
204	CATTCCACCACTAGCTCTTCCA	183
141	CATTCCACCACTAGCTCTTCCA	120
426	TGGTCCTGCTGTGTATTCTGG	406
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155	GAGTTACCACCAACTGCTACAGC	133
517	GACAGACCAAGCCAGACAGCA	497
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978	GGCGTAGATCTTCTTCCGTGT	958
413	GTGAGGAACCAGACGCAGAA	394
415	AGGCTTCTCTATCAACGACAGG	394
196	CGGAAGAGGCGAAGACGATC	177
975	TGATGCGTGAACCTTGTGG	956
421	TGTCCAACCTTGAGCTTCTCCA	401
305	TGCTGTGGTGGATGGAGGTA	286
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142	TTCTTCTCCAAGAGCAAGCG	123
120	TTCCGGTGGTGTGAGCAGA	101
147	AGGTCAACAGACACGCACAGT	127
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290	CATTGTTGAGCACGCTGAGG	271
598	CAGACGAAGAAGACGATGGTG	578
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365	CACCATTCGCTAGGTTGATTG	345
363	TTCACTCCTCTCACCGTTCAG	343
233	TTCTACTCGTGATGACACTTCTC	210
175	GGCAACAAGAGGCAAGAGAGAA	154
1599	GCCAACCAGTAATGCGAGTC	1580
1593	GCCAACCAGTAATGCGAGTC	1574
337	TCGATGCAGTACCGTTCATCA	317
347	TCGATGCAGTACCGTTCATCA	327
999	ACCGTGTGAACCATTGCCTT	980
142	GTCGACGGCTCACTTACACC	123
144	TGGACATACATTCTTGCGACA	124
386	GTGCGAGGTATTGAGCGTGTT	366

309	TGCTTCTTGAGAGCCTTGCT	290
130	TGAACAGATGGCTCAAGAGTGGA	108
141	TGAACAGATGGCTCAAGAGTGGA	119
139	TGAACAGATGGCTCAAGAGTGGA	117
138	GGAATATTGTGGTGAACGGACGT	116
191	GAGATCCACCGATCCGAGAC	172
261	CATTGGATGATATATGGATTTCGC	239
149	AGCTGCTGAAGTGTTGAGGAA	129
250	AACCACACGACGGAGCTGCT	231
170	TCTCATCCGAATCACTGCTACTGTC	146
734	GACATGAGTGAGACTCGCATTC	713
192	TCCGACATCTTGGTAGGTGAC	172
1192	GGTCCACTTGATTCTCACAGCA	1171
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121	CAATGTGGCCAAGAACGGAA	102
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128	TGAACAAGGAGCCGCACACT	109
553	GAGAGTGCGTGTGGAACAGTC	533
141	TCCTCCTCCATTAACACCTGGA	120
931	TACTTCCAATGGCAATCCAGTATC	907
359	TCGGCTTACTCATACTCATACCTG	336
784	TGCGTCGTAGATGATGAAGTGT	763
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515	ATTGGCCGTTGATTAATTGG	496
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121	GCGCACTCTGCAGCTACCTC	102
545	GCTCTTGGTTGTTGACGATTCC	524
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215	GCTCTTGGTTGTTGACGATTCC	194
341	TGTGGTGAGAAGGTTCTGGAG	321
520	CGGTACATTGCTCATCTGGAT	500
121	GCTCCGATCTGTTGCTGCTG	102
417	GCAGCCTGATGAACAGCATT	398
801	TCTGTCCACTTCCGTCCACTTC	780
267	ACTTGCTGGATTATTCAGTGCA	246
160	TTAGTGTAGAGTGATTGTGATCCTGAT	134
593	GCAGATGTCACTGAGCATATTGTC	570
521	GCAGATAAACAAGTGAATATTGCCATAC	494
797	AATGTAATGTCGGTGATAGAACTGG	773
779	ATAAGAACGCTGTGTAATGTACCTTC	754
145	GCTCAATAATCTTCTCCGCCAA	124

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1049	GTGACACTGTTGCTTGTTCCAT	1028
359	ATAGGCATATCTGACAACGAAGGT	336
939	CCATCTCACCAAGCGGACAT	920
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1161	ACATCAGAGGATCGGAGGAAG	1141
209	TCTGACGGAGTTGACGAAGTGT	188
172	TCTGACGGAGTTGACGAAGTGT	151
117	GACGTCACGTGGTGTTCCGA	98
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144	TCTGACGGAGTTGACGAAGTGT	123
697	CCAGCGACCACATATCCAGT	678
127	GGCCTGCTGCTACTCTCTCC	108
339	AGTTGGCAGAAGCAGTGTCAT	319
868	AAGTCTCCACCTCGTCAGCGT	848
365	TTATCCACGTCGTATAGTGAGAATG	341
383	TGCTGAACTGTCGAAGAAGGT	363
207	CGGAAGATTACAACTCGCTCGT	186
215	CGGAAGATTACAACTCGCTCGT	194
254	CATTATCTGCGTTGAGGACCA	234
1007	CTCCTTCCTCCTCTTGCTCTGTT	985
1626	GACACCTCTCGCCTGACTTG	1607
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400	AGGCTTGACGATGGCTGGT	381
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143	TCATCACTCGTATCACGAACGT	122
150	AGCTTCTCGTTAATGAAGGACAA	128
2420	AGCACTACATTGGCGAGATTG	2400
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139	GCAGGCCTTCCTTCACACAT	120
182	CTGTCAAGGAATCCAGGTCCAA	161
219	CTGTCAAGGAATCCAGGTCCAA	198
2930	TGGATTGCGGATGTCAAGGT	2911
212	CCGTCTCTTCACCATTATTGTCT	190
398	TTGTCTTCGTGGCTTATCG	379
612	TTGATGAACGGACACGGATA	593
136	ACGACGACATTCATCCGGAA	117
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135 CATATCGGCAGGTGGTTGTAAC	114
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161 GGACAATGCGGAATGAGTAGG	141
160 AATTGAGAATATGCGTAATCGAGTTC	135
313 CGAACGCAATCATAGTAGGCA	293
957 TTGATTGCGCCACCACGGATA	938
957 TTGATTGCGCCACCACGGATA	938
167 CCATATCTGTGGTTGTCTTCTACAGC	142
128 CAGAGGCCACCGTCTTAGAG	109
135 GAATTACTCGTGTTCACTCACTGTCTT	109
126 GGCAGTAATAAGGCGAACACG	106
135 ATTACGGTACACGGCTGGCA	116
127 CCACTGCCAACTGGATTGTG	108
496 CTCGTTCTCCATTCAATCCG	477
560 TTGGCGATACATTCCGTTGA	541
132 TCCTGTTACATAAGCTCCTGTAGAACG	106
854 GCACCACCATGTCTTGTGATC	834
978 CGTTGTATTGAATAGAATCCGTTCC	954
136 ATTGCTGACTGCTTCTTGCC	117
1122 CGTTGTATTGAATAGAATCCGTTCC	1098
140 CCGCACAGATTGTTGTATATCGTC	117
123 GGTCATTGTGTTGGTGGATACG	102
242 CCTGTTGGAGCTGATTGACAA	222
244 AGCGTAAGTCTAGAATAGTGGTATTGG	218
668 GCTCTTCCAATGACAACACCA	648
178 TGCATGACCGTCTTGAGGAC	159
567 TGATGTCAACGGAGCAATGTATC	545
2834 AGCACCACAGTCGCAGAAGA	2815
379 GAGCATGTTGTACAGTTGGTGAA	357
420 AATTCTAGAAGATGTGTTAGGATCGTT	394
2316 TTGATGATTGTGCCTCCTTCG	2296
143 GATTGAGGTAAGACGCATGTTCA	121
143 GATTGAGGTAAGACGCATGTTCA	121
2504 TGGCAGGTGGAGGATGTAGT	2485
2498 TGGCAGGTGGAGGATGTAGT	2479
945 TGGCAGGTGGAGGATGTAGT	926
607 TGTCCGGAACACTTCTCAATG	587
394 TGTCCGGAACACTTCTCAATG	374
658 TGTCCGGAACACTTCTCAATG	638
1388 AGTGGATCTACGGTCTTGTATGGATT	1363
1415 AGTGGATCTACGGTCTTGTATGGATT	1390
705 TGATTGATGGACGATTCACATTC	683
385 TATCTTCTTGTCGGCTACCA	365

499	CGCAATTCCGTAGTCAATCAG	479
938	AATCGGTGAGAGCGGAGTGA	919
1932	GCATCTCCAAGAGCAGCATT	1913
236	TATCGGCATTGACTGTGGCA	217
277	TATCGGCATTGACTGTGGCA	258
2071	ACCACTGCTCGCTGACAAGA	2052
2071	ACCACTGCTCGCTGACAAGA	2052
2090	ACCACTGCTCGCTGACAAGA	2071
233	GGAAGCCAGACAGCATCAGA	214
423	AATTATTAACATCGGCCATAACAGT	399
285	CGAAGAATGAGTGAATAGTTGAACA	261
494	CAATCGGTGTGGCAATCATC	475
134	AACTACCGACCATCTGCCTGATG	112
494	CAATCGGTGTGGCAATCATC	475
497	CAATCGGTGTGGCAATCATC	478
136	TCTTAGGCTTGCGTGTCTGTC	117
150	GCCGTTCTAACGGTGTCAA	131
899	AGCGAGAAGAGCAAGACGACA	879
888	AGCGAGAAGAGCAAGACGACA	868
1349	GTGAAGTCCGTTGCTGATGG	1330
1196	GTGAAGTCCGTTGCTGATGG	1177
1206	GTGAAGTCCGTTGCTGATGG	1187
2171	GCTTGTGTTGCGATGTAGGC	2152
2018	GCTTGTGTTGCGATGTAGGC	1999
424	CGTATTCATCATCTTCTTCGTATTCC	399
424	CGTATTCATCATCTTCTTCGTATTCC	399
228	GTAGGATCAGGTCGATGATGGTG	206
162	TGAACAGAAGCCATGTGGTCTT	141
196	AACTGATGTGAAGCCAAGAGCAA	174
2527	CAGCAGCAGTGGTCAAGAGC	2508
2527	CAGCAGCAGTGGTCAAGAGC	2508
1020	AACTTCCGACCACGATCTCTT	1000
847	TGTCAACACAATACACACATCATCTAC	821
1514	GCACATCTATTGGAAGAAGAGC	1492
186	TTGATAACCTTCTGCGAACTGG	165
162	TTGATAACCTTCTGCGAACTGG	141
1842	CGGATGGTGAGAAGAGCGTA	1823
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786	ACCGCATTGGAGGAAGTGAA	767
786	ACCGCATTGGAGGAAGTGAA	767
403	AGAGCAATGCAGCACCTTCG	384
925	AAGTATCAGATGAGCGGACACC	904
516	TTCACTGGTAATGCAACAATCCG	494
265	ATGCTATCAGAATACAATATACTTCCGT	238
265	ATGCTATCAGAATACAATATACTTCCGT	238
141	GATAGTTGATGATGTTATAGACGTGTTG	114
1892	CACCGCTGGAGAATCAAGAG	1873
1446	CACCGCTGGAGAATCAAGAG	1427
375	CATTCTTCTCCATTCGCTTCC	355
263	TTGGCTTGAAGTTGCTGGAA	244
348	GGCTAGGTAAGACACTGGAGGTT	326
1088	ACACTGTGAACTGTCGTGACTTGG	1065
356	TCACGGATGGACATTAAGACC	336
868	GTTCTTGTATGATTAGTGTGAGGATGA	842
984	TTGAATTGTTGAGCGCACTC	965
236	AATCCGTCTCCATCTTCTTCG	216
280	TGTGACAATCATGTAGAGGTCGTAA	256
604	TCAGTGTGTGGCAAGAGACG	585
340	CTAAGTCGCCATCAGAATCCTC	319
1073	TCTTCCGCTTGGTGAACAAC	1054
455	TTGATTCCAAGCCGATGACC	436
101	TCTGGAGCTGAACTGGAGAGTC	80
415	TCCAGTTCTTCACGATGTCCTC	394
485	TCCAGTTCTTCACGATGTCCTC	464
299	TCGTATGTGTAATCTGGCCATG	278
464	TCGTATGTGTAATCTGGCCATG	443
146	CCATCTGATAGTAGATCATGACGAA	122
429	TCGTATGTGTAATCTGGCCATG	408
165	CTCTTAGTGTTGCGAGATTGGC	144
121	AAGCAGAGAGCAGAGACGACA	101
139	ACAGCAGAATAAGCAGCAGAGAT	117
1906	TGGCTCTTCGTGTCACTTCA	1887
392	CGTGTGAACGACTGTGGTTG	373
558	TTGGTGTAGCATTGTTGCGA	539
1970	GGAAGTCGATTCTGCATGGT	1951
204	TCTCACGCCTCATCCATTCCG	185
216	CTCGTTCGCAATATTCTTCGTT	195
219	AAGAAGAACTGTTATAGCATCGTCAA	194

219	AAGAAGAACTGTTATAGCATCGTCAA	194
588	TTCTTATGAGTGAGGAAGGCAGTC	565
858	TATCCACCACCACCACTTCG	839
858	TATCCACCACCACCACTTCG	839
481	GAACCGACCGCCAGTAGAGT	462
506	GCAGCAGTTGTCGGATAGTGA	486
499	GAACCGACCGCCAGTAGAGT	480
235	CTAACTGCTGTGCCGCTTGA	216
2803	CGAATAATGTTGATGAGGTACGAG	2780
938	CACTCTTCCATAACATCACCCTG	915
938	CACTCTTCCATAACATCACCCTG	915
924	AATTCCATCGAATGCAAGCA	905
131	TGCATGCTCTATATAGACTTCTAGTCCT	104
122	CACCATCGGAGAGAAGACACA	102
246	GGTGAGAGCTAGAGGATAGGAAGC	223
352	CGATCCAGGAAGACCACGAT	333
352	CGATCCAGGAAGACCACGAT	333
1086	TCCGTTACACATCCTCCAG	1067
1086	TCCGTTACACATCCTCCAG	1067
1104	TCCGTTACACATCCTCCAG	1085
2489	AGGCTTCACACGCTTACGCT	2470
2489	AGGCTTCACACGCTTACGCT	2470
2507	AGGCTTCACACGCTTACGCT	2488
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4514	AGGCTTCACACGCTTACGCT	4495
4532	AGGCTTCACACGCTTACGCT	4513
721	TCATACGTGCTTGTGATCGG	702
234	GGCATTATTCTCAACATCCATTC	212
264	GGCATTATTCTCAACATCCATTC	242
234	GGCATTATTCTCAACATCCATTC	212
264	GGCATTATTCTCAACATCCATTC	242
407	CGATGCCTTCTTGATTGGAG	388
377	GGTCGTGTAACAACCTTAATGCA	355
691	ATGCATCGCCATGTTCAATC	672
640	GGAGGATTCCAGTGGCAAGG	621
177	GTCGATCAGTCGGTGCCAAT	158
390	TCTCATCTTGCTTCTTGAACCTG	368
284	CCGAGGCGTAAGTTGGCAAC	265
1490	TTCCAGTCTCCGATGTTCTCA	1470
358	CAAGCACGGTTCCATTCAAG	339
152	CCATCCATAACCTCCATCGG	133
180	CCATCCATAACCTCCATCGG	161
228	CCATCCATAACCTCCATCGG	209
228	CCATCCATAACCTCCATCGG	209

165 AACGACCTGCGAACGTCTTG	146
132 TGACGGCAGCTAGCATCTAGT	112
144 GGAGAGTGTAACGGTTCATCGA	123
557 GGTGGATAGCCTGGTGACA	538
454 CGGTGATTGAGGTCTTCTCG	435
354 GCATAGTAGGCGTAGTGGAGGA	333
630 GAGAGAAGACGCCAATGTCG	611
1028 CGGAGACTGTTCAAGCAATGG	1008
1986 GATACGGCTATTCATTGACTGGA	1964
1913 CAGCACTTCCACTCATCTCGT	1893
2363 CAGCACTTCCACTCATCTCGT	2343
1969 CAGCACTTCCACTCATCTCGT	1949
164 GTGTATCTGATGACATCGGAGCT	142
198 GTGTATCTGATGACATCGGAGCT	176
231 TTCCTTGGATATGTCCTGGAG	210
1238 ACTGCACATACCGGACGTAGTCT	1216
977 ACTGGATTACCACAACAGACAGC	955
958 GGTGACTGTGGTTGTCTGAAGTC	936
574 CTCGGACTTCCATATCATAGGC	553
214 CTCGGACTTCCATATCATAGGC	193
507 CACTAATCCATATGATGAACATAGAACA	480
139 GATTCGAGTGCGAGTTGCTG	120
1371 GCATGGATGATGGTTGATGGTC	1350
1143 GAATCCAGCACCTCCGAAGA	1124
344 CAGAACGGACGAGAACAGGA	325
1270 GCATTCTACGGAGTTGTCGGT	1250
934 GCATTCTACGGAGTTGTCGGT	914
331 GCATTCTACGGAGTTGTCGGT	311
395 TTCTGATGATGCTGCCGCTT	376
1151 CACTTGTCCAGAACCACCAGA	1131
821 TGAAGAATTGTGCAGCTAGTCAA	799
115 TTGGACAGCATTGAGAACTGAA	94
219 AACCATCACGAGAGCAGGAA	200
695 ACAGGTCCACGCAATTGAAC	676
120 CTAACAGAGAGCACTGAGAATAGAGC	95
340 ACTCGTGGTCAGCGTTGTGG	321
853 GGATCATTCGGATCATCAGC	834
654 AAGATGGTCCAGGTGACGATT	634
166 TCGTTATTGTGCTCAAGACTGG	145
197 TGAATAAGATGTGGAGGATACGG	175
520 CCAATGATAGAAGGAGGAATAGTGA	496
1334 GGACTTCTTCTTGTGATGATGATTG	1310
718 AAGGTATGACTCAGGAATCGTCA	696
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1048	CAGATATGACATTGTGTGACTGGA	1025
669	CCGATGGAAGAATGTGATAGTCTC	646
181	CGTAACAGTCTCCGCCAGTAG	161
173	TTGGTGGTTCGGAGACTGAC	154
252	CCTCGGCGAGTTACTCATGT	233
122	CGCCTGACTCAGCACTACTTG	102
292	CAGTCTTGATTGCTGCAACTCC	271
646	GAAGTGAACCATCCATACAGAAGAAGA	620
735	GCTCTCTTCTACGACCGCAA	716
127	TCTGTAACAGTCTCCTCCTGGTG	105
2120	GCGATTGAGTGTCTTGAGATGAG	2098
109	CCTTCCTCTTCAGTGTCAACG	89
759	CAGTGGTTGAGAGTGAAGATGCC	737
348	CGTCGGTACAGCCTGCTTCT	329
1474	TCTCTACGCCTCGCACCATC	1455
990	TGTGCTCCGATTCCGATACG	971
850	TGTGCTCCGATTCCGATACG	831
878	GAATGCTTGTGACTCTCTGTGGA	854
907	GAATGCTTGTGACTCTCTGTGGA	883
1612	TGCTCCAACGACTCCTCCTA	1593
1648	TGCTCCAACGACTCCTCCTA	1629
1612	TGCTCCAACGACTCCTCCTA	1593
1648	TGCTCCAACGACTCCTCCTA	1629
880	TGCTCCAACGACTCCTCCTA	861
3050	GGTCGTTCAATTGTATTGTTGCGTG	3028
6650	GGTCGTTCAATTGTATTGTTGCGTG	6628
2425	GGTCGTTCAATTGTATTGTTGCGTG	2403
281	GGTAGTCGTCTTGGTAGCGGAA	260
342	AACCGATGACCACCAGACAA	323
176	TCGTGGATCTTATTGTGTTGGA	155
155	ACTGTGCGTCGGAAGAATGC	136
540	TGTTGCAAGCAGTTGAATG	521
1305	GTTCTGTGACGACCTTGG	1286
384	AAGATGGTGGAGGTGACTAGACG	362
795	TTCTCGTGCTGAATCGGACA	776
295	AGCAGCACACGATGAAGACC	276
246	GAAGATGGTGGATGTGACTAGATGA	222
387	TTGAGTATCTGATCTCACTTCAGGAGT	361
921	CGGAACAAGGCAGAGCAGTA	902
969	CGGAACAAGGCAGAGCAGTA	950
883	GCAATGCAGAGCAGTAACGC	864
831	CAGTTCTCCATTAGACGCCAA	811
265	TGGCGTGCTCACAGTAGGTG	246
320	GGATAACCAAGCCAGCAGAA	301

150	GAGCCGCCTGTTTCATGACAA	131
964	CCAAGCATCCACACATCCAT	945
964	CCAAGCATCCACACATCCAT	945
964	CCAAGCATCCACACATCCAT	945
256	TGTCGCTTCCTTCTTGTCCTT	236
221	GGCATTGCGGTGATAAGAAC	202
931	CCATGTTGACAACACCAGTGG	911
455	TTGTTGAAGGAGGAAGAAGGC	435
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489	TTGTTGAAGGAGGAAGAAGGC	469
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489	TTGTTGAAGGAGGAAGAAGGC	469
904	GATGTTGGTGTGCGGTGTAATAGTCG	880
988	ACTGTCGCCGTGATGGTGAA	969
670	TGTCACGGAACTCCTCTTG	651
489	ATGTGACCGTCGTAGCCAAT	470
114	CATGGATAATAGTTGTACCGAGAACA	89
1003	TTGACGCATTGTGGATTGAG	984
241	TCACATAATCGTTGAGCAGAGG	220
154	CCATTCGGCTTGATAGTCGTT	134
597	AGAACAGTGCTCCATAATACTCAGTG	572
131	CCTCCTATGTGTTGAGTACAGAGT	107
1796	TTGGAATGGAGTTGGAGGAA	1777
1849	TTGGAATGGAGTTGGAGGAA	1830
191	GATCGAGTTCTTCGTCAACTTCTC	168
2061	TCCGTTAGGTGCATGATTGG	2042
321	GGCAACTATGAACACTATCCGAA	299
818	CGAAGAGAACCTCGTCGTGGA	798
302	GGTGACTACAGCATGTGTTGGT	281
195	GCTCGTTCACGCTCAGAATC	176
1078	CTGGTGGAACAGAATCAGATGA	1057
780	GTGTCCAGGAGTGCTTGTC	761
526	TCTCGTATCTTGCCATGTAGATGT	503
423	GCGATTGGAACAACCTTGATGT	403
531	AACCAATATGACACGAAGGCAAGT	508
511	GCGACTCCTTCAATAATACATCCA	488
448	GCGACTCCTTCAATAATACATCCA	425
500	TGCTGATGGTATGTGATGACG	480
125	GAGGCATGTTGTTGTGTTG	106
117	CGAAGAAGATGTTGAAGGTGGT	96
921	GCGGCTTCGTAGACACAGTGA	901
1556	GGAAGTGGATCAGATAGAGATTGTC	1532

917	GCGGCTTCGTAGACACAGTGA	897
643	GACATCCAGAAGAACAAGCGA	623
1021	GCGGCTTCGTAGACACAGTGA	1001
252	CAACTGCCGAGTAGACGAGACTT	230
1220	GAAGGTGGTTGCGGTGCTAC	1201
1166	GAAGGTGGTTGCGGTGCTAC	1147
1107	ATGAGAAGTGATTGTTGGAGCA	1086
121	AAGTACTCTGTATTCGAATGAAGCG	97
578	TTACGGCGTTCATTGATTACG	558
301	CGAATAAGACAACAAGAATGACGA	278
193	CGAATAAGACAACAAGAATGACGA	170
151	CGAATAAGACAACAAGAATGACGA	128
638	AGCATTGCTGGCGACGACTT	619
751	TGGTACAAGCGTATTATCGGTTC	729
896	CGAACACATCTCCACCAACA	877
311	AAGCGAACACATCGTCCAGT	292
647	AAGACACCGTCAATCAGTGGATA	625
559	ATGCGAACTGGATATGGCTTA	539
623	ATGCGAACTGGATATGGCTTA	603
234	CGGAATAGTCGTTGACAGTCATAC	211
142	TCGTTGACAGTCATACTGTGTGC	120
169	GACACTTCTAACTCTTCTCCAATCCAT	142
234	GCTTCTTCACTTCCTCGCCTT	214
234	GCTTCTTCACTTCCTCGCCTT	214
129	CGAAGAACCACGATATGCCA	110
692	CGGTGAGAGATAGGATTCCAAGG	670
485	TCATCTTCTTACGTTCTTGGC	464
485	TCATCTTCTTACGTTCTTGGC	464
122	TCCGGAGCACAAGAGCTCTC	103
227	ATCTGCGAGAGCTCTTGTGC	208
976	TTGAGGAGAGACGGAGCATT	957
497	CGGAGAGGATGCTTCTAGTGAG	476
1020	ACACAATCAGATCCATATGAGACAA	996
1051	ACACAATCAGATCCATATGAGACAA	1027
909	ACACAATCAGATCCATATGAGACAA	885
1101	CACATCACTCCAGCCAAGGT	1082
713	TACAATGGCAGCAGCAAGTC	694
121	GAGCCAACGGAATATTGAGC	102
274	TCAACGAACCAAGTACAAGCG	255
280	TCAACGAACCAAGTACAAGCG	261
223	TCCTTCTGGTTGTACAATGCAC	202
843	ATCTTCTTCAACATATACAGCTACGG	818
1324	ATCTTCTTCAACATATACAGCTACGG	1299
423	CGATCCATTCGACATTGTCTT	403

228	TTCCTCAACTGCGTGACCAT	209
129	TCTTACTGCCTTCTCCGCTTCA	108
148	AATGTGTTGGCCAATCGCTAA	128
122	AACTTCTCTTCCAACCTCTCGCCTT	98
120	ACACGCATCTCGAGCTAAGC	101
145	ACGCATCTCGAGCTAGACTTCT	124
121	GCAACAACCGCTATCAACAAG	101
459	TCCTGGATCAGAGCGCTTCA	440
598	ATCAGCAACGACGGACCATC	579
676	ATCAGCAACGACGGACCATC	657
253	TTCTTGCGTTGCAGTGTTCA	234
373	TTCTTGCGTTGCAGTGTTCA	354
467	ATTGGAATCCACCACCATGA	448
283	CTGGAGCTTCTGATGGAGTGA	263
713	GTAGGATGAGCCGAAGAACG	694
538	GTAGGATGAGCCGAAGAACG	519
498	GTAGGATGAGCCGAAGAACG	479
248	CTTGTTGATAGCGGTTGTTGC	228
314	CTTGTTGATAGCGGTTGTTGC	294
1729	AGGTAGAGTGGACAACGGCTT	1709
189	AGCACTCCTCGCCAACCATC	170
128	TGCTTGCTCGCTTGTGTTCT	109
140	AAGAATCAGAGAGGTTATAGACAACGAA	113
842	TTCAGCTCGTCCTCGGTCAA	823
614	CAGAGCATCAAGTCACCATCG	594
530	TTGAATAACCATGTTGTCCACAC	508
1086	CGAGGAATAGCAGGAGCATTG	1066
1086	CGAGGAATAGCAGGAGCATTG	1066
168	GACCAGTCTGCACATCAACCAT	147
490	TTGAGAGATCGGATGTTGCC	471
2021	CAACGGAGGTAACCTGCTGAATC	2000
146	CGTTGATCCTCGACTTGGTAAAG	125
482	AACTCGGTACTGGTGAATTGTATG	459
824	CGGACTTCTGGATTACAGACG	804
1432	CATCTAAGGAAGGTAACGAGCCA	1410
1452	GGCACTATATGGCAACTGGTCA	1431
216	CGGACCAAGCCAGATAGTGA	197
388	TTGCCAGTGCTCTCCATTGC	369
842	CCGAATATGATGTTCCGCATT	822
641	CGACTAGTTAGATTACTGTGTGCCTGA	615
845	ACGTGGAATATGTAATGGCGTAT	823
228	GGAATATTGCTTCATGAGTGAGTTGTC	202
208	TCTCGTGTTGGTTAGGTTGATGTTAG	183
295	TCTTCGCCTGGAATACTGGA	276

161	TGTGTAATCAGGTCGGAGAGC	141
131	TTGACATCGAATGCGGACAT	112
744	GGTAGTTGTGGTGGTTCGGA	725
3193	GGCTTGTGATGGTTGGTAGGC	3173
1767	GGCTTGTGATGGTTGGTAGGC	1747
388	ACAGAAGCGTGTGGAACCGA	369
219	CGAGTTGCCAACTTCTAGACGTT	197
219	CGAGTTGCCAACTTCTAGACGTT	197
5458	GATGCGTCCAGGTTGTGATG	5439
689	AATCGTTACTCGGAATCTTCATCT	666
11811	CCAGTCGCATCAGTAGGTAGAAC	11789
11855	CCAGTCGCATCAGTAGGTAGAAC	11833
11498	CCAGTCGCATCAGTAGGTAGAAC	11476
670	GAAGTTGTTGGTAGTGATTGCCT	648
1335	TGATGTGTCCATTATTGAAGCC	1314
322	TTCGTGCTTGCAAGTCCAGTG	303
649	CGACGAAGTTGGATCTCCGA	630
708	CGACGAAGTTGGATCTCCGA	689
2037	GAAGCGACAGCAATGAGACG	2018
2160	GAAGCGACAGCAATGAGACG	2141
2146	GAAGCGACAGCAATGAGACG	2127
556	AGCTCTTCAACTGTCATATCGGA	534
177	AGCTCTTCAACTGTCATATCGGA	155
247	AGCTCTTCAACTGTCATATCGGA	225
404	GCTGCTGCTGCTAGGATAACTAAC	381
919	GGATCACAGCGTTCACAGATG	899
313	ATTGATCTCCGGTCCACGAT	294
360	AGCGACGGTTGTAATCTGGA	341
360	AGCGACGGTTGTAATCTGGA	341
360	AGCGACGGTTGTAATCTGGA	341
108	GGAGAACGCTAACGCTGCTA	89
348	GTAGAGCGGAGTTGGTCTCG	329
348	GTAGAGCGGAGTTGGTCTCG	329
371	TCTGCTCGCCGTTACATAG	352
234	CAAGTGGAAGTCGGTCATCATAC	212
333	GAGCAGTCATTGTCGAGGCA	314
168	CAACTCCACATTCAATCCACTG	147
897	ATTCAACTTAGCAACAACCTCCATCA	873
241	AGCAGTTGAAGTGGTAGTAGTTGAAGTG	214
362	ATCCAATACCGCCGAGACCT	343
240	GTAGACGGCGGCAGAGAGAC	221
215	GAGAATGAAGTCGGACACCAA	195
242	GTAGACGGCGGCAGAGAGAC	223
198	GTAGACGGCGGCAGAGAGAC	179

364	GGCTGCAATAGATGGTTGAGAT	343
141	GAAGACGAAGAGACCACGTGTT	120
780	AGGAACATCACACGCAACACC	760
254	TTCTTGCCTCTTATGGTCCGA	234
375	AGTGTATCCTGCGAGATGTTCA	354
397	CTACAACCTCTCTTGACATCTGACG	373
432	TCCTTGTTGTCCTCGGTTGG	413
176	TCCACCTGAACCACAATCCG	157
123	CACAGAATCCGCCACCAAGA	104
368	TCATCAACAACCTCCAACCGAA	348
304	CGTAGTCACAATCAGCAGCAGT	283
1035	GCAATTATAATCAACATGGACGAA	1012
1037	AGATGATCGGATTTCATAATCGG	1016
1066	AGATGATCGGATTTCATAATCGG	1045
716	CTCATCTTCTTCGTCTTCACCAG	694
301	TCCATGAATTGAGTGAATGCG	281
1103	GACCTTCGTTCTACTTCTGACACAT	1079
126	GCTGAGTCTCTTCAATCCGCAT	105
318	TACCATTCCAAGACCAGCGA	299
306	TACCATTCCAAGACCAGCGA	287
352	TACCATTCCAAGACCAGCGA	333
143	TACCATTCCAAGACCAGCGA	124
352	TACCATTCCAAGACCAGCGA	333
258	TACCATTCCAAGACCAGCGA	239
214	ACCATGTGGCTCCTCTCCTG	195
814	CCGAAGCATCACAACCGTAA	795
651	CGTTGCTCATCCTCCTTCTTG	631
625	GAAGTTGTCGCACTTCTGGTC	605
651	CGTTGCTCATCCTCCTTCTTG	631
944	CGTAGAGATGTTCCAGATGTTGAG	921
438	GCTTCTCGTCCACATTCTTCA	418
818	CTCGGACGTGACATCAGGTG	799
930	CTCGGACGTGACATCAGGTG	911
964	GACGTGCGAACGAGTTGGTT	945
328	TTGAAGATGATCGTTAGTTGTCTCA	304
201	GATTGTTTCGGCGGAAGAAGC	182
156	CCATCATCCTCGTCTGTTCCA	136
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156	CCATCATCCTCGTCTGTTCCA	136
142	TGTACTTGTGGCGTCGATGTAC	121
133	TGCGTGCATCAAGGAGTCAC	114
127	GATGATGCCGACGCAATGTC	108
149	CATCTACCGTATGTCATTGTTCTT	125
168	TGTGTATTGCGATAATTGCCA	148

138	GATGCACGCACGACTGTAGACA	117
120	GTCGTCGGTCGTGTGAAGTG	101
498	TTGGCTGCTTGATGCGGATA	479
498	TTGGCTGCTTGATGCGGATA	479
143	ACACTTCTCTGCAATCCACACA	122
166	GCGAGTGTGGTGTGAGTCT	147
228	ATCTAGCTTATTAGCCGTCTTCCAA	204
129	CTTAAGCTAGTTGATGGCAACGT	107
138	GCTAAGCCAGTATGTATGTGTATGAGA	112
125	CGGTGCTCAAGTACTGGATTG	105
537	CATTCCAGTTGGTTGTTAACGTC	515
791	CATTCCAGTTGGTTGTTAACGTC	769
513	CATTCCAGTTGGTTGTTAACGTC	491
791	CATTCCAGTTGGTTGTTAACGTC	769
326	CATTCCAGTTGGTTGTTAACGTC	304
139	TCGGTGTATGAGTATGAGAGTGTGC	115
1527	GAGTGGTGGAACCTCGTCAA	1508
146	GCTATTACGTCGTCTAACTGTGGTG	122
768	AGAGATCCTCCGAGAGAGTGC	748
142	TTCAGGATTCAGTGAACAGATCTG	119
151	GCGTTCCTTGTGGTAGTGTGG	131
216	GCGTTCCTTGTGGTAGTGTGG	196
151	GCGTTCCTTGTGGTAGTGTGG	131
216	GCGTTCCTTGTGGTAGTGTGG	196
385	CGTGAGTCAATGTCGTATCGTT	364
4807	TGTAGACGAGAAGGAGAGAGTTGC	4784
4807	TGTAGACGAGAAGGAGAGAGTTGC	4784
188	CATAGATGACATACGCACATTGG	166
144	CAACGGAGCGTGGATACATC	125
320	CATCGGAAGACGACGACGAA	301
131	TTCTTCTTCTCATGCTTCGTCA	110
303	GATGCGAGTTCTGGAGTTGG	284
296	GATGCGAGTTCTGGAGTTGG	277
298	GATGCGAGTTCTGGAGTTGG	279
1821	GACTGGTTCTTCACTACACGATGC	1798
361	CTCCGTCTCCAGTTAGAATAATTCCT	336
517	CAAGGCGACTGGAAGAGAGA	498
1449	AACGAATGATTGTTGTCTTCCATA	1426
210	ACAACCTTAATTGGAACCATGTAGT	186
816	CTCATTGTACTCCGGTGTTGC	796
371	CGCTCTTCACTCTCGATGATC	351
152	AACTGGTCTAAGTGTCTGTCTCTCC	128
803	AGTTGTCTATAAGGAACATCTGGAGTC	777
609	AACAGCAACATCACCTCCAGA	589

639 AACAGCAACATCACCTCCAGA	619
742 AACAGCAACATCACCTCCAGA	722
3834 TGGAGTGTTGTCTGGATTGAAGT	3812
3834 TGGAGTGTTGTCTGGATTGAAGT	3812
3834 TGGAGTGTTGTCTGGATTGAAGT	3812
3834 TGGAGTGTTGTCTGGATTGAAGT	3812
3834 TGGAGTGTTGTCTGGATTGAAGT	3812
3834 TGGAGTGTTGTCTGGATTGAAGT	3812
3929 ATAAGAGCACGACATCCACTGA	3908
3929 ATAAGAGCACGACATCCACTGA	3908
475 CGGAGTCAGTGTCTCAGAGGCATT	454
472 AGAGCAGACAAGAACGCCAT	453
111 AGTGATATCGTTCAACTCCTCATAGC	86
111 AGTGATATCGTTCAACTCCTCATAGC	86
139 GCTTGTTCCATTTCAGCACATGC	118
603 GTCAGGCGTCTTGAATGTGTT	583
740 GGCTTCTTGCAAGCACTTCAGC	718
312 CTGTCCTGGCTCTCCTGGTG	293
274 TTGGTTGTGGCGTATGGTTC	255
398 TGGTGTCCAGTGGTCAGAATC	378
120 GGCGGCTGATTCCAGGTATG	101
152 CGGAGAATGGAGAGTTGTCTG	133
89 CGGAGAATGGAGAGTTGTCTG	70
267 TGGTTCAAGGCATTGGACAA	248
279 TCTCCTCGTCAGTCGCCATT	260
140 TCTCCTCGTCAGTCGCCATT	121
531 CAGCGAACCTCACGAAGTCC	512
455 CAGCGAACCTCACGAAGTCC	436
284 GCGACGACGTCAGAATCCTC	265
849 GAACACTCGGAAGATGTTAATCTCT	825
119 GAATCCTGCTCAACCTCCTCA	99
836 ACCGAGGTGACGAGCAGAAG	817
825 CCGAGGTGACAAGCAGAAGC	806
305 GTCAGTGGCTTGTTCTCTGTCA	284
523 GTAGTCCGACAGCGTGCATT	504
153 GGCAATCGCGAGAGAAGTGT	134
320 GGCAGTTGTAGCAGGTGGAT	301
160 GGCAGTTGTAGCAGGTGGAT	141
310 AAGTGGCGAGCAGAGACGGA	291
767 GTGAATATCACATCTTCCGAGAGTT	743
749 GTGAATATCACATCTTCCGAGAGTT	725
176 GTCAGTTGCTCATCTCCATAAGC	154
217 CGACGTTGATTGTGCTCCA	198
171 CTATTCACACATGGTCCGACAA	150

186	GAGAAGAAGAGGAGAAGTCTTGAGAA	161
195	GCAGAAGATTCGTCTTGCTCTAG	173
388	GGAATACATCTTATGTAGCAGGACAC	363
427	CCAACAGATCCGAGTATGATAATCATG	401
997	GCAGACGAGATTGGTAGTTGGC	976
958	GTAGTTGGAGTTGATTGTGGCA	937
1135	TGGTGACATGGTGACAGTGC	1116
958	GTAGTTGGAGTTGATTGTGGCA	937
958	GTAGTTGGAGTTGATTGTGGCA	937
482	CAATGGCAATGGAGACGAAT	463
891	GATAGCCATGATGATTGTGATGA	869
517	GGAGTATTGCTTGATGTAGGTTGTG	493
383	GGAGTATTGCTTGATGTAGGTTGTG	359
241	CAGCGATGATAGAAGCAATAAGG	219
861	AGTCCACACCAACCGCTCAT	842
600	CACATCTGCCACGATTGCTG	581
1321	GTCGGTCATCTCGTTGTTCTG	1302
170	GAGCATCATGGCACGGAGAG	151
610	GAGCCAACTCCAACTTCCAA	591
554	TGGCTGGTGATAGTCCTCTCG	534
1857	TGGCACGAATCCTGACTCTT	1838
1863	TGGCACGAATCCTGACTCTT	1844
814	CGAACTGCTTGTGTGCTTGT	795
89	TTGAGGTCTTCCATTCTTCGG	69
86	TTGAGGTCTTCCATTCTTCGG	66
215	TTGAGGTCTTCCATTCTTCGG	195
185	TTGAGGTCTTCCATTCTTCGG	165
339	TGCGAAGTTGCGAAGCGATA	320
185	TTGAGGTCTTCCATTCTTCGG	165
454	TGCGAAGTTGCGAAGCGATA	435
363	TGCGAAGTTGCGAAGCGATA	344
760	TGTAGAACCATCATCACGGCATC	738
778	TGTAGAACCATCATCACGGCATC	756
1100	CACGAGGTACAGTGAATGTGAGC	1078
1162	CACGAGGTACAGTGAATGTGAGC	1140
727	TTCCGTTGGTATTCGCTGTAC	707
789	TTCCGTTGGTATTCGCTGTAC	769
1171	CACGAGGTACAGTGAATGTGAGC	1149
408	CGTGTGTTGGCGGAAGAGAC	389
3316	AATCCACACACCTTGAGCCA	3297
387	TCATCATTCGACGTGAACACTC	366
436	TCATCATTCGACGTGAACACTC	415
370	GCTGACCTGATAACTGATCTGCT	348
370	GCTGACCTGATAACTGATCTGCT	348

174	CCACGAAGGAATGCTCTGTTG	154
139	AGTAAGGCAGAGGAGGTGTAGAAGT	115
222	AGTAAGGCAGAGGAGGTGTAGAAGT	198
529	TCTGAGAAGAGCTTGATGATATTCC	505
220	TCCAGACATTACTTGACGAGTCTTC	196
265	CAATGAATTGTCGCACTCCA	246
133	GGACGCCTTCTCAATTCCTC	114
4083	CCGATTCCGAGTGAGCAACA	4064
1122	CCGATTCCGAGTGAGCAACA	1103
1001	CATTCTTGGAAGTTCGTTGTATCG	978
909	CATTCTTGGAAGTTCGTTGTATCG	886
1061	CATTCTTGGAAGTTCGTTGTATCG	1038
2208	ATTGGTGTCTCTCGGCACTC	2189
562	ATTGGTGTCTCTCGGCACTC	543
325	GGCCAGCTGAAGTCTCACA	306
376	AGACGGACCTGATCCTCTCG	357
504	AGACGGACCTGATCCTCTCG	485
317	ATGATGATGATGAAGAAGGAAGC	295
317	ATGATGATGATGAAGAAGGAAGC	295
317	ATGATGATGATGAAGAAGGAAGC	295
317	ATGATGATGATGAAGAAGGAAGC	295
269	TTAGGATACATTGAGGACTATTGTGG	244
2512	TGGTAGTGATGGTGGAAGGATT	2491
776	TGTGGTTGGTATTGCTGGAA	757
1479	TGGTAGTGATGGTGGAAGGATT	1458
443	CCGTCATATCCTCCATCGTC	424
940	TGGTAGTGATGGTGGAAGGATT	919
826	GCTGGCGTTGATAACTGGCA	807
137	TTGGCAAGTGTGTTGTTGTG	117
175	CCATGTACATTAAGTGGCAAGATG	152
2974	TACAGGACGGATGAGGCACA	2955
123	GGAATCGATATTGTCAGCCTGA	102
361	GCTTGTTGAGGTATTGACGGA	341
180	ACCATGAAGGAAGCACGTTG	161
178	ACCATGAAGGAAGCACGTTG	159
102	GGTGATGTAATCCACGAATGAGC	80
180	CATATTCTTGCACTTCTCAGGAA	157
177	CAGCATACACATAAGGTGGAAGC	155
124	CAGCATACACATAAGGTGGAAGC	102
538	TGACGACATCACTGATACCAATC	516
229	CGATGGCAGTTGACTGAGAGA	209
538	TGACGACATCACTGATACCAATC	516
251	TCATCTTCCTCTTCGTGAAGTGT	229
569	TGACGACATCACTGATACCAATC	547

159	CAGAGACGGTGATATAGAACTGATGG	134
212	CGGATACTTGGTCACGAAGGATT	190
474	CTGGAATGTTGCCTGGATGA	455
141	CCTTCTTGCCACAGAGATGG	122
262	CGAATTGTTCTCCATCGACTTG	241
186	CGTCAACTGCGATCAAGTGAAG	165
146	AGTGACCTGATGCGACGAAT	127
1041	CCTAGAGACCACATGTCACACGA	1019
1155	CCTAGAGACCACATGTCACACGA	1133
1052	CCTAGAGACCACATGTCACACGA	1030
1041	CCTAGAGACCACATGTCACACGA	1019
1155	CCTAGAGACCACATGTCACACGA	1133
1052	CCTAGAGACCACATGTCACACGA	1030
836	CCTAGAGACCACATGTCACACGA	814
1040	CCTAGAGACCACATGTCACACGA	1018
767	CCTAGAGACCACATGTCACACGA	745
904	CCTAGAGACCACATGTCACACGA	882
904	CCTAGAGACCACATGTCACACGA	882
836	CCTAGAGACCACATGTCACACGA	814
1040	CCTAGAGACCACATGTCACACGA	1018
767	CCTAGAGACCACATGTCACACGA	745
836	CCTAGAGACCACATGTCACACGA	814
578	GCAGATGAAGACGATGAAGAGAA	556
417	TCCTTGAAGATTATCTTGAGAATGAC	392
509	TCCTTGAAGATTATCTTGAGAATGAC	484
1153	CCATCTTGTTGACAGATTCCAA	1132
1001	CCATCTTGTTGACAGATTCCAA	980
871	CTGGAACAATGGCAGGACAA	852
955	CTGGAACAATGGCAGGACAA	936
5108	AGAAGAGCCAGGTCGTGAACT	5088
215	ATAGACACCGCTGAAGCTGAA	195
149	CCTTCTCTCTTCATTGCAGTCC	128
243	GCACGCCTCCTACAATCCAT	224
517	ATTCCGATTGCTCCACGATT	498
467	ATTCCGATTGCTCCACGATT	448
1765	TCCAGCAGACACCACCGTAG	1746
622	CATTATGGTTCCAATGTAGTTCCA	599
661	CATTATGGTTCCAATGTAGTTCCA	638
302	CCATTGTAGTAGCCGATTAGTTGC	279
200	CCATTGTAGTAGCCGATTAGTTGC	177
752	GTCGCTCGGAACACACTGAT	733
537	GTCGCTCGGAACACACTGAT	518
881	AGCATTGTAATAGTTGATAATACTCCGT	854
371	TCTTCTAGGAATATGACAATTGTTGC	346

802	CATACATGTCTCTTGTAGTTGATATTGC	775
348	GAACATTGAGATGATGGATACTGG	325
338	AACATTGCGATTATTGAGACTGG	316
329	GAGGAGGAAGTGCCGCAGTC	310
285	TCACATTGTCCGACGACCTC	266
150	GATGTCTGCGTCTCTAAGTTGTCTC	126
1852	CGTCGGAAGCCTTATCCTTG	1833
141	TTGCTCAATTCATCGAGAAGG	121
1864	CAGCATCAGCAGCATCAGAC	1845
2134	CAGCATCAGCAGCATCAGAC	2115
1548	CGAGCGAAGAGTGTCCGTAT	1529
1725	CGAGCGAAGAGTGTCCGTAT	1706
957	CGTCGGAAGCCTTATCCTTG	938
3900	CGAGCGAAGAGTGTCCGTAT	3881
4170	CGAGCGAAGAGTGTCCGTAT	4151
89	TTGCTCAATTCATCGAGAAGG	69
2050	CGTCGGAAGCCTTATCCTTG	2031
2110	CAGCATCAGCAGCATCAGAC	2091
2062	CAGCATCAGCAGCATCAGAC	2043
4146	CGAGCGAAGAGTGTCCGTAT	4127
4098	CGAGCGAAGAGTGTCCGTAT	4079
1954	CGTCGGAAGCCTTATCCTTG	1935
1966	CAGCATCAGCAGCATCAGAC	1947
4002	CGAGCGAAGAGTGTCCGTAT	3983
2178	CGAGCGAAGAGTGTCCGTAT	2159
1132	AGGAGTGCGATGAAGAACCA	1113
902	CCGAAGAATGAGATGGCAAC	883
2946	GCATAATGAACCGGAACAGG	2927
272	GCCTTCCAACCTCTGAATCCG	253
371	ATACATCGGAAGGTGTAGTTGTCA	348
421	GGCTCTCAACTCCTCCAACCTC	401
364	CTTCTGGCTGTGGTGCATCC	345
635	ACGTCTGTATGAGGCTGCATC	615
244	CCGTGTGTTCTTCTTGAGTGGA	223
815	ACGATCACACAAGCCACCTTC	795
382	TCGCTGGTAGATGGTTGGAG	363
285	ACCTGGTCACTGCATTGACA	266
484	TATCGCTAGGTGGTGACGGA	465
258	ACTGCTAATGTCACTGGTTCAAGA	235
1168	TCACAAGATAATCACAGTATGGAATG	1143
319	GATCGTGAACCTGGCAGAAGG	300
787	TCTGGCTGGTCACTTCATCA	768
1352	CAATCCTTCACCAACGCAAT	1333
1294	ACGAAGATTGACGGAAGGATT	1274

1154	CTCGACTCGGCAGTGAGCAT	1135
179	CAATAATCCTGGTGCCGAAT	160
178	CAATAATCCTGGTGCCGAAT	159
221	ATTGTTGAGTTGGCGAGCAT	202
464	GGAACCGCTTGACAGGAGTG	445
325	GCTGTGGTCCGAAGTTGAGA	306
2542	CACCTGATGATAACACCGACAA	2521
2515	CACCTGATGATAACACCGACAA	2494
2383	CACCTGATGATAACACCGACAA	2362
263	AGTAGACATAGTCGAATTGAAGACAGTT	236
504	TGAGCATTGTTGTATAGCCAGAA	482
543	CGAGAAGTTCACAATAAGTTACTGGA	518
418	CGAGAAGTTCACAATAAGTTACTGGA	393
129	TCCAAGAGAATCATCCATTGTCT	107
1598	ACCGTCAAGCGTGTTCAGAA	1577
726	ACCGTCAAGCGTGTTCAGAA	705
2748	ATCAGCGAGAAGCATCAGAAAGT	2727
2687	ATCAGCGAGAAGCATCAGAAAGT	2666
231	CGGACATCATCGGATTGCTA	212
430	CACAGGACATTGCACACGTCTG	409
136	CACAGGACATTGCACACGTCTG	115
2863	TCAGTGTGTCGGCATTGGAA	2844
978	AACAAGACAGTTGTGAGGATCAAG	955
87	TGTCACTGGAACAAGGATGGT	67
397	TCAGCGGTGTATTCTCTTCGTC	376
1043	GACATTCCAGTTGCATTCGG	1024
1584	GCGAGAAGTGTTGAGTATGCTG	1563
494	AATTCGATGTTGGCGTTATCC	474
336	CATATAATCCTGTCAGAATGGTAGAACG	309
154	CTTGTCCATTGCGCCACACCT	135
456	CGCTGATACTGCGTCGAGAT	437
154	CGACGAGACTCAGCGATGGA	135
802	GCAAGGTGTACAGCACTAGAATGG	779
751	CCACTACTTCATATGAGCCAAGG	729
1514	GCCACGATGTGATCCTCCTC	1495
1504	GCCACGATGTGATCCTCCTC	1485
1374	CTTCATTGTTGCCGCCACTA	1355
313	TTGAGACAAGATCCGAGAGGTT	292
2275	GTCCTCATCTTCCACACTTACTCG	2251
335	AATAGTCCAGCACAAGCCAAGT	314
193	GCCGAGAGTTAGGATGTGGTC	173
214	GCCGAGAGTTAGGATGTGGTC	194
152	CACCGATAATATACGCAAGGC	132
2878	GCAGCATAGCACCAATCAACT	2858

153	GTGAATCATCAGAGCATCAGGAT	131
262	TGTTGTAGGTGTAACGGAAGTTCA	239
170	CACATTACCATCACTCCAGAACAG	147
189	TCAATTACAGCTAAGCTCGTGTCT	166
264	AAGAAGCACGAATCCGCAGT	245
448	TGTGAACCTGAATCTTGTCTCTCA	425
1245	GGAACGACTGACGACTTCTCTC	1224
1243	GGAACGACTGACGACTTCTCTC	1222
939	AGTGAACAAGGAATGGCAGAA	919
861	TTATCAACGAGATGATCCTCCAA	839
537	TTGTGCTACAGTGACTCCGTTC	516
781	AAGTCATGTATGCCACTGTGCA	760
874	CACCATGCTCTTGGATGACC	855
234	TGGAATCGGCAGGACTACAG	215
548	TTATCACACCACATGTACGGTTGA	525
501	TCAAGTGATGAATTGTGCAGGATT	478
1655	GTGAACGGATTGGCTATGACA	1635
1175	GTGAACGGATTGGCTATGACA	1155
1350	TCCTGGCTCAATCATCACTTCA	1329
1874	CGAGTTGGAGTAGCCTGACG	1855
981	TGTTCTGTTCCATCCGTTGA	962
483	CGAGTGCCAGTAGCCGATTG	464
2117	GAGTCTGACGAGTGTTGGTGAA	2096
655	GCTGGCGAGTAGAGAAGTGAA	635
127	TTATCTCGTATCACATGCTCTCACAT	102
157	AGCGGTTCTCCGAAGAGAAG	138
249	GCTTAACGTGACACGAAGAATACTCT	224
770	CCAGCAGTTCCTTGAAGACTTG	749
2048	TGGTGGAGTTGATTGTGTGG	2029
596	GTTGCGGACGAGGTAGCCAT	577
172	TTGCATATACGTGCTCCAGTCG	151
479	TCGCCATATAACTATTGTTGAGCA	456
328	CATTCCGCCGCTCATATCTAC	308
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524	CATTAGGACCGTGTGAAGCC	504
598	CATTAGGACCGTGTGAAGCC	578
639	AACAATATAGAGATATGTGGTGATGAGG	612
150	TCGACGACTGGCTTCTCACC	131
316	CCTAACTGTGTCGCACCATTC	296
275	CCTAACTGTGTCGCACCATTC	255
327	CCTAACTGTGTCGCACCATTC	307
247	CCTAACTGTGTCGCACCATTC	227
491	AACATCATCGCATGTGTTACAAC	469
1405	AGGATGAATGATGAAGAGATACGAAGA	1379

139	CTGACATTCGCTCCGCAAGT	120
196	CGGCGTTATTAGCAAGCATC	177
160	AGTGGTTGGCATAATTCAGGAGAT	137
4413	GTAAGATCGGTGGAACCTCTTCG	4392
220	CTCACATTCCTTCTCGGCAA	201
244	CTCACATTCCTTCTCGGCAA	225
330	TGCTACATTCCTCCGTGGTG	311
2369	TCGCAGACCGTTGATAAGGA	2350
138	CGGATATCAATACTCGTATTCGTG	115
481	CAGCGTCCGGTAGACAGTCT	462
3429	TGCGTTCTTCTCAATCCATCC	3409
629	GTCTTGACGATTGCAGTCC	610
1057	CATCACAACGAGAACATCCAGA	1036
165	GATGCAACCTTCACATAACGTGT	143
122	TGATCGATGAGCTTGATTGTAGG	100
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282	CAGCACAGATGGCAAGGATG	263
465	CAGCACAGATGGCAAGGATG	446
380	CAGCACAGATGGCAAGGATG	361
367	CAGCACAGATGGCAAGGATG	348
236	TGAAGGAACCGAACGACAATC	216
574	TAGCATCTGGTGGACGAACG	555
918	TTCTTCATCACCTGCGAGTTCA	897
918	TTCTTCATCACCTGCGAGTTCA	897
860	CGAGTCATTGATGGTAGAGCAG	839
169	GCTGTTCCACCTCTCTCTCTC	147
227	TTCTCAATCGGTTGAACGC	208
352	AATGAGGATGGTACGGTAGCC	332
133	TTCCAACCATTCCAACCAGACTT	111
122	AGTTCTTGTCTATGTCCATACCATTG	97
170	CCAGAGTGACATTGTTGAGCA	149
1244	TCTGGTTGGAATGGTTGGAA	1225
489	TGGCAATGTCTCATGAAGGA	470
197	TCATTAGCTCAGCTTCATCGG	177
128	TCGTTCGTGTGATGATGTGAA	108
530	CACAGCTCGCCTGTTGAGAA	511
548	CACAGCTCGCCTGTTGAGAA	529
425	TGCATTGAGCTCATCCTGA	406
366	CGTGGAACAGGAGTATCTCGTCT	344
382	CAAGAGTTGAATAACGGTTAATAATCC	356
295	GAGACGCCGATGCAGAAGATC	275
165	GCTGTTGCGTGTCACTCCATT	145
1332	CCACTTCCACGAACGGTCAA	1313

518	CCACTTCCACGAACGGTCAA	499
588	TGTGACCATCCATTGACGAGT	568
210	GTTCCGAGGTCCTTGTAGTCC	190
264	GAGCCAACCAAGAGCACCAT	245
575	GTGGCACAAGTCTCGTGGAG	556
3561	TTGCTCAGTCTGCTCCTCCA	3542
3576	TTGCTCAGTCTGCTCCTCCA	3557
239	GCTTGAACCTCTTCCAACCTCTGG	217
1774	CAGAAGATTGATAAGCGATGCC	1753
1249	TGAGCTGTGCCAGAGTCAAGTC	1228
1249	TGAGCTGTGCCAGAGTCAAGTC	1228
2389	TCAACACCTCATCTTCACCGA	2369
354	TCGAGCAACTCCATCTTGACTT	333
1327	TGAGCTGTGCCAGAGTCAAGTC	1306
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432	CGACGAACATTGGAGCATCA	413
473	CGACGAACATTGGAGCATCA	454
414	CGACGAACATTGGAGCATCA	395
496	CGACGAACATTGGAGCATCA	477
248	GTCGTTGCTGATGTTGTTG	229
422	GCACCACTTCCACTTCCAGA	403
2684	GAGTGAACAGCAATCAGGAGAGT	2662
779	AATGCTGCAGAGGAGTGGAA	760
1886	TTGACACGAGAAGTGAATGACC	1865
876	GTCGCTGAATATGGAATGGAAG	855
593	CAGCAACTCATGTTACCAGCA	573
787	CGAACTTATCCTTGATTGCCA	767
785	CGAACTTATCCTTGATTGCCA	765
199	TGGAGTCCTCTAGGTGAGTTGTC	177
231	CAAGTAATCTGATATTCTTAACCTTCCA	204
907	GAATAATCGCAGTCAACCAAGT	886
649	TTCGGTTGTGCAGTTGAAGG	630
913	CGGTGGTGGTGTCAAGGTAA	894
1016	GGTGTGGTGAGCAAGTTGTTG	996
1099	GGTGTGGTGAGCAAGTTGTTG	1079
438	GCAGCCACAGCAACAATCGT	419
467	GGTGACGCATCCGAAGTAA	448
456	TGTTGTTCTGATTCAAGTCATAGTGT	430
120	TAGAAGCACACAGGCACCGA	101
185	TGTCGCTCCTTACCGTGTGC	166
497	TTCGCTGTGGAAGTGTGTG	478
464	CAAGTCAATGTCACTGATTCTCCT	441
1091	TGAGCGGAATGTGAGGAAGC	1072
644	TGAGCGGAATGTGAGGAAGC	625

2384	TTCATTGATGTCCTCGGAGAGTAC	2361
1816	TCATTGATGTCCTCGGAGAGTAC	1794
119	AACTGTTTCGGCGGAAGAATC	100
119	AACTGTTTCGGCGGAAGAATC	100
150	AACTGTTTCGGCGGAAGAATC	131
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121	GGTCCGCAAGAGGATCTACT	101
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127	TGGTCCGCAAGAGGATCTACT	106
130	TTGTGTAGGTGAGTGTGACCAATC	107
177	AAGTGGCAAGCAGTCACACTT	157
193	GCCGTGTCGACTCAATTCAG	174
261	CAGCGGAAGTGAAGTGTGCG	240
583	CGATTCATCATCAGAGATGTTGG	561
1068	TGCTGTTGTCCTGGATAGATTGG	1046
1777	TGCTGTTGTCCTGGATAGATTGG	1755
263	CGAAGTGACTGTGGTGGAGCA	243
1029	TGCTGTTGTCCTGGATAGATTGG	1007
1738	TGCTGTTGTCCTGGATAGATTGG	1716
178	CAATGTCAGCGTAAGAAGCGA	158
202	CGGCGTAGTCGAGTTAACGG	183
457	TTCAATCCTCCAGCCACATC	438
536	CGTGGCAGTTCGGATACTTC	517
680	TTGGAGAAGTTGTCCTCGGTAC	659
693	ACGGCGGTAGCAGAGGATTC	674
176	TCATCAAGTTGGTGTAAAGAATATGC	152
451	TCGGTCCTGTGCTGTATTTCG	432
923	CCAGTGTAGGTCTTCACAAGTGTCA	899
591	GAGTGGCGTGAAGTCTGGAT	572
561	GAGTGGCGTGAAGTCTGGAT	542
606	GAGTGGCGTGAAGTCTGGAT	587
324	AGCCACGAATAACAGAGCAACT	303
1060	CCGTAAGCACATAAGTTCTGACAT	1037
180	GAGCCAGATCAGGTGTTATTGTAGA	156
100	TCGGAGTTATCGTCTGGTGTTTC	79
141	CAGCACGAACATGATCCAAG	122
2041	GGCACTTATCACCACATCCG	2022
162	GAGCACTGGTTCCGCATTCC	143
154	CTGATGTTGTTGTCTTCACTCCTT	131
175	GAGGAGGAAGCCGAATCAGC	156

197 TCACGAGTCAGAATAGCCACAC	176
318 CGGTTGTTGTCATAGAGATCTTGTG	294
1823 CCAGATACGATCACGAGTCTCC	1802
1834 CCAGATACGATCACGAGTCTCC	1813
216 CATATTCCTGATCCACTGCGA	196
191 AAGATTCCAGCGAAGAGACAGA	170
383 AGATGAGTTGATGGACGAGTAGG	361
2076 CGAGGTGTTGAAGTTGTTGAGC	2055
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282 TGGAATCCAATCGAATGAACA	262
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128 AGAGCATATTGCTTCTAGACGTTGT	104
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128 TCAACCTGCCATCTCACCTT	109
229 TGGTGTTGGAATTCATTGC	210
130 CACAATACAATCTTATCCTCATCCTTC	104
708 ATGGCTCCTCTCTTCTGTATGG	687
731 TACGCTGAGAGTAACTGGTTGC	710
726 TGCTGCTGTGATGATACTGTTG	705
761 TTGTTGCTGCTGACGACGAT	742
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668 ACAATCATCTTCGTGCTCACTG	647
479 ACAATCATCTTCGTGCTCACTG	458
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121 AGTTGAGACGGCGAATGCTT	102
132 ATTGCTTGTTAAGTTGGCCACA	111
2309 AGGACAAGGAATCGGACCAA	2290
2281 AGGACAAGGAATCGGACCAA	2262
739 AGTCGGCGTATCCTGGTTGA	720
519 AGTCGGCGTATCCTGGTTGA	500
516 AGTCGGCGTATCCTGGTTGA	497
220 AACTCTGTCTTCCGAGCCAA	201
212 GCCTTGTTGGTCATTGGATT	193
115 CAAGATATGATTGTGGCGGAA	95
584 CATGCAGAATTCATCAACAAGG	563
988 TTGAAGTTGTCTTGACTATTGTGTTG	963
484 GGCCATATGTGGATTGAGTCA	464
443 TCGTCGTCGTCGTCGTCCTTG	424
455 AAGATGAAGGCACTCGCAAG	436
246 GACGACGACGGATGATGATG	227
246 GACGACGACGGATGATGATG	227
246 GACGACGACGGATGATGATG	227
1564 TTGTTGTCGTTGTTGTGCTATTG	1541

2756	GCTGGTGGTGGAGATGTCGT	2737
307	GCAGCTCTTCGATGGTGTCC	288
202	CGACCGCACTGAAGTATGGC	183
154	TCCTCTGCTCATTGATGTA	131
1681	CTTCTGGTACTGGAACATCGGATT	1658
811	GACGGTAAGAGGTGAACGGA	792
841	CGATTGCAGTTCTTCTTGGC	822
847	CGATTGCAGTTCTTCTTGGC	828
549	AGTGGTGGAGTGGAGAAGCA	530
219	AGTGGTGGAGTGGAGAAGCA	200
775	AAGCAGGATGACGGAACAGG	756
775	AAGCAGGATGACGGAACAGG	756
306	ACATCCACGTGCAGTGAATG	287
546	GGCATCATAGTTGCTCATTCCG	525
132	TCACCGAATCGACGCATACC	113
772	ACTCGCAGAGCCTCGGAGAA	753
835	ACTCGCAGAGCCTCGGAGAA	816
510	CAGGATTAGTCCGTGGATTGG	490
388	CAGGATTAGTCCGTGGATTGG	368
364	CAGGATTAGTCCGTGGATTGG	344
385	CAGGATTAGTCCGTGGATTGG	365
158	TTGTTGCTGCATGTATCCACTAC	136
432	CGATGCTTCTGCCACTTCTTC	412
341	GCATTGAGAATAAGTCCATGTATTGG	316
178	CAGCAGTTGGACTTCAGACGA	158
410	CAGGCTCAGGTCCAGTGTGTG	390
1025	CAGAGAGAATCTTCTTCGCTGAC	1003
219	TGAGTGAGCATTATTCTTCGGTT	197
176	CATTGCACTCGGACGTTCTATC	155
703	CAAGGAAGAGCTGCATTGGT	684
608	AGAGGAAGAGCAGCGTCACC	589
1235	TCAGGACAAGTTCTCGTTCGTG	1214
1235	TCAGGACAAGTTCTCGTTCGTG	1214
1396	TCAGGACAAGTTCTCGTTCGTG	1375
1235	TCAGGACAAGTTCTCGTTCGTG	1214
1061	AAGAACTCATCAAGAGCATCACGAA	1037
1061	AAGAACTCATCAAGAGCATCACGAA	1037
12074	AGCATCTTCTTCTTCCATCCAA	12053
11894	AGCATCTTCTTCTTCCATCCAA	11873
12162	AGCATCTTCTTCTTCCATCCAA	12141
12090	AGCATCTTCTTCTTCCATCCAA	12069
124	GAGGCCGATTGTTCTGACTGC	105
150	CTGTCGTCGTGTCCTCATAGC	130
150	CTGTCGTCGTGTCCTCATAGC	130

1046	CGATAGATGCACCTGCTAAGC	1026
181	TCATCAATTCTCGATTGAATCTCG	158
361	CAGTTGTTATTACCACGGCTATCG	338
181	ATTCCATTGCCGTGTGCCAT	162
534	GCGAACTTGAGATGGATGTTG	514
234	ATTCCATTGCCGTGTGCCAT	215
223	ATTCCATTGCCGTGTGCCAT	204
154	ACAAGCCGTACAGTCAAGCC	135
677	CGAGGTGGTCATCCAGACGA	658
1823	TTCAACAGGTCTCTTCGCTCTT	1802
215	TGATAGAGTTGATGATGATGTTGGTC	190
426	CGAGCTCTCTGTCTTGATCCACTT	403
423	CTCCTTGGCGTAGTCGGCAT	404
204	CCAGGACTAGAAGCTGTGTCTCG	182
394	AGTGTGGCGAGAAGGCCGAAC	375
540	CTCGGCGGATCAGACCAACT	521
868	GAATGAAGTAGACTGGTGAGAGCA	845
868	GAATGAAGTAGACTGGTGAGAGCA	845
897	CAGATCAGCGGCTTCACCAC	878
936	CAGATCAGCGGCTTCACCAC	917
383	CAGATCAGCGGCTTCACCAC	364
1165	GATGATTCTGCTGTTGTTCCG	1145
745	GATGATTCTGCTGTTGTTCCG	725
943	GATGATTCTGCTGTTGTTCCG	923
511	GATGATTCTGCTGTTGTTCCG	491
1129	GATGATTCTGCTGTTGTTCCG	1109
452	ATACCACAGGCGGAGAGAGC	433
122	TGCCACTGCTGTAATGCATG	103
1691	GTGTCTTGTCTCGCTCGTT	1672
1522	GTGTCTTGTCTCGCTCGTT	1503
415	TTCTGGTTCGTATTCCTTGAGC	394
415	TTCTGGTTCGTATTCCTTGAGC	394
415	TTCTGGTTCGTATTCCTTGAGC	394
415	TTCTGGTTCGTATTCCTTGAGC	394
176	CGATACGGATGGTGGTGGAG	157
1294	GACGGTCAGGTACACGGATG	1275
151	GCCAAGTGAGGAGAACGAGA	132
287	GAGACAACATCAACTTCACCGA	266
126	GCAGGAGAGAAGAAGAAGAAG	103
357	TCTGCTGCGACTTCTTCTGT	335
151	GGAACGAGAGAGAGTTCAGACAGA	128
874	GTGGTCTGACGCAGTTGGAG	855
735	AACTCTCCACGCATTGAACTATCC	712
430	GCCACGCATCATTCTGTTCG	411

[illegible]

1597	GAGCATCCAGTTCCAGTGTCT	1576
431	CCAGAGAATGATGCGAGGAA	412
431	CCAGAGAATGATGCGAGGAA	412
693	TCATCATTCTGGTCTTCATCACG	671
1140	CTGGTCTTCCGTGTGTTCCG	1121
1291	CTGGTCTTCCGTGTGTTCCG	1272
1415	TTCCGACAGTTCCTCCAGTG	1396
125	TGACAAGTGCTCGAAGTATTACTCC	101
128	AGGTGTCTGACTCTGACCGTCTG	106
147	GTTGGAGGCTTGGCGTATGG	128
137	GCACATAAGAGGTGCCGGA	118
1084	CCTCTGTATTCGGATTCAACTCG	1062
1205	CCAGCGGTGAATAGAGCATC	1186
282	TTGGATGGTCGGTCTTGGA	263
1059	GCAAGACACCAACGAGTCCTAC	1038
128	CCAACGACAGATGCAAGTAGTACA	105
251	CTTCTCTTCCGTGAGCACTTCT	230
534	CTCATATCTGCCGCTGGAC	515
565	GAGGACGCAGACAGAGAAGG	546
126	TGTCACAATGTCATGAATCCAAT	104
116	GGCTCTCGCATTCCACTTCG	97
365	CCAGTAGGAGTTGAGAACACGGA	343
373	CGTACACCGAGAAGGTTGGA	354
408	CTGATTGATTGAGTGGTCTTGAGG	385
612	GATGGACGAGCAATGACGAG	593
233	CCAAGGTAGCCGCATTCTCG	214
233	CCAAGGTAGCCGCATTCTCG	214
156	CACCGACTTCATTCCACCGA	137
240	GCGAGAGCATAGGTTCCGTAGA	219
234	GCGAGAGCATAGGTTCCGTAGA	213
359	AAGAGGATGAGACCACCGTAGA	338
71	GAAGAGGATGAGACCACCGTAGA	49
722	CATAGGACGAGAGACGGAGTTC	701
727	CATAGGACGAGAGACGGAGTTC	706
715	CATAGGACGAGAGACGGAGTTC	694
136	CAAGAAGTTGGAACAGTAGAGATCG	112
147	CAGATGTGCAGTCATGTCCGA	127
1128	AGTTCGGCAGGCTTCATCTC	1109
147	TGGCGATTGTTGATGTGGTT	128
926	AGTTCGGCAGGCTTCATCTC	907
942	AGTTCGGCAGGCTTCATCTC	923
1094	AGTTCGGCAGGCTTCATCTC	1075
1110	AGTTCGGCAGGCTTCATCTC	1091
656	CAGGACGAGGTGATGGTGTC	637

136	CCTCATTACTATCGCCGCAT	117
291	TCCTCCTTCTCTTCAATATCGTTAC	267
149	AAGTAGCAACTGCGGCAACG	130
719	AAGAATAAGACGGAACCTTGAGACG	696
91	CAGTTGAGGCTCCGTATGGT	72
507	CGTGCGGAGTATTGAAGCGA	488
201	TCTGGACATAAGCATTGCGA	182
2075	CCTGCTTGAGGATGGTGAGA	2056
1484	TCAACTTCCAGTACGGTAAGAGC	1462
897	CCATACAATATCACTGTTACCAATGAGA	870
283	GAATCCGACATACCAAGCCAT	263
457	TCACCACATTGAGCGTCAGA	438
442	TGAGCATAATCAGCGTCACTCT	421
446	TGAGCATAATCAGCGTCACTCT	425
337	GGAAGTAACGATACTGTGTCACAACCT	311
681	GGATGTGTGACGGAACAGACT	661
614	TTGACGAGGAATTCGCTCTT	595
263	CGTCATCGTCCTCCATCTCG	244
363	TCCGAGGCATAGAGAGAGGCA	343
170	CCGAGGCATAGAGAGAGGCA	151
405	TCCGAGGCATAGAGAGAGGCA	385
403	ACGCTGCTGCTTCAACTTCA	384
298	ACGCTGCTGCTTCAACTTCA	279
349	ACACGAGAAGCGGCACGATT	330
1038	GCGGAGAGAGGTGTCCAGTG	1019
366	AGTGTGAGGTGCGGCTGGAT	347
247	TGTGAATTGGTGAGAAGAGTCG	226
498	TCGACCTCCTTAACCGTCATC	478
185	TCGACCTCCTTAACCGTCATC	165
4116	GACATCCTCACGCTCCACAC	4097
2469	TGATGGAGACTGCCGTGTGA	2450
2469	TGATGGAGACTGCCGTGTGA	2450
176	CCTTCCACATTGCGTCGGTT	157
859	TCGCATTCTCGCCTACAAC	840
859	TCGCATTCTCGCCTACAAC	840
1672	TGTTGACAATGCCAGTGACC	1653
966	GTTCGCAGAGAGCAACAAGG	947
912	TCCACCTGGCTTCAGCACTC	893
1497	TGCTCCAGATTGTATATCTTCTAGTTGT	1470
1086	TGGCACTTGACTTCGACTCG	1067
1093	TTGACTGAGACGAGGAAGTGACT	1071
1122	AGTCTGGCTACTAGGTCGAATACTG	1098
915	TGGTAGAAGATGTGATAACAACGC	892
1047	TGATTCCATTGTTCCAGTTGAC	1026

1681	TCGCATCAATCATTGTCGTTT	1661
137	ATGAATACAACCGTCGTGGCA	117
227	TGATTCCATTGTTCCAGTTGAC	206
133	TCTCTCATCGCCAGTGTCCA	114
152	CACACACGTACGCTATGAAGCC	131
125	AATAGCTGACCGCCACAGTG	106
132	CAGTGTATCTAGTTGTCCGATCAGTC	107
1802	TTGCCATTCAAGTGTATGCCTT	1782
150	TTGAAGGAATGCATAGGATTGCTC	127
191	GTGACGGAAGTGAATGGAACA	171
370	CGCAGTTGAGGCAGTTGAAG	351
387	CATGGCGGTCTATTCCGTAGT	367
671	TTCCTTACACTTCCTCGGCTT	651
517	GCCATCTGCCTTCAACACAT	498
142	TTCTTCGTTCTCTCTATATGGAAGTGG	116
143	GCGGTGTTCTTCCTGGCTCT	124
1057	AATTCCACCTCCAGCAACTG	1038
481	CGGCATTCTTCACTCATTACG	461
613	CTGCGTGGATGATGATGTGG	594
195	TTGCTCATCCGTGGCGTAGT	176
149	TTATATCCGCCAATCAATAGTGTG	126
178	CTCCAATAGTGGCCGTTGTG	159
843	GTCACACTGGCGGCACACTC	824
843	GTCACACTGGCGGCACACTC	824
1597	TACGATGGCGGCTAAGAAGA	1578
108	CTCCGGAACCTCGAACATTG	89
217	TGGAGGTCATTCCGATTACTG	197
114	GCCATTGTTCTCCTCCATACTGA	92
1948	TGGATTGTTGTGGCATAACCG	1929
839	TGCTGTAGTAGTCATCGGAGACG	817
300	CAGAAGTTGAAGCCTCGGAA	281
175	GATGAGGATGGTGGCGGTGT	156
574	GTGCAAGAAGATCGAGTTGAGCT	552
854	GAGAACTATACCGTGAGCTTGAGAC	830
772	CCACGTGGAACAATCATAGACTT	750
195	CACTCGTCTCACATCGTTTCG	176
222	GCTACTGCCTGCTGTGAAGACG	201
1640	CGTGAATTGTCAGACGAGTTACAC	1617
172	CGACGCATGTTGGAGGAGTT	153
98	GGTGTGAGAACTCGTTGTGG	78
198	GAGTATCGAGCCAATTAGCGTT	177
151	CGACGCATGTTGGAGGAGTT	132
421	GGTGTGAGAACTCGTTGTGG	401
198	TGGCAACTCCAGCTTCTCTG	179

98	GGTGTTGAGAACTCGTTGTGG	78
119	TCCTCCTCCGATAACGACGA	100
336	ACGAGAGTTGGCGACGAATG	317
1093	TCCTCCACGACCAATAACCAA	1073
2131	TCTGCTCGCTGATAATCCGTT	2111
506	AGCATCAACTGTGGCATTGAG	486
2749	TGTATGATTCCGAAGCTGGTGA	2728
2290	TGTATGATTCCGAAGCTGGTGA	2269
2131	TCTGCTCGCTGATAATCCGTT	2111
2520	CAATCTAACAAACAGTACCGTAGTAGCAA	2493
197	GTAGAGACGCTGAGAAGCATCTG	175
407	GTAGAGACGCTGAGAAGCATCTG	385
557	TGTCCTGGTTCACCTGGTTCT	537
296	GCTCATATCGTGGTGGAGGA	277
151	GCTCATATCGTGGTGGAGGA	132
424	CTGGTGCTTCAAGTTCTGGAA	404
1670	GGAGTGTTGGAGGCGTGATAG	1650
1466	GGAGTGTTGGAGGCGTGATAG	1446
163	GAGCATCCTCAAGCCGATTG	144
1970	GATGATGATGATGAACTGTGATGGA	1946
463	GCGGAGATTCAAGCAAGATTG	443
2102	GATGATGATGATGAACTGTGATGGA	2078
1035	TCGGCGGACTGATAGAACTG	1016
1092	TCGGCGGACTGATAGAACTG	1073
178	CGGAATCTGTATCATATTGTTCTTCA	153
235	CGGAATCTGTATCATATTGTTCTTCA	210
991	TTGATATAGAGTTCAGAGTTCAGGTT	964
1250	CGATATTCCAGCAATACAACATGA	1227
311	TCTGATGTTCTGAATAGTATCCAAT	286
795	CACTGCTGAACGATAGTCACGA	774
272	GCAGGACATGTGAATTGGCT	253
613	TGAGTGACTTGAACACCGCTT	593
966	AGAGACAGTTGCTGGAGTCACCTT	943
2557	CAAGTCGCTGACAATCTCTGC	2537
2671	CAAGTCGCTGACAATCTCTGC	2651
241	ACAATTCATCGTCCATTCCG	222
526	TTAGTGTTCCGATTAGTGGCTCA	504
180	TCGCTTGCCGAAGTGAAGTG	161
430	AGACGAAGAGAATTGTGAATGTGA	407
430	AGACGAAGAGAATTGTGAATGTGA	407
430	AGACGAAGAGAATTGTGAATGTGA	407
783	GAATGTCCTGCTCGGTTGGC	764
657	GAATGTCCTGCTCGGTTGGC	638
255	CCATGTTGCCATGAATCTGTG	235

1833 TGTTGGAAGGTTGTGGACTACTG	1811
1450 TGTTGGAAGGTTGTGGACTACTG	1428
116 AAGTAGCGAACTCCAAGGCA	97
369 GCCAGGCTCACTGCTACAGC	350
1346 GCTTCTTGTGATTGACGCTTC	1326
1463 GCCGCAATGTCTTCCTCTTC	1444
696 CCGATGGAGGCTGAGTTGAC	677
722 CCGATGGAGGCTGAGTTGAC	703
696 CCGATGGAGGCTGAGTTGAC	677
226 AAGTCCAGCGGTAAGAACAATC	205
248 AAGTCCAGCGGTAAGAACAATC	227
298 ACGAGACGGAGGACGACGAG	279
2583 ACGAATAATGGATGATGATGAATG	2560
692 ACGAATAATGGATGATGATGAATG	669
627 ACGAATAATGGATGATGATGAATG	604
2009 AGAGCCGAGGTGAAGCTGAT	1990
2009 AGAGCCGAGGTGAAGCTGAT	1990
248 TCCGTAGCCTCTTCATAATCCTT	226
595 GCCTGCTGTCGCCATAACTC	576
1668 ACGCTTCTTGTCTCTGCTGCTC	1647
1662 ACGCTTCTTGTCTCTGCTGCTC	1641
1668 ACGCTTCTTGTCTCTGCTGCTC	1647
305 GCTCCTTCGCCTTCTTCTGA	286
553 CGGAGCTTCGTCTTCTTCTTC	533
2027 CGGCTTCCTTCACCTCCTTC	2008
1715 CAGAGCAGGTGAAGCAGGTG	1696
303 CGGTTACACGAGAATACTATTACAGG	278
473 CTTGGCAACAACATCCTGGA	454
593 CTTGGCAACAACATCCTGGA	574
135 CCTTCGTACTTCTCAACAGCCT	114
199 CCTTCGTACTTCTCAACAGCCT	178
324 CCTTCGTACTTCTCAACAGCCT	303
252 AGAGAGCAGCCAGACCACAT	233
133 AGAGAGCAGCCAGACCACAT	114
1180 CACACGTTCTACCAATGCGA	1161
1243 CACACGTTCTACCAATGCGA	1224
202 GCGTGAATCCACATTCCATT	183
122 TCTACTCCTGAATCTTGACCGTGA	99
890 CGGATTGTTCTTACGGTAGGTG	869
198 GCTTATCGCCAACTTCAATATCTAC	174
1020 TCTGTTGACCAGGAGAATGATTC	998
382 CGGCGTAGACCTGGAACACTT	362
709 ACGTCTGCCGAGACATGGAT	690
3723 CTTCCGAGGTTACAGAGTGG	3704

709	ACGTCTGCCGAGACATGGAT	690
114	GGAAGGAGATTCGGAGTGATG	94
157	TGTTAATCAGAATACACAATACGGATAG	130
338	TCAGTGTTAGCCAGTGTTGGAGAA	315
117	TGTTCTTGTTGAGCGTCTTGG	97
1356	TGCCGTCTTCTATATTCCACTTGA	1333
168	TGAAGATGACCTAATGAACGAAGA	145
884	CTAGAGCCGAGGCGACTAGG	865
703	AGATGTAGAATGTGAAGATGAGGAAGT	677
1118	ATGAGCACGAGCCAGATGTC	1099
278	TCTGACATCTCCACGAGCACT	258
207	CGACAACAGAATCACCTCAATG	186
361	GTGGTCGTCGTTGTGCTGGT	342
684	ATGATCTTGCTCTGATGCTTCA	663
641	CAGAGGCAATCAGTGTCGTAAGTC	619
609	ATGATCTTGCTCTGATGCTTCA	588
1091	ATGATCTTGCTCTGATGCTTCA	1070
566	ATGATCTTGCTCTGATGCTTCA	545
641	CAGAGGCAATCAGTGTCGTAAGTC	619
188	GGTGTGGTGGAAGCGGAGTT	169
299	GGTGTGGTGGAAGCGGAGTT	280
592	GGTGTGGTGGAAGCGGAGTT	573
299	GGTGTGGTGGAAGCGGAGTT	280
592	GGTGTGGTGGAAGCGGAGTT	573
243	GGTGTGGTGGAAGCGGAGTT	224
274	TGCGAACCGAATCAACGAAT	255
160	TGAAGTGGTCTGTGTAGAGAAGTGG	136
163	CGAATGTAACAGTCCGCCTT	144
1301	AGATTGAGAGCGAATTGAGCAC	1280
1292	AGATTGAGAGCGAATTGAGCAC	1271
1301	AGATTGAGAGCGAATTGAGCAC	1280
1292	AGATTGAGAGCGAATTGAGCAC	1271
1339	GTTGCCACCACCATCCGAAT	1320
1282	GTTGCCACCACCATCCGAAT	1263
1282	GTTGCCACCACCATCCGAAT	1263
117	GATTCACGGCCAACAGACAC	98
774	GTTGTCGGCGTACTTGATGC	755
522	GTTGTCGGCGTACTTGATGC	503
432	CCGATCAGAAGAAGTGTTACTACG	409
346	GAAGAAGGCGAACAGGTAGAGA	325
664	AGTTGAAGAGCCACGATTGC	645
236	TGGTTCATCGTAAGTGTGGCA	216
694	TTGCCACGTCATCGATTCCA	675
463	TTGCCACGTCATCGATTCCA	444

1979	TCTCTTGCCGAGCAGGTTCT	1960
1833	TCTCTTGCCGAGCAGGTTCT	1814
385	CGTCAAGTAGGATTGTCCGACT	364
154	CCGAACCAAGAACTACGCAT	135
302	GCGTATCGGCTGGTTAGTGA	283
1631	AGTCGGCGGAATGAAGAGTT	1612
1454	AGTCGGCGGAATGAAGAGTT	1435
1439	AGTCGGCGGAATGAAGAGTT	1420
658	CATCACAATCCACTTCATTCATCA	635
481	CATCACAATCCACTTCATTCATCA	458
406	CCGCAATCTCTCTCAATGGA	387
126	CAATTCCGCTCCTTCAGAT	107
265	TGTTCTCTCCATCGGCGTTG	246
347	TGTCTTCTTCAATTCGGTGTTG	326
346	TGATGTGGCTTGGAGTTGGT	327
242	CTTCGTGTCTTGGTAGCATCC	222
242	CTTCGTGTCTTGGTAGCATCC	222
242	CTTCGTGTCTTGGTAGCATCC	222
356	TGGACACCATCGCAATATCAG	336
832	ACCTTCTGATCGTAATTCAACCTT	809
186	TGCGTCTAATGTCACTGCTCGT	165
186	TGCGTCTAATGTCACTGCTCGT	165
186	TGCGTCTAATGTCACTGCTCGT	165
186	GCGTTCTCGCTGTTGCATGT	167
174	TGACACGAAGAACAGGTGCTC	154
507	CACATTCCACCAGTGCTTGAC	486
1014	ACCGTCTCGCCTTCACTTACAG	993
336	AGCCAAGTGTGCCAATTAGC	317
910	AGCGGCTAGTTGTATGAAGATGA	888
1006	AGCGGCTAGTTGTATGAAGATGA	984
398	TGTAGCGGAGCAGTCAGAGTT	378
398	TGTAGCGGAGCAGTCAGAGTT	378
946	TTGAGGAACGGCTTGTGACA	927
264	CGATGAGATGGTTATTGAAGTGC	242
165	TGGTGTGTGTTGGAGATGCG	146
823	CGAGGAGAATGGTGAGGTAGAG	802
827	ACGTTGAGAAGAAGAGTGATGTAGATC	801
1181	ACTCGCCGCTCGTATATTCC	1162
968	TGAACTAGTTGTTCTGTGACGTTCT	945
921	CAATTCCAGCAGCTCTTCATGT	900
506	GTTGTCTGATAGGTGATTCGCA	485
1281	AGGATGAGAGCACTCCACATG	1261
150	GGCCGACAATTCGGTCTTGA	131
338	ATTAGAGCGGACGTGGATGA	319

271	TCCATCCACACATCGTCTCG	252
271	TCCATCCACACATCGTCTCG	252
1031	AAGTGACAACGCAACAGCAA	1012
1118	GGCAGGAACATTGGACGAGA	1099
1002	GGCAGGAACATTGGACGAGA	983
1193	GGCAGGAACATTGGACGAGA	1174
1058	GGCAGGAACATTGGACGAGA	1039
206	ATCCAACGGCTGTCGGTGTA	187
191	GTCCACGCTCTCCGCAAGTC	172
288	GTCCACGCTCTCCGCAAGTC	269
940	AATGGTCGGCACACTGGTCA	921
312	CGAAGGATACCAGCGTTGTTGA	291
5393	TGCTCAATTCTGCCGAGTTC	5374
877	GGCTAGATACTGAAGTGTCTGTTGAG	852
1221	CCACTGACAAGTTGTTGAGTAAGTTG	1196
188	CCTGACATCAGAGACACGATACATG	164
260	CGTGGTTGCTCGTCAAGTGT	241
361	AAGAGCAACTTGTGCGCATC	342
1420	TTGCTCACAGTCACACTTGGA	1400
382	GGTTGCCATGCACTTCAATG	363
382	GGTTGCCATGCACTTCAATG	363
791	CAGTGTGCAGGATAAGGAATCG	770
2287	GCATAGAGATTCTAGAGCAGGTT	2264
861	TTAGGCTTGGTGATGATGGTG	841
628	TTAGGCTTGGTGATGATGGTG	608
148	GATAGACCATCTCTGGTTCGTAGC	125
148	GATAGACCATCTCTGGTTCGTAGC	125
811	GGTAATCCACGATCTCCTCCAC	790
881	GGTAATCCACGATCTCCTCCAC	860
687	GCACAGTGAGCAGTGATTGG	668
1069	GGTGCTCTACGAGTTCGGAA	1050
2002	CGCCAGACTCTTCAGATTGTTG	1981
1469	GCATACTTATACATGGAATCTACCGTAT	1442
1469	GCATACTTATACATGGAATCTACCGTAT	1442
1475	GCATACTTATACATGGAATCTACCGTAT	1448
1475	GCATACTTATACATGGAATCTACCGTAT	1448
1475	GCATACTTATACATGGAATCTACCGTAT	1448
1475	GCATACTTATACATGGAATCTACCGTAT	1448
1469	GCATACTTATACATGGAATCTACCGTAT	1442
1469	GCATACTTATACATGGAATCTACCGTAT	1442
132	TTCCAGATTCTCGTCGGTGT	113
218	TGGATAGTTGTGATGAATCTGTGTC	194
276	GGTATGCCACATCCAATGCT	257
155	GCGTCTCTCACTGCTCCACA	136

233	GGTGGTGGCATTCTCCGTA	214
141	TCCACCGAACCACCATAGACA	121
1061	TTGCTCGTAGTCGTAATCTTCTTCAG	1036
795	TTGTCTTCTCGCACACGCTT	776
750	TTGTCTTCTCGCACACGCTT	731
181	CCATACCGACCATCACACCTT	161
184	CATACCGACCATCACACCTTG	164
178	CCATACCGACCATCACACCTT	158
157	CATACCGACCATCACACCTTG	137
214	CATACCGACCATCACACCTTG	194
1098	AATCTCTCGTGGCTTGGCTT	1079
1112	AATCTCTCGTGGCTTGGCTT	1093
1026	AATCTCTCGTGGCTTGGCTT	1007
310	GTGCTGCTGATCGGAGACGA	291
1232	TGAGCCAATACTGAGCGGAT	1213
143	GCTCGTGATCGTACTTCTTGTC	121
127	GCTCGTGATCGTACTTCTTGTC	105
762	ACTTCGTAGTATGGTTGTTAATCCG	738
212	CGGAGAAGTAAGCGTATTGATAGGTA	187
417	GCTCATCTGGAGGCTTGTCG	398
417	GCTCATCTGGAGGCTTGTCG	398
1149	AATGTACCGACGCCAATAGC	1130
1158	AATGTACCGACGCCAATAGC	1139
159	CCGACTCTATCGATGCAACG	140
1435	GAGGAACTAATATGTTCAGAAGTGGA	1410
293	CAAGGTTGAATGTGAGATGGAA	272
575	AGAATGTCCTCCAGGTTGGTGAT	553
253	GTGATTGAAGCATGATTCTGTTGAC	229
509	CGGAAGGTTCTGGCTCCTCT	490
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480	CGAAGCAGCATCCATTGAAC	461
220	CGGAAGTGCCTAACTCTCGT	201
430	GCCACCAGTTGAGAGCATTG	411
1910	CGAATTGTGAAGTTGTTTCAGGTAT	1887
1906	CGAATTGTGAAGTTGTTTCAGGTAT	1883
944	CGAATTGTGAAGTTGTTTCAGGTAT	921
115	CCTCTCGTGATGGACTATCGTAG	93
267	TCCAATAATATGACAGGAAGCAATG	242
158	CCAATAATATGACAGGAAGCAATG	134
123	TCCAATAATATGACAGGAAGCAATG	98
255	TCCAATAATATGACAGGAAGCAATG	230
247	TCCAATAATATGACAGGAAGCAATG	222
237	TCCAATAATATGACAGGAAGCAATG	212
725	TTCAGCAATACGGACCATCA	706

725 TTCAGCAATACGGACCATCA	706
725 TTCAGCAATACGGACCATCA	706
725 TTCAGCAATACGGACCATCA	706
694 GTTCTGAGCGTTGTCCTCCA	675
662 GTTCTGAGCGTTGTCCTCCA	643
327 GCGGTTTCGTTCTCCTGTCAC	308
212 CTGTCATCACTGGAACCTTGTCG	191
259 CCATGACATCATTGGATGGA	240
146 CCATGACATCATTGGATGGA	127
211 GTTCATCAATTACAACCGACGA	190
283 CAACTGGATGAGCACCAAGGT	263
237 CAACTGGATGAGCACCAAGGT	217
420 TTCCAATCCTTCCATAACACG	400
146 GAATGTTCCATCTCCAAGCCTT	125
146 GAATGTTCCATCTCCAAGCCTT	125
404 TCGAGCAAGATAGAAGTCGGTT	383
841 CATCATCTGACTGGCTAGAATAACC	817
931 CATCATCTGACTGGCTAGAATAACC	907
207 AGTATTCGGTGATGCTTGGATAC	185
188 GTACTCGGTTGGACTTGGAAC	167
475 CCAGGTCAACTTCAGATCCG	456
385 AGTAACCGCCGTGAGGAACA	366
239 TCACTGATAGAATTGTTGCAGTCAT	215
121 CGCCGAGAGTTGTAGCCTTC	102
180 CGCCGAGAGTTGTAGCCTTC	161
361 ATGTTGTAGAATTGTGGAGAGAGACG	336
361 ATGTTGTAGAATTGTGGAGAGAGACG	336
1289 CAGGAGTCGCAGGATGGTAT	1270
882 GGTGAATGAGTTGAGGTTGGC	862
876 GGTGAATGAGTTGAGGTTGGC	856
722 GGTGAATGAGTTGAGGTTGGC	702
832 GGTGAATGAGTTGAGGTTGGC	812
828 GGTGAATGAGTTGAGGTTGGC	808
825 GGTGAATGAGTTGAGGTTGGC	805
413 CGAGGATTGGCTTGTGTCAT	394
495 GAAGCCGCAGAAGTTGTTGT	476
169 CTCTGGTGAGACGAATGGCA	150
190 TCTGTATCCGAATAATAATGGTTGAC	165
135 CGTGCCAAGGTGAGAAGGAT	116
1585 AACTGGATGCTAACGATTCAAGA	1563
1653 AACTGGATGCTAACGATTCAAGA	1631
472 CGGTGAGAAGATCGGTACAGG	452
560 TTGGAGTGGATGTATTGAGTGGCT	537
452 TTGGAGTGGATGTATTGAGTGGCT	429

165	TGCCACCTTCGTAATCTGTCT	145
907	GCTGAGAACTACCGACCGACT	887
205	CAGCCTTCACCACTTGTTCTG	186
149	CACCTCTCTTCCTTCGCTTG	130
817	TCAGCCAACCTTCCAGATTC	798
188	TGTTGGTTGAGGACAGAATGC	168
200	TGTTGGTTGAGGACAGAATGC	180
538	CGTCAGTTGAGCGAGTTCTTC	518
80	GCCAGATGTATTGAAGACTTGAGA	57
347	CAATCCTGTGGTTGTGTTGAACA	325
224	GTTGGAAGGAAGGCTGATGA	205
215	GTTGGAAGGAAGGCTGATGA	196
587	GGAAGGAACCAGGTGACGAT	568
655	TCCAGAAGATCCATCGTTCC	636
239	TAGGTCATTGCGGAGGTGTG	220
716	TTGCTCACTCAATGGAAGGC	697
201	CCGCTGTGGTATCCAATGTC	182
201	CCGCTGTGGTATCCAATGTC	182
619	AAGTGAAGCAGTGACAATGAAGAC	596
431	AAGTGAAGCAGTGACAATGAAGAC	408
486	AAGTGAAGCAGTGACAATGAAGAC	463
625	TGTCTTCGTATGCAGGTTCTG	605
222	GATTCTGATATTGATGTAGTCGTGGA	197
507	CAGTAAGTCTTCCTCTCGTCCAA	485
315	ATCTATGCTTCCGAATGCCA	296
2093	TCCACGCCGAGTAATCATT	2074
735	GCTTGATTGAACGCATTGGC	716
1066	CACTTGGAGCAGCGTTGAGG	1047
1066	CACTTGGAGCAGCGTTGAGG	1047
1051	CACTTGGAGCAGCGTTGAGG	1032
1051	CACTTGGAGCAGCGTTGAGG	1032
1053	CAACGCAACTTCTCCATCCT	1034
1160	CAACGCAACTTCTCCATCCT	1141
1005	CAACGCAACTTCTCCATCCT	986
781	CTCTGCTTCTCTGTTGAACGGA	760
190	ATGACTGCCTCGTTCTGCGT	171
453	ACGGAACAGGAGCATCACGA	434
1162	GGCGACACTTACATCACCATCA	1141
1071	TTCTAGTCCATCCATAACATCGG	1049
693	AGTTGAGAACAGACGATTGGCT	672
339	GGTAGCCTTGGTACTGTTGATTG	317
339	GGTAGCCTTGGTACTGTTGATTG	317
281	GGTAGCCTTGGTACTGTTGATTG	259
2204	CGAGAACTTCACCAGTAACGG	2184

1765	CGAGAACTTCACCGTAACGG	1745
635	AAGATCAGCGACGGCGACTC	616
819	AAGATCAGCGACGGCGACTC	800
635	AAGATCAGCGACGGCGACTC	616
819	AAGATCAGCGACGGCGACTC	800
694	AAGATCAGCGACGGCGACTC	675
629	GGCGACTCCACCTTCCTTCT	610
813	GGCGACTCCACCTTCCTTCT	794
2879	CAATCACTACATTAGCACCAAGAGA	2855
250	CGATGCAACGTGTCTCCACA	231
119	AATTGCCAATACGACAAGTAACG	97
310	TGTTGTGTCATCACTATTGCGATG	287
134	TGATCCAACTCTTCACGAACAGA	112
787	AGCAATGTTCAATCGTTCCG	768
378	CGACACAGTTCATAAACTTCCTAA	354
148	GCGACCTCCGACTGCTTACC	129
729	AGGTTAAGACAGGTAGGTGCGA	708
307	CAGATGTCGTTGAGTTCTTGCTC	285
307	CAGATGTCGTTGAGTTCTTGCTC	285
244	CAGATGTCGTTGAGTTCTTGCTC	222
244	CAGATGTCGTTGAGTTCTTGCTC	222
973	GTTCTTGACGAGTCGTTG	954
107	GCCTCGGTGGTTATAGCCTGT	87
165	TTGGTGAACCAATGTTATAGACGTT	140
182	GCCTCGGTGGTTATAGCCTGT	162
1650	CCAGAGATTCGTGTTGATTAGAGG	1627
1668	CCAGAGATTCGTGTTGATTAGAGG	1645
443	GAGACCACCGACTCGTTGCC	424
167	GAATCATTGGCTTGTTAATCGC	146
2161	CATTCCACCACTTCCACGAT	2142
263	TCCATTCGGAGATGTGCATT	244
2161	CATTCCACCACTTCCACGAT	2142
616	ATTGTTAGCATGCCGTGGCT	597
967	TTGTGGCTCTGCGAACTCTT	948
142	CATTGACTGGAGAGTGCTGAGA	121
1199	AAGGTGAGATCCGAGCCACT	1180
273	AGCATTGTTCTCCGTCATCG	254
311	TGAACACAATTCGGAGCTCTT	291
670	CATCCTTCTGCTCAAGTTCTCTC	648
836	ACGCCTTGCTCTCCAGTAGCC	817
608	AAGACGGAGCACGGAGCAAT	589
322	TGGCGGAGGAGGAGTTCTTC	303
384	CCTCTGATGAACTGACAAGCGA	363
144	TCTATCCACACAACATGGTGTTT	122

121	GGTTGGACACTTGGCACTTC	102
412	CCTTGTAGCCATGTTCTCTGG	392
118	CAGGAGGCCTAGAAGGAAGCT	98
491	GGAGTGACAACGCCAGCATC	472
1262	CGAGAGGCACAGCAGGAACT	1243
95	AATGGTTGCTGCTCTTCTTCA	75
597	TGTTGACGAATATAATGCAGATACTGG	571
519	GATAGCAGTAGTGTAGAAGGAAGAAGTG	492
695	TGTTGGTGGAAATGTAGTTGGC	675
298	TTGAGAGCCTGACGGAGATG	279
142	AGAATGCGAAGAAGGTAGAACG	121
1077	CTACCAAGTTCTTCGATGTAGACG	1054
417	CACGAACGACTCCAACCTCCA	398
371	GCAACCACCAGGAGAGTTCA	352
365	GAGGTGCAGAATCCGTTGGA	346
148	GAGGTGCAGAATCCGTTGGA	129
139	CGATGGTGTAAACAGATGAGTATGC	116
1082	GCGAGTTGGTGTGGATAGCG	1062
362	GTGGAGGAATTGACCGAATG	343
402	TGGTATATAAGTTGCATTTCGGTACA	378
510	TGGTATATAAGTTGCATTTCGGTACA	486
197	GGAATGGAGATGGAAGAAGTGTT	175
458	GCCTCAGTAAGTGGAGCACAC	438
675	TAGTGACGTGCATATCGTGAAGT	653
1463	CTCTGTCGTTCCGCTTCTGA	1444
1340	CTCTGTCGTTCCGCTTCTGA	1321
758	AATATCTCCACAGTCTATGTACTCCGT	732
769	AATATCTCCACAGTCTATGTACTCCGT	743
667	GCCATTGCCAGAAGAAGTCA	648
179	GCCAGACGGTATTAGCATCG	160
348	AATATCCGCACTTGTAGATCATCAC	324
1223	CGACTGGAAGTGC GTTGAGC	1204
149	TCCACGAGCCACAATCAAGT	130
267	TTCTCGTTCATCATCGTGGA	248
413	GAACAAGTCTCTCAGCATCACG	392
547	GAACAAGTCTCTCAGCATCACG	526
388	GAACAAGTCTCTCAGCATCACG	367
771	TTCTTCTTCATCGTCACCTTCA	750
149	GGAATAGCGACGATGGCAGT	130
800	TGGTTGTGATGCTTGTGGCT	781
852	TGGTTGTGATGCTTGTGGCT	833
434	TGGTTGTGATGCTTGTGGCT	415
227	TGGTTGTGATGCTTGTGGCT	208
1666	CGTCCATTACTCTCGGTTGC	1646

207 GCAGATGGTTCAGTGATTGGT	187
152 TGACGGAGACAGAAGAGAAGAGAA	129
180 GCAGGTGGTGGTGGTGGAAAT	161
658 AAGTGAATAGAACCAACCATACAAGTGAT	631
1402 CCGTGAACTTCAATAGCATACG	1381
1400 CCGTGAACTTCAATAGCATACG	1379
1006 GCTTGCCACACATAACACCA	987
215 GACAATCGGATTGCTCGCAT	196
188 GGTGGTCCAGGAAGGTACACT	168
188 GGTGGTCCAGGAAGGTACACT	168
587 AGTTGCTTCTGGCTTCGAGA	568
452 GCGTCTGCTTCACACCGATT	433
197 GTCCTGGTGGTCCACGGTAT	178
343 TTGCTGATGCGGTAAGTAGGT	323
876 GGATACAACAAGTATGGTGGAT	854
1279 TAATAACGGCGACGGAGAGC	1260
894 GATAATGCGTGTGGCTGCTG	875
206 ATCTCCAGTGGCTCGGCATC	187
427 ATCTCCAGTGGCTCGGCATC	408
981 TTGACAATGTGTGAGAGTGGATG	959
897 AACTCCGAGGCGACTAGACACTT	875
2321 CCAGTGCCGTAGGAATAGTCA	2301
2343 TTCTTGTTAGCATCTCCATCAGC	2321
2326 TTCTTGTTAGCATCTCCATCAGC	2304
1654 ATGCGAGAAGCGGAACCACT	1635
1660 ATGCGAGAAGCGGAACCACT	1641
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388 TGATACCATGCCGAGTAGGATT	367
251 CCGTCCACAACAATACATAAGAAG	228
142 GTGTCTCGCGGCTGTTCAAG	123
174 TTCGTCTTGAGACCGTGCTC	155
322 GGTATCACTGTCGTAGTTGAAGAATGG	296
458 GGTATCACTGTCGTAGTTGAAGAATGG	432
109 TGGTGGAGAGGTAGTGAGTGTTT	87
310 GATGACGAACCAAGACGATGAG	290
96 TGGTGGAGAGGTAGTGAGTGTTT	74
333 GATGACGAACCAAGACGATGAG	313
1039 TTCGTAATCTGTTCTGTTGGTT	1015
741 GGTCCAAGGCGAGTCATTC	722
1258 GGTGTTGGAGACTGTGTGGATT	1237
167 AGAGAGCACAAGTGAGCTAGACGAA	143
1169 GGTGCTGCTGTTGTTGCTGA	1150
1169 GGTGCTGCTGTTGTTGCTGA	1150
1169 GGTGCTGCTGTTGTTGCTGA	1150

1559	CGTCGTGAACTCTGTCTCTTGGT	1537
436	TGCTGCTAGTTGCTGGCTAA	417
172	TGTAGGAGCAGGACTGAGTGG	152
2758	TGTCATCTTCTTGATCTTCATCGT	2735
2708	CCAACTGACTCGGTGGTACG	2689
108	CCGTTGTCTTCTACTAGGATAGTGAATC	81
2433	GTCTGATGCTGGAGGTGGAGTT	2412
2377	GTCTGATGCTGGAGGTGGAGTT	2356
1781	ACCAACACCGAAGAGGCATC	1762
137	ACCAACACCGAAGAGGCATC	118
326	GCAAGATAGGCGGTTACATTAGC	304
585	ATGAAGCCTCAGCGACAATG	566
395	AAGGTGGCAAGAAGCAGGCT	376
381	TCACAGAGCAGCGAGCAGAT	362
539	ATCCTCTTCCTCTGGTCCGA	520
576	ATCCTCTTCCTCTGGTCCGA	557
134	CAGTTGGCAGTTGATGAGACG	114
475	CCGAGAGATGATAGTGGTGTGAT	453
1037	ATCCATTGACAAGTTCCGAAGAC	1015
176	TCAAGTGCTCCATCCAGACA	157
125	GAGTCAGATTGGAGGCAGAGG	105
3410	TTGAGCAACGATACAATCATGTC	3388
3341	TTGAGCAACGATACAATCATGTC	3319
3326	TTGAGCAACGATACAATCATGTC	3304
402	AACTCGCACAGGCATAAGGA	383
130	AGTTGTCCTGAACGGCTTGC	111
298	GGATGAGTTCGTGATTGCCA	279
164	GTTCGTAGCATCCGCATCAC	145
178	GAGAAGAAGAGAAGCAGAGTACGC	155
139	AGAACAACCGGATAATGTGTGGTT	116
744	TTGCTCCAAGATCCATTGTATG	723
758	TTGCTCCAAGATCCATTGTATG	737
205	ATAACCATCGGTCCATGCCT	186
996	GTGGTGGTGCCAGATCACTG	977
1580	TCATCATTGGTGGCATTGGAC	1560
1269	TCATCATTGGTGGCATTGGAC	1249
1580	TCATCATTGGTGGCATTGGAC	1560
1269	TCATCATTGGTGGCATTGGAC	1249
506	TCCTCAGATGCCTCAAGCCA	487
1448	TCCTCAGATGCCTCAAGCCA	1429
291	AAGATCAGAATCAGAACGACGAC	269
180	CCTTGACAGACCGTATTCCTCA	160
138	GACGATTGGTTGCTGCTCTG	119
630	ACCGTGGCAATATAACCTAGATGT	607

177	AGCAATATCCTTACCTCAAGCAA	155
858	AAGTGTAGATGTATAACCGTGTGCTAG	832
140	AATCTAGTACCAACCATAACCAGATCA	115
457	CCTCACGCTAAGACTGCCAT	438
193	CGACTCCTCCGACTAGTTCCACT	171
1673	ATGTAGATACTGCTGTTCAACGATG	1649
1382	ATGTAGATACTGCTGTTCAACGATG	1358
339	GGAGTAGCGTCTTGATTATGAGGA	316
339	GGAGTAGCGTCTTGATTATGAGGA	316
402	GGAGTAGCGTCTTGATTATGAGGA	379
2764	TGTCCAGGCAACGAGCGATA	2745
2764	TGTCCAGGCAACGAGCGATA	2745
501	TGCCAACAATCACCACAGTAAG	480
419	TGCCAACAATCACCACAGTAAG	398
133	TGGTCGTGGTTGATGGAGAT	114
220	CGTAGTAGTAAGGTCCGTTGTTGG	197
202	CGTAGTAGTAAGGTCCGTTGTTGG	179
158	CCTGATCCTACGTCGTCGTT	139
204	GCAGTGTATCTGGCAACTCTCC	183
243	GAATTGTGGAACAACACCGAA	223
994	CGTCGTCGTCGGATTGCTAA	975
606	TCACGATTAACCTCGGCTTCTTC	585
132	GCCTCATTCTCCATCCGACT	113
143	GATCACGTATCTGTTCTCTGATGAGC	118
1174	CCATGTCCTTCAGAGTCCAGA	1154
1270	CCATGTCCTTCAGAGTCCAGA	1250
439	ACTGTGCCAATGTATACCTTGTTGT	415
859	CACGGTCGCATCTGTCTTGG	840
734	CACGGTCGCATCTGTCTTGG	715
949	AAGCATGGAAGAATCAAGTTGC	928
151	ATGTTCTGCCTTCTGGTGGA	132
1041	TCTGGTTGTGCTGCTTGTTG	1022
310	TCCAACCTTTGCCACTGACC	291
983	ATCTGCCATTCGTTGTGCTT	964
252	CACGGAGCCTTGTGAGCATC	233
252	CACGGAGCCTTGTGAGCATC	233
252	CACGGAGCCTTGTGAGCATC	233
252	CACGGAGCCTTGTGAGCATC	233
252	TACGCCAGAATGATCGGTCT	233
577	TTGTGTAGATTGATGCGACTCG	556
168	GTTGGTGACTCGCATCGTTC	149
2371	GGAACGGACTGAACGAGTAGAC	2350
1837	GGACTGCTCACACTGTTTCATTG	1816
270	AATGCTGGCGGTCTTGTTC	251

835	GATTCTCAGCGTTGTCAGCA	816
191	AATAATGAGAGCAACAATAAGAACGA	166
407	TCTTCTGACTTCTCCGAATCCTT	385
728	TCATCAGATTGATTGACAGACAGA	705
384	GGATGGTTCTGGTTCGTTGA	365
427	CCTCTTCCGCTTGAATCTCA	408
321	CGTTGTTATGAAGTTGAATCGTTG	298
771	ATCACATTCCACAGGTTTCGC	752
760	GCTCATTCCACGCGTCGATA	741
697	TGGCGATGATTGATAAGATAAGG	675
213	GCATCCGTTACAAGAAGCCA	194
199	TCAGCAATCTCCAACCATCG	180
927	TGATTCCTGACGGTACTGAGC	907
710	AACATTCCATACAGATTGAATTAGTGTT	683
899	ACACGACCATCTTGAGTCTTAC	877
893	GCGTCACTACACATCCATACACC	871
893	GCGTCACTACACATCCATACACC	871
537	CGAGCTTCGACTAGGTGGTC	518
378	TGATTGGCTCTCCACGGATT	359
357	AATCTCACGAACCGCACTGT	338
678	CACGATGAATAAGCGAAGAGAAG	656
1416	TTCAAGCATGTCACACATATTTCG	1394
871	TTCAAGCATGTCACACATATTTCG	849
698	GCGAGGTAGTTCCAGGCACTT	678
250	TTATCTCTATGTGCCAAGTGTCCTT	226
345	AACAACCTCTTCTTCTCCTTCAACA	321
427	AACTTGTGGAAGCGTCGGTT	408
221	GGAAGTGGAGGTAGGTCGGATT	200
121	GGAAGAAGTGTTGCCTGTTGG	101
139	GGCTGAGAGTAGTGGAATAGGTGTC	115
148	AGAACGGAGAACACCAAGTAGGAA	126
169	TGACACACTCACACTCGTACACTGTATC	142
373	TTGCAGCTTGAGGATCAGC	354
144	GAAGTTCCATTGAGTTATGAGTTGTCG	118
619	AGGCGATAACGTAGGTCAGAAC	598
637	AGGCGATAACGTAGGTCAGAAC	616
589	AGGCGATAACGTAGGTCAGAAC	568
589	AGGCGATAACGTAGGTCAGAAC	568
104	TTGGCACGACGAAGAGACAT	85
579	AGACAGCTCCATCTGTGATACATG	556
223	TTGAAGACTCATCCACATAGATTTCG	199
1765	CATCATCAGTCCTATCGTTGTGG	1743
1047	CATCATCAGTCCTATCGTTGTGG	1025
480	CGTAAGGACATCAAGTCGTATTTCG	457

242	AATCGGCTTGA	223
179	CATCACACCTG	160
327	CATCACACCTG	308
634	CATCACACCTG	615
1321	TAAGAATTCCG	1302
541	GCAACGACTGG	520
172	GAGGCGAATCA	151
253	TCACCACACAG	233
160	ATATGTGCCG	141
655	CAGATGGACGG	636
126	CGATGTGGTTG	107
359	ATCCTTGTCCG	340
699	TCTGTTGCTTG	679
882	TGATGACTACAG	858
948	TGATGACTACAG	924
166	ATCCACTTCGAC	147
805	ACACGGCAGCG	786
834	ACACGGCAGCG	815
811	ACACGGCAGCG	792
840	ACACGGCAGCG	821
811	ACACGGCAGCG	792
122	CGAGGAGCCGCT	103
151	CGAGGAGCCGCT	132
703	ACACGGCAGCG	684
834	ACACGGCAGCG	815
1463	TTAGGATGGTCT	1444
111	CATTCCGTCTCCA	92
184	GTGCTGCTGGAG	165
160	TATCCACCGCAAC	141
1467	GTCAATGCTCTCG	1448
1478	GTCAATGCTCTCG	1459
1415	CCACTGTTGTCGCC	1396
1475	CCACTGTTGTCGCC	1456
444	GACGATGCTGTGTT	424
130	TCAGTGCCGACACT	110
170	TCCGTATTGTCTATA	145
164	AACATCGTCGGTG	145
2165	AGACCTCGCACC	2145
828	TGACTGAGAATGC	809
828	TGACTGAGAATGC	809
758	TGACTGAGAATGC	739
1116	GTTCTCCACCACG	1096
1347	CTGGAACGCTAGAC	1327
1467	CTGGAACGCTAGAC	1447

424	TGGTTGTGGTGGTAGTGGTG	405
424	TGGTTGTGGTGGTAGTGGTG	405
448	AGGTTGTTGAGCAGGTTGAAGG	427
314	ATTGTCGGCCGCTTCCTTCT	295
157	TCAGTGGCTTGTCTGGTCT	138
129	AACAGGACAGCTTGTGAACGC	109
174	CCGTGATGTTGTTAGCAGATTC	153
700	CTTGATTGCAGCCGCAATTC	681
191	TTGAGATCATAGAGTCGCTTCAGAG	167
615	GCGGTCGATAGAATCTTGTGA	595
223	GAAGTTGTCCGAATGGAGCAG	203
137	GAAGTTGTCCGAATGGAGCAG	117
203	TTCCGAGCAAGGTAGCACAA	184
1599	TCTCTTGACAGCCTGCTTCC	1580
144	CGTTCTCGCCTTCGTGTCAA	125
1638	ATCTCACTGAGTTCCGAGCAA	1618
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969	TTCTTCATTCTTGTGGTGGTCA	948
874	AGAAGAATCAGCGATGTGCCT	854
223	CCGATTGGCTTGTAACCTCTCTC	201
149	CCAATGTGACCATCTTCTCGT	129
333	AGATGATGTAGAGGCATTGGATG	311
308	TGCTGAGGCGGAATAACATAC	288
794	TGCGATACGACTGGTTGTTG	775
794	TGCGATACGACTGGTTGTTG	775
794	TGCGATACGACTGGTTGTTG	775
794	TGCGATACGACTGGTTGTTG	775
1279	GCAATGGAGTGGAATCAGAAGA	1258
127	TTGCTACTACTTGAGAATGACAACAAC	101
251	CCTTCTTCTTCTGTCTTCAAGTTGTCTA	224
121	TTGCGGTTCAACATGTGGAA	102
1182	CCTTCTTACCGGTACGACGA	1163
1577	ACGATGGATGACAGAATGCG	1558
1182	CCTTCTTACCGGTACGACGA	1163
1129	CCTTCTTACCGGTACGACGA	1110
1080	CCTTCTTACCGGTACGACGA	1061
1475	ACGATGGATGACAGAATGCG	1456
1080	CCTTCTTACCGGTACGACGA	1061
203	TCTCAATCTCTTCGGACTCGTT	182
217	TCTCAATCTCTTCGGACTCGTT	196
2032	CGGCAGTTGATAGTATCATCGTC	2010
326	TTAATATCTGCTTCACAGTGAGGTTC	301
528	GAAGTAGAAGATGGAGACCAAGTAACTC	501
186	TTCTCGTCGACTGTCAACAAGATG	163

140	GTGTACGCAGCCGAATTCAC	121
764	AAGTAGTCGTCAGTCCAATCAGC	742
1013	TTGGTAAGTGGTTCTCCGTGA	993
1796	GCATCACTTAGTACACGAGCCTT	1774
395	ATAATCCAGATGGAGATATGCCA	373
1240	CCGCATTGTTTCATAACGCTA	1221
638	CTTCAGAGTCATTTCGTTATCCAGTT	614
979	CAGGCGGAAGTGGAGTTGAC	960
166	TACAAGTCACATTCCGAGTACAGC	143
284	ATGTATTCAATGATTCTGGTGCT	261
994	TTGGTTGTACAGTGTGTGTCCA	973
569	TTAATGTGTCCTCCGGCAAG	550
142	TCAAGTCAACGCAACACTGTCC	121
1580	CGTATTCGTGATTGAAGAGAAGATG	1556
504	TTGGTTGTAGGAGTACGACAGAAC	481
936	AGCGTTGATTGTTGGAGCGT	917
958	TCCGCACTTCTTGTCTTATGG	938
1754	CACTGTATTCTGGAAGAGCATCC	1732
445	TTCAACACCAAGCGACCATA	426
414	CCAAGAGAAGGTGCAGATAGTGT	392
139	TTGAGTTGGTGACGATAATGGTC	117
501	CGGAAGAGCAGGCATTGAGC	482
302	CCTTGAGCAGACAGACGGAGT	282
286	GCCATCTTCCTCCATTCTGA	267
854	CGAATGTAGGAAGGTGCTAAGTCA	831
371	AATCCGAATCGTGTTGATCTGTA	349
363	GCGTTCTGAGTATGCTCTTGC	343
269	GACAATCCTTCGACTAAGCCAA	248
526	AGCAGGAGAAGTAAGCGAACC	506
134	TCCTTCTGACAATTCGTCACAA	113
284	CGATGAGCCTCGAGCTGCTT	265
1159	AACATGAGCGAGTGACATATCTTCTC	1134
1065	CAATCGCATCAAGTTGATAAGACT	1042
1074	CAATCGCATCAAGTTGATAAGACT	1051
1056	CAATCGCATCAAGTTGATAAGACT	1033
811	CGACAAGAACTATGACTCCACCTG	788
458	GGCTCAAGAAGTGCTCCATC	439
526	GAGCAGGTGGAACAGGAACA	507
706	CCGTGATCATACTCTTCGCAT	686
1168	TCCATAAGACCATTGTAACCAGCA	1145
670	CAGCCTTGACAGTTGGAACG	651
788	TGCGTTGCTACCTCTTCCTC	769
759	AATAACGCAAGGAAGAATGCA	739
995	TTGCGACTACGACGATTGGT	976

1095	CGATGCGACTACGACGGTTA	1076
386	CGTGAGACGTGTGGCATAGC	367
750	GGAAGCACGCACTGAATGGT	731
659	GAAGACTTGTTAGGACCACTGAGAA	635
708	GGATGATGCGTCCAGGTGTT	689
805	CCAGACTAATTGATGAGCACACA	783
1210	TTCCATCAACTTGCGGTAGTG	1190
1210	TTCCATCAACTTGCGGTAGTG	1190
2027	AGGAAGAAGAAGCCAGTTGATG	2006
861	TGGTAGCGAGAACTGTGAGCA	841
678	TATGGAGCGGCGACCGTAAG	659
241	TCCACGATTGTGTGCTCTTGC	221
584	TCACGCCTCACATCATCTCG	565
167	AAGTGCCGAGTGAGTGATGC	148
230	GAGTCAAGTAGAAGTGAGTGTGATGAAC	203
186	TCTACACACACACATAGAGTGAGCA	162
145	GATGAATGAAGGCTGAGACAAGG	123
613	TGTACGTTGCAATGCCAAGA	594
128	CATATCTGCGTCTCATCCTATTCTACA	102
345	TGTGTCTTCGTGACCGTCGT	326
345	TGTGTCTTCGTGACCGTCGT	326
552	TGTGTCTTCGTGACCGTCGT	533
385	TGTGTCTTCGTGACCGTCGT	366
126	AGGCGTGGTCTTCTCATTCC	107
181	CAGACGAATCAACAGCTCCACT	160
967	CCTCTCCTTCATTCTCATTCTCA	945
1141	CCTCTCCTTCATTCTCATTCTCA	1119
199	AGTAGAGATTCAGCCGTTCCG	179
1036	CCTCTCCTTCATTCTCATTCTCA	1014
347	AAGAACCAGAGATTGTAATAATGCAA	322
130	TCGGACTCTCGGATTATTGG	111
988	TTATACTGAGCTATCATCAGACCAAGC	962
469	ATTGTCTTGTTGAGATGAGCCA	448
211	CATCAACAGGCATCGGTAGAATC	189
190	TCAGATCGCTTCCAAGTTGTAGT	168
570	GGATGGTTGAGCACTTGGAA	551
260	TTGAGACTTCAGTGTTGTTGTGG	238
904	AGTCATCTGTAAGAGCACACAGTACC	879
682	GTGTGCCATGAACCTCTATGAAGA	659
269	CCTACTCTCATAAGGCAGATCGTC	246
162	GTCGATGCACTGACGGCTTC	143
2391	TGAGGATGATGTCGGATGCTTC	2370
342	TGCTGTCACAATTACCAGTAGAGAA	318
145	CGCAGATGGTGACTCATTCG	126

1206 GTTGTACCAACCAAGCGAGAA	1186
311 ATTGATTGGATCTTCGTCGGT	291
1017 TTCACCAACACATACCATACCAA	995
152 AATACATAATCGGTGGAAGAGCA	130
296 TGTCTTCACTGCTTGTGCTT	276
296 TGTCTTCACTGCTTGTGCTT	276
429 TTGGCGGTATCTGCGAGGT	410
1395 GCCAACATTCAACATCGTCGT	1375
564 AACTGACGGTAGAGACTGACATCA	541
1074 CGTGGAAGAAGTCGTTGAGC	1055
432 GTCCGCTTCCGTTATTCCAT	413
404 TCGTGCGGAGACAGCGTATC	385
432 GTCCGCTTCCGTTATTCCAT	413
389 CCTATTGATGTTGCTGTTGCTG	368
1013 CTTCAGCAAGGCGATCAACT	994
971 CTTCAGCAAGGCGATCAACT	952
357 TGTCTCCTCCGATGTATTCTCAA	334
357 TGTCTCCTCCGATGTATTCTCAA	334
280 TTACAGCCGTTGGATTGTGC	261
132 CCAAGCAGTGGTCTTCAAGG	113
166 CGCATTCTTCTCCTCGGTCTT	146
1366 CGGCGTTAGATAAGCAGTGTG	1346
2001 TGGTGGATGACGAGAGAATGG	1981
304 AAGAAGCCGAGGAGCAGTGG	285
696 GAACATTCCGTCAAGAGTCAGAA	674
708 TACGGTAGCGTCGTCGGATT	689
723 TTGAAGCTCGGATTCTTGAA	703
621 TTGAAGCTCGGATTCTTGAA	601
597 TTGAAGCTCGGATTCTTGAA	577
706 TTGAAGCTCGGATTCTTGAA	686
198 AGTAGCTGGCGTATGTCATGG	178
350 GATGAGAGCGGCGGTAGATC	331
590 GCAGATTCCGTAGTAAGTGTAGTAGATG	563
331 CACTGTAAGACAGGACAGCCATC	309
320 TTGAGGATTCCATAGGTTCCAG	299
822 TGCATACATAGTGTAGGCCACAGG	799
112 ATCCGCTCATGGATGGAGTT	93
747 TCCAGTGTAGATTGAACCGTAGG	725
290 GCAGCACCAGCATTGTTAC	271
98 CAGTGGCTCTACCTATTCCGTT	77
532 CTGCACACCTGGTGAATTGATC	511
185 GAGTGTTGAGACATTGAATTGC	163
1516 TCTCTTCAGCACCTTCCACTG	1496
201 GAATCCAGGTTATAGCCGACAC	180

1572	TGGAGAGTGGAGTGGATGGT	1553
423	CGCTTGTGATGATGATGACG	404
1391	TGGAGAGTGGAGTGGATGGT	1372
361	GAGAGTGTGGAGTCGCAGGT	342
1467	TGAACCATCCACTGGATCAGT	1447
1001	TGACGGTCATCGCGTCTCTT	982
207	TTCCTGGCTGTCATCAATCG	188
357	CAAGATATGTGCGAACATTCTCC	335
748	GATCCAGTTGGTGTGAAGGA	728
191	GATTGAGTTGAGAGCATTGGTTGA	168
146	GATTGAGTTGAGAGCATTGGTTGA	123
118	TGACCTGCTGTGTCAACGAA	99
204	GTGCGATGGCTGTTGAGAAG	185
132	CAACTTCTTCCTCATCCTCTCCT	110
166	AAGACGAGCGTGGAGTGTTT	147
470	CATACTTCTACTGAGAGATAATCCTTGG	443
987	GCATTGACATTGGAAGAGTGGCT	965
700	CAGTAAGGTCACGGCTTGGAG	680
1234	TGAGGATGACAGGATATGGTGA	1213
838	GATTCCATTAGAATTACAGTCAGAAGC	812
229	CCGTAGTAGTAGTAGTGAGAGACGATCC	202
366	CACGACGAGAAGGAGGAACA	347
500	CACGACGAGAAGGAGGAACA	481
556	TGTCCTCGTCATTTCGTATTCG	536
480	CCATATTCGTATCCGACGTAATGC	457
2102	GAGTTGTGCTTATTGATGGTGATGG	2078
405	GACTAGGTTACGTCTGATGGTG	383
1239	GACGGACTGGCGAGATGAAC	1220
1308	GACGGACTGGCGAGATGAAC	1289
1656	CATAGCGACTCAGCCAGCGA	1637
1395	CATAGCGACTCAGCCAGCGA	1376
158	GTGAGTCCGCACTGTGAAGC	139
158	GTGAGTCCGCACTGTGAAGC	139
164	GTGAGTCCGCACTGTGAAGC	145
164	GTGAGTCCGCACTGTGAAGC	145
1131	TGATGTTCTCTGCGGTAATGTC	1110
347	CTTCGTGGCATGTGTTGAGC	328
1032	GCAATCAAGGAAGTGGTATGGA	1011
192	TTGACGATAAGGATGGTAGAAGTAGGT	166
81	TTGACGATAAGGATGGTAGAAGTAGGT	55
800	ATCGGAATACCAGCTTGAAGTGT	778
170	GATGATGATTCTCGTTGTGGACT	148
105	CCGAGAAGTAGAGTCCGACGA	85
330	CCGAGAAGTAGAGTCCGACGA	310

217	CCGTCTTGCTTGTTCTCTTGA	197
540	AGGCAGAAGACGAAGGAGATG	520
569	GCAAGTAAGGAATAGCATAACCAAT	545
459	CACTTGACGACGACGGAATG	440
289	AGCGAATGACGACGGTGATC	270
357	GGACAACCAGGCAATCACTACA	336
529	GAAGCAGCAGGCGATGAGTC	510
359	TTGACCTTGCGTGCTTCTCG	340
105	GAAGCAGCAGGCGATGAGTC	86
783	GGACATTAGGATATAGGCAATTACACC	757
147	GACAATAGTTATCAATACGGCAATCC	122
1243	CATCATCCTCAGAAGCCAACG	1223
1234	CATCATCCTCAGAAGCCAACG	1214
124	GGCATTGTACTTGTCAGGATT	103
2332	TGTAACGGTCTTCGCTGTGGA	2312
1830	GGTTGAATGTATGGAAGGAAGGA	1808
408	GGTTGAATGTATGGAAGGAAGGA	386
1031	CAATTCAGTAGCAACTCAACGG	1010
704	TTGTAGAGTATCCAATCATTGACATAGG	677
3050	GGAATGAGAGAGTTGAGATGGC	3029
2347	CAGATGATTGTTGTTGTTGCG	2327
1684	CAGATGATTGTTGTTGTTGCG	1664
2512	CCATCTCAATCGGATTCATTG	2492
2936	CAGCCACGTTCATATCTCCAC	2916
271	ACGTTCGAGTTGCTAGAGAGGT	250
1064	GCAAGTAAGTAGACAAGTGAGAATAACG	1037
1064	GCAAGTAAGTAGACAAGTGAGAATAACG	1037
235	CGTCGTCATCCACATTATCG	216
550	CGTCGTCATCCACATTATCG	531
1146	CTGGTAGGATGGTGGTGGAG	1127
478	GCATTGTGTTGAGGTCCAGGA	458
223	GCTTCATCTCCACATAGGTCTCC	201
264	CGCTAAGTGCAGTGCTCAGC	245
140	TGTAAGAAGATGGCGATGGAG	120
899	CCACCGCCAATAACAGAAGC	879
906	CCACCGCCAATAACAGAAGC	886
162	CCGCCGATTACAGTGTTGTC	143
162	TCCGAAGATGTTCTCAGCGT	143
246	GAGAACTCGACGAATGCGAA	227
195	GTTGTTGTTGCTGCTGTGCTT	175
5620	AACTCGGCTTCCAGGCTACG	5601
5642	AACTCGGCTTCCAGGCTACG	5623
1900	CCTGGACGATCATCATTGTTC	1880
887	GATGCTATCGGTAATCTGCTTCA	865

1306	TCCGTGACAGTTGATTCCTTC	1286
1342	TCCGTGACAGTTGATTCCTTC	1322
1344	TCCGTGACAGTTGATTCCTTC	1324
750	CTCCGCAAGCACTGTCCTCT	731
750	CTCCGCAAGCACTGTCCTCT	731
750	CTCCGCAAGCACTGTCCTCT	731
1118	AACGATCTTCTTCACATTGTCTGTT	1094
1135	AACGATCTTCTTCACATTGTCTGTT	1111
240	CCATCTGACTTGAATCGAATCG	219
679	CCATCTGACTTGAATCGAATCG	658
603	CCATCTGACTTGAATCGAATCG	582
2525	CTGTCGTTACTCATCAGAGCATCT	2502
1450	TGCAACACCGACACAGAACT	1431
1450	TGCAACACCGACACAGAACT	1431
162	TGTTGTTCTCCTTCGTCAGCA	142
775	CGAAGTGGCACCTCCGAAGT	756
280	CCGCTTCGTACATGTCTTCCTG	259
126	CACACACACACTCACACATCCA	105
2424	GTATCACACGCCGAGCACTTG	2404
765	AGTCCAGGCTTCCATTCTGTG	746
107	GGCGTAGACTGTTCAACTGGTG	86
107	GGCGTAGACTGTTCAACTGGTG	86
647	GGTGTGGAGTCGGATGAAGA	628
199	GGATGGAACATCTCCAGAGCT	179
205	ACGGAGCACAGGAGCAGTTG	186
205	ACGGAGCACAGGAGCAGTTG	186
684	GGCTTCTCGTGGTTAATATAGGC	662
220	CGAAGTTAGCAAGTGACGGAGT	199
185	AATAGTTGGCGGAGAGGTTGA	165
485	CATCCATATCCAGGTAGGTGAGG	463
1112	CACTCCAAGACGCATTCATTC	1092
459	CACGAAGTTGCTCACGGATAG	439
276	ACGAGGCACAGGATTCAGGT	257
367	CACTCCTCGTTCCAGTATCCG	347
570	GGACATCATATTGACCACCTTGTTT	546
347	AACAAGAGTTGAAGTGACTGTATCGG	322
125	TCAAGTTGATCATATACCTTCGCA	102
155	AATGCGTAACAACATATGTTACCGTAA	129
425	CAACCAATAGATCACTGTTACAGTT	400
384	CAACCAATAGATCACTGTTACAGTT	359
1484	TGACCAGAGCATGTGAGTCCT	1464
279	TTCAGCAATCATATCCAAGCG	259
319	ATTGACAGGCGGTGCTGCTT	300
173	TCATGTCACCATCGTTACCAGT	152

333 ACCTCCAGTAGAACCAGAATCATC	310
1050 CGGAATGTTCAACAAGCACACA	1030
1855 GCGAGAATGATAGCAACCTGA	1835
859 GCCGCATAATCAAGATATAGGAA	837
310 GCCGCATAATCAAGATATAGGAA	288
310 GCCGCATAATCAAGATATAGGAA	288
553 AGGAATACCGAGAGAATGACCAA	531
165 AAGAGAATCACAACACGCCAGT	144
748 TGAATGATAATGACGATTCTGCTC	725
554 TGAATGATAATGACGATTCTGCTC	531
675 TGCAGCCATCCAGAATACTGT	655
2627 TGTTGGAGAATGAGGTGGAGA	2607
2671 TGTTGGAGAATGAGGTGGAGA	2651
1620 GCTCGTGATAACCGTCCATT	1601
1664 GCTCGTGATAACCGTCCATT	1645
3409 TGTTGGAGAATGAGGTGGAGA	3389
2547 TGTTGGAGAATGAGGTGGAGA	2527
3544 TGTTGGAGAATGAGGTGGAGA	3524
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3544 TGTTGGAGAATGAGGTGGAGA	3524
2547 TGTTGGAGAATGAGGTGGAGA	2527
2627 TGTTGGAGAATGAGGTGGAGA	2607
2671 TGTTGGAGAATGAGGTGGAGA	2651
1627 GCTCGTGATAACCGTCCATT	1608
1671 GCTCGTGATAACCGTCCATT	1652
636 GACTCCAGCACAACCTCCAG	617
245 CCGACCAACAGTCATCAATATGC	223
2335 CACGGAATCTGGCAACATCT	2316
957 GGAGAAGTTAGGAACAAGAATATCGT	932
260 TCCAGTTATCACTGTTCTGTCTGA	238
260 TCCAGTTATCACTGTTCTGTCTGA	238
293 GAGAATCTACATGATCCACATAATCTG	267
456 ACTCAGATCATCTTCCGCTGTT	435
268 TGCGGAACTGGAAGATTGAG	249
558 TTGTTCTGAGATCCTCTTGACGAG	536
558 TTGTTCTGAGATCCTCTTGACGAG	536
521 TGTTCTCACAGGTTGAATCACTTG	498
1456 GAATCCACGACCACGAGAGT	1437
644 CTGAGAACGTGGCGAACATC	625
706 CTGAGAACGTGGCGAACATC	687
320 TGCCGACGATTGATGGATAC	301
95 TAATGTTGATTGAATAGAACGAGATTC	69
196 ACATAGGTGGAGTAGGACTGCTG	174
709 CAGTCTCCTCAGCAATAACGC	689

829	CAGTCTCCTCAGCAATAACGC	809
399	AAGAGAGAATGGTGAGATGTCGTAA	375
329	TCAGGACAATAGAGCCGCAA	310
276	TCAGGACAATAGAGCCGCAA	257
209	CCGCATAGAGGAAGTTGGATAC	188
1115	AGTTCCGTAGTGTTCATTGATTCG	1093
1127	GTGGAATTGTCCATCCGAAGT	1107
633	TTGGTAGAGCATCGGCGTAT	614
1247	AAGCCATAAGAGTAGTTCGGAGAGTAGA	1220
580	CCTCGCATGACATCTTATCTGA	559
436	AATTGTTCGATGTTTCATGGCA	417
108	ACACCGTAGGTCTGGACAGC	89
976	CATTATGTCATCGTAGAACACGTAGA	951
885	CAGCGAAGAATGTACTGAACCAC	863
1958	AGCACATCTTCAGCGAGAGC	1939
150	CGATGAAGATCGGAACGAGT	131
1049	AGCACTACGACCATACTGTGAGAG	1026
795	ATACTGCGACCAGATTCCGA	776
1495	GCCAGAGAGCAAGAATGAGC	1476
1291	GCCAGAGAGCAAGAATGAGC	1272
1135	GCCAGAGAGCAAGAATGAGC	1116
2285	ATTGTGCGTCTGCGAGTCTT	2266
130	TAGGCGTCGTCGTCTGTCGT	111
875	GCGATGAGCTACATATGGAAGATC	852
755	GCGATGAGCTACATATGGAAGATC	732
826	GCGATGAGCTACATATGGAAGATC	803
125	ACCGTATCCTCCACCACCAT	106
901	GTGTGTTGGATCTTCTTCTCTCG	878
864	GTGTGTTGGATCTTCTTCTCTCG	841
172	GAATGCCATTGTACTCAGCCA	152
1350	GCGTTCAGAGTAGTTGTCCGA	1330
1301	GCGTTCAGAGTAGTTGTCCGA	1281
2588	GTCTTCACTCCATCACGACCTT	2567
364	TGTCTTGGCAATGGAGAGTTC	344
1943	TTCAAGTAACCGACATACAATCCA	1920
1535	TTCAAGTAACCGACATACAATCCA	1512
1388	AACTTCTTGTCTGCTATTGTGG	1366
781	TTCCAGGAGTGCTACAGGCT	762
157	TGATCCTTCAAGAAGAGAACCG	136
368	TCTCTCCAGCAGACTTCTCAACT	346
173	TGATCCTTCAAGAAGAGAACCG	152
123	AGAGAGCGGATAAGGCGTAAC	103
734	GTTTCATCCGTTATGGAGCCA	715
236	GGACGAGGACGACAGCAATG	217

238	GGACGAGGACGACAGCAATG	219
238	GGACGAGGACGACAGCAATG	219
198	CGGAGTGATTGGAGGAGGTG	179
124	TCTGTTGCTATCTCTTCGTGGA	103
172	TCATTGGTCCACTGATCATGTC	151
164	TGTGGCAGACGACTCTTCATC	144
164	TGTGGCAGACGACTCTTCATC	144
567	TGGAGCAGCAGTGGAGACAT	548
908	CCACAACTGCCGAATAGATGA	888
637	CTGGCTTGATGGTTGGAGAA	618
1038	CCAAGATTCGACTTCAGATGATG	1016
1055	CCAAGATTCGACTTCAGATGATG	1033
322	TGAAGGCAGGTGACTAATCCA	302
443	CGTCCTTGTTGGCTTCACTT	424
1207	GGAGATGGCACTGGAGATGG	1188
453	ATGGCTTCTGCTGGTGGTAA	434
1487	CATTCCACCTTCGACCAGTGA	1467
1493	CATTCCACCTTCGACCAGTGA	1473
223	GAGAGCAACTCCGAGACATTC	202
565	TTCTTCTTCTTCTCCTGTTGTGG	543
130	TCCTCCAGATAAGTGTTGCCA	110
144	CAATAATTCGGTGACGACTGG	124
151	GCGAGCACCAACAGAGAGAT	132
310	CACCATCACCGTAAGTCGTTG	290
4713	ATTGAGTAGGAACACGAACAGATG	4690
4722	ATTGAGTAGGAACACGAACAGATG	4699
3858	GAGCGAGATTGCGAGCAGTT	3839
619	GGTAGGCTGATTGATTCTGG	599
256	GGCGATAATGCGATGAGCAT	237
459	GCCATAGCGTTGAATCTCCA	440
285	GCCATAGCGTTGAATCTCCA	266
491	CTCTTGATTGGCTTGTGATGC	471
934	AAGACCAGCAAGTAGACAATCAGA	911
176	GGATATTGATGTTGACTACTCATAGGAT	149
236	GGATATTGATGTTGACTACTCATAGGAT	209
617	CACTAGGTGTTACGATTGGAGCA	595
291	GTCTGATGTTGCCAAGAATCG	271
1089	GATTGTGGCTTGACCGTTGG	1070
615	GATTGTGGCTTGACCGTTGG	596
777	GCATTCGTTCTTCTCGTTCAG	757
847	GCATTCGTTCTTCTCGTTCAG	827
661	GCATTCGTTCTTCTCGTTCAG	641
204	TGAGACGATAACGGATTGGAA	184
577	AGTGGCTTGCGAGTTGGAGA	558

461	GGAGCGGAAGAAGAAGCAGTAAC	439
394	TGGAGCTCTCGGAGGTCCAC	375
275	TGATTCTTGTACATGCCACA	255
202	TGATTCTTGTACATGCCACA	182
93	CTCTTCTTGTTGATCACTGGAT	71
123	GCGCCTAATAGACCACCTCAA	103
143	CCACCTCTTCTTAATTATCCTCA	119
132	AAGGCAAGACGAGGCACATC	113
2628	CTCCTCCATTACCATTACCTCCT	2606
2628	CTCCTCCATTACCATTACCTCCT	2606
364	TCTTCATCGCAACATTCTACCGT	342
364	TCTTCATCGCAACATTCTACCGT	342
758	GACCGACGATCAGATGTTGC	739
147	CACAATAATTCTCCAACGTGACG	125
271	TACTTGTTGCCACCAGCCAT	252
183	ACCTCTCCATCTCGCCTCAA	164
129	GGTTCTTGAATGGTAGCACCA	109
1962	CTTCTTCCTCGTCTCCGCAT	1943
1948	CTTCTTCCTCGTCTCCGCAT	1929
1534	TGATGAACTCTATCGAGAATTACTTGG	1508
328	CGCTGTCGTCGCTCAGATTC	309
390	CGAGGTACTCAATCACACGCT	370
149	TGGTGTGTCTGCGTCGTGTA	130
157	GTATGGTGGTGGTGGAGCCT	138
406	GTATGGTGGTGGTGGAGCCT	387
228	GTATGGTGGTGGTGGAGCCT	209
244	CAGATGGTCGGAGTGGAATG	225
152	TTGCTGTGAGAATCGGTTGC	133
152	TTGCTGTGAGAATCGGTTGC	133
102	ATGGAGCACAGTCCTTCACG	83
299	GTCCACATTCCAGATGACACC	279
361	TCCGCCGAATGATTGAACTG	342
334	GAAGAGCTGCCGTTGCGATC	315
227	GAGGACTTCGGCGGTGAGAT	208
441	GAGGACTTCGGCGGTGAGAT	422
284	GAGGACTTCGGCGGTGAGAT	265
918	GCTGACTTCTCCAATGTTTCGG	898
531	TCCAGAAGCATAGCAGTATCCAT	509
531	TCCAGAAGCATAGCAGTATCCAT	509
876	TGGAATGAATGGCTCTACATCGTC	853
834	TGTGAAGAGGATTGCGATGG	815
180	TTGACATTCAGACGCTCAGC	161
475	CGTGTGCTCTTCTCCTTGGC	456
143	CCGAGACAGTGGAGATGTGG	124

193	CCGAGACAGTGGAGATGTGG	174
247	CCATGAATGTAATCGAACTGACTT	224
623	TTGTCGCCTCCATCGGTTAG	604
717	TTGTCGCCTCCATCGGTTAG	698
694	TTGTCGCCTCCATCGGTTAG	675
717	TTGTCGCCTCCATCGGTTAG	698
223	CTGTTGAGTCTCCTTCATCGTCTT	200
260	TGCTTCGTGATGATGATGATGG	239
260	TGCTTCGTGATGATGATGATGG	239
410	TCAGTGCTTGAATCCATCCA	391
153	GGACGCACTACAGGACGGAT	134
267	AACCTTGCCGACCTTCTAGG	248
146	TCTCCGCACTATGTCTCCTCCT	125
4236	AGTGTTAGTGTCTGTTGAATCTGTTGC	4211
4236	AGTGTTAGTGTCTGTTGAATCTGTTGC	4211
761	TCCGTGTTGTTGTAGACGATCA	740
923	TTATCTGCGTGTCTTCTTCATT	901
923	TTATCTGCGTGTCTTCTTCATT	901
116	TGAAGACCTGCTGTGCTCGT	97
116	TGAAGACCTGCTGTGCTCGT	97
149	CCACAGGCTGGAGAGAGAGG	130
364	GCGTGGAGCCAATCATCACT	345
400	GCGTGGAGCCAATCATCACT	381
731	TTCCGTGAACAACGAGCGAT	712
731	TTCCGTGAACAACGAGCGAT	712
709	TTCCGTGAACAACGAGCGAT	690
774	TTCCGTGAACAACGAGCGAT	755
703	TTCCGTGAACAACGAGCGAT	684
731	TTCCGTGAACAACGAGCGAT	712
483	CGAGAGGCTCCAACAAGGTG	464
363	TCCATTCTTCACGGCAGATC	344
177	ACCGTTCCACCACTCCACAA	158
86	CGTCCGACCATTCTTCAGG	67
291	TTGTAGGTGTCTGCGTCTCG	272
810	CCACACGGTGAACCTCGAGA	791
890	GCAATGTAACGAAGGAGTCCA	870
1186	CATGTCCAGGCACCAGAGAC	1167
1367	ACGGTTGTGCTCCTTGATGA	1348
267	GGCAGATGGTCGGTGAGTTAC	247
502	TGATACAACTCTACTGCTTGATCCGTA	476
502	TGATACAACTCTACTGCTTGATCCGTA	476
361	GGTATCGGTAGTAGAAGTTAATGGTGA	335
441	CAATGAGAATCCACTGACTGCTG	419
853	CATGTGTTACAATTGCAGCCA	833

358	CAATGGTAGCGTAGAATCGGTT	337
1014	GCGGATTGGAACCTCTGGTT	995
870	CGTGAATGAGATATGGTTATTGATTG	845
266	CAAGCCAGAGCTCCATATTGAG	245
3331	CTTGTTGACTTCGCAGAGGTC	3311
604	GAATCGTAGATGGAGAATGCG	584
584	TCGCCTTCGGTTGTGGTATG	565
358	GCATTATTGAGAGAAGCCACCA	337
1922	CGTAGGATGACTGAGGCTGGT	1902
379	CGTAGGATGACTGAGGCTGGT	359
1939	CGTAGGATGACTGAGGCTGGT	1919
2574	TGAGATTGATGATGGAACCTCGTT	2552
827	TGAGGAATGTGTCGTTGTGG	808
827	TGAGGAATGTGTCGTTGTGG	808
146	GTTGGTTGATGGCAGTTGGTT	126
440	AGTCCTTGTGGTCCTGGCTGT	420
472	TGTGTTTCATTGTCATAGTGAAGAGC	448
344	GCGTAGCCACCGTTCTTCTC	325
322	GCGTAGCCACCGTTCTTCTC	303
344	GCGTAGCCACCGTTCTTCTC	325
303	GATCCTTCCTCGGCGAACTC	284
138	TGAAGTAGTTGCCAAGGTCGT	118
126	GCGAAGAGCAGTCTCCAGCT	107
144	TTCTTGTAGTTGGAGTTGTTGCG	122
131	CCATTATTGTATCCTCCACCATAACC	107
1093	CAGTTGCGTACATTGGCTCA	1074
1173	CTCCTCCTCATGCCAATCGT	1154
635	CCAATGTGCTCAATAGTCTCCAG	613
143	CCATTCATACCGTATCCTCCAT	122
155	TATGGACGCATTCCGTAGCC	136
255	AGAGACACAGAATGACCAAGCC	234
275	GCTGGAGCACATTGAGTGGTT	255
338	CCACAGCCTCAATCGCCATT	319
595	GGATACTAGGACGGAAGAAGTGTGA	571
272	ATGAACTGGTTGAACTCCGAAT	251
168	CGCATACCGTATCCGCCATA	149
577	AATCTACTCCGTCAATGTCATACTTCT	551
1010	AAGCACTCAGGAGCCAGCCA	991
505	GCTCAACAGATTCATAGACAACCA	482
303	TCTGTAGTAGTATCCTACGATTGCTT	277
538	TCATGTGACTATGGATGAACGC	517
237	CCATTCAGAATAGTATCCAACGACT	213
263	GGCGGTGCTCTAGTTGTTATTGTAG	239
285	ACAGTAGGAGTGCAATTCGGAA	265

275	ACAGTAGGAGTGCATTCGGAA	255
457	TCTCATCATACTTACGAGTGTTGTGA	432
429	TCTCATCATACTTACGAGTGTTGTGA	404
472	TCTCATCATACTTACGAGTGTTGTGA	447
254	TGGAATCCACAATGGAATCC	235
296	TTCAACGGTAGGCATGGAAC	277
563	CGTTGCTGAAGTTATGTATTGCC	541
319	ACAGTTGGTCCACGACGGAT	300
275	ACAGTTGGTCCACGACGGAT	256
284	AATCGTCATTCCAGATGTAAGCA	262
153	AACATCAGACTCGTGGACCTTC	132
4242	GAGTTGGTGCTGCTGCTGAT	4223
623	GCCTTATTGCTCGCTACCGT	604
741	CATCTTCGTAGGCTCGCTGA	722
403	GAATCAAGAGCCAGATCAACG	383
204	CCAGAGAATAGTTGAGTGAGGACA	181
128	CATAATTGGCTTCACACTGCGT	107
243	TCAACAACAACAGCCAGTCG	224
782	CAACGTAGCAATTCCGACAGA	762
103	GGTGGAGGTGTACTGATAGGAGAA	80
296	TTGTAACTGCGTCGTACGAGT	275
546	TGTTACTTCTGGTGGCAGATTAGG	523
1103	ACAAGGATGATGATGGCGTT	1084
284	TGCCAATATTATATTCAACGGTGT	261
645	GTATAGCAATACATGCGTCAATCC	622
769	TATGCAGCGTCGCAACTCCT	750
684	TATGCAGCGTCGCAACTCCT	665
674	TATGCAGCGTCGCAACTCCT	655
754	TATGCAGCGTCGCAACTCCT	735
674	TATGCAGCGTCGCAACTCCT	655
754	TATGCAGCGTCGCAACTCCT	735
136	GACCGTCGGTTACGTCATGA	117
640	ATTCAGCGTATTCTCCGTCAA	620
742	TCTGTAGGTTATCTGGCAGGTGAA	719
132	GAAGGCGGTGAGAAAGTAAGGTC	111
884	GATGGAGCAATGGTCACACTG	864
884	GATGGAGCAATGGTCACACTG	864
306	GTCAGTGCACGCTTGTGTT	287
119	AAGAACATGATTGAGTACATCTTCAGTT	92
973	CGGACTTCTGTGTGATGGTTG	953
955	ACTCTTCGGCATGAATCGCT	936
535	CAATTCGATAACTTGAGCACATGG	512
465	GAACGTATTGAGGAACCATACAGG	442
160	GAACGTATTGAGGAACCATACAGG	137

436	CGATGCGTATACTTCTCATCCTGT	413
998	GAGTTCCGAAGAGGAATGAATG	977
261	GCTTCTGCCATTGCTCTTCTC	241
286	GCTTCTGCCATTGCTCTTCTC	266
318	GCTTCTGCCATTGCTCTTCTC	298
205	GCTTCTGCCATTGCTCTTCTC	185
270	GCTTCTGCCATTGCTCTTCTC	250
286	GCTTCTGCCATTGCTCTTCTC	266
484	GCTTCTGCCATTGCTCTTCTC	464
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270	GCTTCTGCCATTGCTCTTCTC	250
286	GCTTCTGCCATTGCTCTTCTC	266
484	GCTTCTGCCATTGCTCTTCTC	464
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270	GCTTCTGCCATTGCTCTTCTC	250
286	GCTTCTGCCATTGCTCTTCTC	266
484	GCTTCTGCCATTGCTCTTCTC	464
463	GCTCGCTCACAAGAAGAAGTG	443
463	GCTCGCTCACAAGAAGAAGTG	443
356	AGATGTACCTCTTCAGACGGACTC	333
405	TGTCTTGAATAATACGATAATGGCA	381
151	GGCTTCCGTTCAATAAGTGC	132
550	GCCGATCCAACATCACACAT	531
503	CCGATCCAACATCACACCAG	484
224	TGGCGAGAGATGAGCACTGG	205
133	TGCCAATAAGTGCGGTCAGA	114
157	TGTCGGTTCAAGCTAGCAGAA	137
321	CAGTTGCTTCTACCGCCATT	302
495	CAGTTGCTTCTACCGCCATT	476
745	GTCCAGTCGTCGCCAAGGTT	726
2306	GGACGATGGTGGTGTGATTC	2286
2374	GGACGATGGTGGTGTGATTC	2354
2362	GGACGATGGTGGTGTGATTC	2342
2574	GGACGATGGTGGTGTGATTC	2554
193	AACCTTCTCTTCGTTCTCGGA	173
192	AACCTTCTCTTCGTTCTCGGA	172
2343	AATAAGATGCGTTGTTGAGTTGAG	2320
2343	AATAAGATGCGTTGTTGAGTTGAG	2320
2343	AATAAGATGCGTTGTTGAGTTGAG	2320
340	ATCATAGTGGTGTACTTGGTGTGC	317
394	ATCATAGTGGTGTACTTGGTGTGC	371
357	ATCATAGTGGTGTACTTGGTGTGC	334
752	CCACCATTTCATACAGACAGACG	731
303	GCATTCAGCACTTGGTTCAGA	283

141	CGTTAATCCGGTAGACGAAGAC	120
400	TCGCCATCAGAGTTCTCATTG	380
1207	GCGAGAGACAAGAGCAGCAC	1188
830	CCGAACATGATGACAGCCAT	811
329	ACACTTCCAAGCAAGTTCCG	310
179	TGACCATCTACTGGTTCCAGGTAT	156
179	TGACCATCTACTGGTTCCAGGTAT	156
233	CAGAAGATTCTGCATCGCATT	213
492	ATCTGAGCAATCGTCGCATC	473
492	ATCTGAGCAATCGTCGCATC	473
492	ATCTGAGCAATCGTCGCATC	473
492	ATCTGAGCAATCGTCGCATC	473
1272	GCGAGTCCGAATAACAACATGA	1251
184	GATCTTGGAGTGATAGTGATGGAA	161
433	ACAGGTTCCGAGCATCTTCC	414
909	TGGATTATTGGATTCCGTGTGA	888
512	GGATTGGAACAAGATGATATTGC	490
131	TTGAAGAATACCGCCATTGG	112
643	GTATACTAGGCCAAGCAGGTTCA	621
603	ATAGAGATACAATGTAATTGCACTTGC	577
682	ATAGAGATACAATGTAATTGCACTTGC	656
226	TTACAATCTTGAGGACAGCAGCA	204
136	AGCTCTAACTAGATCCACATCTAAGTCA	109
6169	TGTTGTTGTGGCATCATCATCA	6148
6202	TGTTGTTGTGGCATCATCATCA	6181
6082	TGTTGTTGTGGCATCATCATCA	6061
511	GCGATTGGAAGATAAGAAGACG	490
158	CAGAAGAACAACGCCTGAATC	138
249	CAGAAGAACAACGCCTGAATC	229
963	ATGAACCACTGTTGCGACCA	944
776	GTAGCGGACGTCGTGGAGAC	757
1305	TTCTAATGTACTATCGGCTGTGGA	1282
441	TTCTAATGTACTATCGGCTGTGGA	418
859	TTCTAATGTACTATCGGCTGTGGA	836
533	CGTGGAAGAAGCGATGTTGG	514
533	CGTGGAAGAAGCGATGTTGG	514
864	GCATGGCACCTGAGCTAGTC	845
174	CAACAGCCATTGAAGCGATT	155
183	CAACAGCCATTGAAGCGATT	164
189	TTCCAAGAACTCTCCACAACATTC	166
221	GATCACTTATGAGCCACCGAA	201
2329	TTGCTGCTGCTGATACGGAT	2310
2391	TTGCTGCTGCTGATACGGAT	2372
1253	TCAGTGGAAGTTACATCATCAAGG	1230

1239	TTGCTGCTGCTGATACGGAT	1220
103	CACTTAATAGTACAAGCAAGAGAAGAGC	76
244	CGGATGAATGAGAATGACACTCT	222
121	CTCAATGTGTGCACCTGACAA	101
129	TGCCAGACCTTCTAATCGATTC	108
871	AGACGGAATTGAGCTGGTGA	852
571	TTCCACACTCTAAGCAATCCG	551
467	CGTGAAGCCATGAAGATTCG	448
571	TTCCACACTCTAAGCAATCCG	551
906	AGACGGAATTGAGCTGGTGA	887
1172	TTGTGGATTCATCGGCTGGA	1153
1143	TTGTGGATTCATCGGCTGGA	1124
1170	TTGTGGATTCATCGGCTGGA	1151
1147	TTGTGGATTCATCGGCTGGA	1128
1328	TTGTGGATTCATCGGCTGGA	1309
1304	TTGTGGATTCATCGGCTGGA	1285
450	TTGTGGATTCATCGGCTGGA	431
324	TTGTGGATTCATCGGCTGGA	305
102	TTGTTGTTGTGGAGCCGAAG	83
129	TTGTTGTTGTGGAGCCGAAG	110
237	AACGGTCCGCTTCCTCTCAT	218
151	TGAGACCGCGAATGTAGAGAT	131
939	AAGAAGAAGTGGAGTGAAGACGTT	916
1319	AAGAAGAAGTGGAGTGAAGACGTT	1296
1295	AAGAAGAAGTGGAGTGAAGACGTT	1272
1241	AAGAAGAAGTGGAGTGAAGACGTT	1218
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1134	AAGAAGAAGTGGAGTGAAGACGTT	1111
1161	AAGAAGAAGTGGAGTGAAGACGTT	1138
1138	AAGAAGAAGTGGAGTGAAGACGTT	1115
948	AAGAAGAAGTGGAGTGAAGACGTT	925
1254	AAGAAGAAGTGGAGTGAAGACGTT	1231
1272	TTGTGGATTCATCGGCTGGA	1253
863	GTTGCAAGTGACAGCTCATCC	843
1925	TGACGAACGGTAATCGGAAT	1906
1942	TGACGAACGGTAATCGGAAT	1923
258	CGCATTGACTTCATCTCTGGT	238
422	TTAATTGGTTGCCATTCCGA	403
262	TTAATTGGTTGCCATTCCGA	243
258	CGCATTGACTTCATCTCTGGT	238
1139	ACCGCATCCAATCGTTCCAT	1120
582	CGGTGAATCCTATCTGACGAA	562
534	CAGTGAAGAGCAATGAATACTGGA	511

475 AGTTGTAAGGTTGAGTATGGTTCTGA	450
268 GGCCAATGAAGCAACAGAAC	249
507 TTGGCAATAAGGTCAGTTGTTG	486
1007 CCATCAAGGTAGATTCTGAGCC	986
221 TGAAGAACGTAGCTAACCGATTG	199
2031 TGCAAGGCACTTGATGAATGC	2011
868 AGCTCTTCCTGTCCACTGCA	849
868 AGCTCTTCCTGTCCACTGCA	849
478 CCATACACTCGTTCATTCTCCA	456
93 TGAGATGTGAACTTCCGATGG	73
435 CCAACTTCACCAACGACAACG	415
435 CCAACTTCACCAACGACAACG	415
7373 CCTGCTGGTGTGGATATTGGAA	7352
111 CGTATAGGTATTCTCGTCCTCTGC	88
416 ACTGCTGCTCCAATGTCCTT	397
1688 GGCTCTGCGAGTTCTTGGTC	1669
89 GTGTCTCCTGAACTTGAATATACATTG	63
1608 TGGCTCTAGGAACATCAGGAA	1588
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201 CTCCTTGACCAGAGAGACACG	181
479 CGTGGCAAGTTGTCAAGGAA	460
402 TTCCTTGCTCAACAGATCCAC	382
1498 CAAGAATAATGTGATAAGATGAACGCT	1472
697 TGTGTTGGATGACTGTTGTGG	677
184 AGAGAGATGATGATATGGCTCCA	162
184 AGAGAGATGATGATATGGCTCCA	162
309 ACATGGCTTCACTTCCTCAGTT	288
224 TCTGAGATACTGCTGAGTCTATCGGTA	198
213 AAGGATTGGTGGCAGGATTC	194
158 TGCTAACTCACGCTCCACAA	139
1174 CGAGATGGACGGTGTGACT	1155
144 TGTGAGCTGAGGCGTACTGC	125
233 TCTGGTGTGGTGATTCCGTT	214
441 ATTGATGGAGTGAAGCCGAA	422
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601 AACTTCGGTGACTGTGGTATCC	580
654 TCATACACAGTACGATGCTTGGA	631
654 TCATACACAGTACGATGCTTGGA	631
639 TTGAGGTGGAGGTGGCTGAG	620
716 CGAGAACGAGATGTGCTTGTG	696
435 CCGACAGATCACCGACCAAG	416
1050 AACGAGAGAACTGTCACAGGATC	1028
2552 GGAGACAGACGAATTGGTTGA	2532
276 TTAATTGCTCTTCGACTTGTGC	255

214	GAAGCCGAGAAGTTGTTGGTG	194
1608	TTGGACATTGATTGGCTGGA	1589
1452	TTGGACATTGATTGGCTGGA	1433
1608	TTGGACATTGATTGGCTGGA	1589
1452	TTGGACATTGATTGGCTGGA	1433
1401	TTGGACATTGATTGGCTGGA	1382
1383	TTGGACATTGATTGGCTGGA	1364
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1305	TTGGACATTGATTGGCTGGA	1286
1384	TTGGACATTGATTGGCTGGA	1365
1394	TTGGACATTGATTGGCTGGA	1375
1386	TTGGACATTGATTGGCTGGA	1367
261	AGTCTCAGGCTCTTGTGGCTT	241
1735	GGAGTTGGACGAGCACGAGT	1716
1099	TTATTAGCATATCGAGATCTGCGTT	1075
533	GCTTCAGCCTGTGGTCGATA	514
700	CGATGTGATACAGATGGTACGAAC	677
645	CGATGTGATACAGATGGTACGAAC	622
625	CGATGTGATACAGATGGTACGAAC	602
680	CGATGTGATACAGATGGTACGAAC	657
366	AGTTGTCTCGCCACTCCTGA	347
1803	CATCCGACGCCAATACGAGT	1784
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7828	CCAAGTCGGTTCCAATCCAT	7809
7762	CCAAGTCGGTTCCAATCCAT	7743
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184	CAATAAGATGTGATTGAGGAAGGAC	160
159	TCGATATCACATGATATTCTAGCCGTT	133
455	GCTGCGACGAATGTGACCTC	436
120	CGGAGAATGGTTAGGAGGCA	101
139	TCAAGCTGTGATTCGATCCA	120
128	TTATGAGAGTAAGCTCACTGCCAA	105
590	CAGATGGATTATTGGCGTTCA	570
616	CAGATGGATTATTGGCGTTCA	596
596	CAGATGGATTATTGGCGTTCA	576
691	CGAGCATCTTCTTCTTATCAGGA	666
95	CGAACAACAGGAAGATGATGGA	74
121	TTCATCATTGGACGACCAGA	102

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1623	AACAAGTCATTCTCAACTCCATCA	1600
1604	AACAAGTCATTCTCAACTCCATCA	1581
1614	AACAAGTCATTCTCAACTCCATCA	1591
486	TGTGAAGAGTTCAATAGCACGAA	464
213	CTTCTGCGAGGACTGCTGTG	194
353	TGGAGCAGACCAGCTAAGTTG	333
420	TGGAACAAGACACCACGCTA	401
1119	ACGAGGTGTGTCACCACGTAT	1099
246	TCAAGGTGGAGGTGGTGACG	227
246	TCAAGGTGGAGGTGGTGACG	227
283	ATTGATGTGTCTTGGCTGCTT	263
391	TTGATGCCAGTTGTTCTTCT	371
213	CGCTGTCGAATTGACGATCTC	193
1481	CCTCGCTGCTCTCTTGTTGC	1462
1360	AAGCATAGTCCTGATCTATATTGTCCA	1334
846	GAGAACATTCCGCTTACATTCAGTA	822
169	GGAAGAATGCTGTGCAACCT	150
846	GAGAACATTCCGCTTACATTCAGTA	822
582	GAGAACATTCCGCTTACATTCAGTA	558
2635	TTGAATTGCGGTTGGACAGC	2616
662	TTGAATTGCGGTTGGACAGC	643
909	GCACGTCATGTCTCACTTGG	890
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1161	GGAATCAGTAGACCAAGAACGAGT	1138
509	GCACTGAAGTATGGATGGATGG	488
602	GCACTGAAGTATGGATGGATGG	581
177	AGGAAGTAGAAGTGCGTGTGCT	156
177	AGGAAGTAGAAGTGCGTGTGCT	156
132	TCCATCTCCCACTGAATACATCTC	108
1524	TGATGGAATGTAGAGTTGGAGAAGA	1500
968	TGATGGAATGTAGAGTTGGAGAAGA	944
1129	TGATGGAATGTAGAGTTGGAGAAGA	1105
891	AATCTGCCAGACATGAAGACG	871
443	TGGTATAGGCTCATAAGAACTACGAA	418
130	TCGTGTAGCAGTATCCTTCATAGCAA	105
913	CGCGCACTCCGTCTATGAAG	894
1183	CAATGAGCGTTAGAATAGGTTGAAGT	1158
487	CTTGAAACAGCACCACTCGCA	468
151	TCTGTAGTCACTGAATAGATCATTGCC	125
261	GAGAACGGTAGACGCCAATG	242
383	GAGAACGGTAGACGCCAATG	364

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329	ACTCCAAGCGGAGCTTCAGC	310
224	TGGCTCCGTTGTTGTGTGTA	205
215	TCGATTAGGAACACGTTGCC	196
287	TCCGAGTCCATCAGAAGAACAAC	264
387	GATGAACGGAATGATTGTGCT	367
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191	CCATTCGCCGCTTGAGGTAT	172
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289	ATTCAAGTGCTGAGAGGTCGTC	268
805	TGGAGCAACTTGTTCTAGAGTC	783
838	TGGAGCAACTTGTTCTAGAGTC	816
1177	GCGACACCTTCTTCTTCATTATCC	1154
1244	GCGACACCTTCTTCTTCATTATCC	1221
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120	AGATGTCACCGAGGCAGAAG	101
401	TCGACTCGTCAATGCTGGTT	382
105	TCGACTCGTCAATGCTGGTT	86
280	TCGACTCGTCAATGCTGGTT	261
656	TGTGGCGAGTGGAGAAGAAG	637
234	ACTCTGCGGCACACTGACTT	215
107	TGACACCGAACACACTGACAA	87
1026	CATATCTTCTGGTGACAATCCGA	1004
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1573	CGCATCCTGTCAACTCCACT	1554
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612	TGATGTTGGTTGTGGATCTGGA	591
575	TGATGTTGGTTGTGGATCTGGA	554
612	TGATGTTGGTTGTGGATCTGGA	591
91	CGTCAGGTGTGAGGAATGTG	72
112	ACGTGTCCAGTTCAGGATCGG	92

233	CAGTCTTCCATCCATTACCTTGC	211
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295	CGGATGTTGAAGGAATAGTGATG	273
202	TGTGGAGCCTCTTCGACTTC	183
824	GTGAACTCGGCGAACACTTC	805
404	AGTACGTCGATAACTTCATTGTGC	381
739	CGACCTTCTTCATCCAACGA	720
396	CGACCTTCTTCATCCAACGA	377
334	CTCATAACGGCAGTCGCAAT	315
590	ATTCCTCTTCATCTTCGTATTCTGTAG	564
1906	GTATCAACGATGAAGCAACGAA	1885
681	GTATCAACGATGAAGCAACGAA	660
639	CAATGAAGAGAATATCCAGCCAT	617
666	CAATGAAGAGAATATCCAGCCAT	644
627	AATGTACGCAATGAAGAGAATATCC	603
646	TCGTTCTCGGTCATCTCGT	627
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139	ACTGCTCCGTGATCCAGCAA	120
508	CCGAGAGTGAGAGGTATGAACC	487
197	ACTGTGGTGGTGGTGGTGGT	178
179	GGAGCAGCAGCGTATTGTGG	160
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2054	GAATGTAGAAGACGCCAGCAA	2034
429	TTGATAGCAATATCGTTCTTGTGAAG	404
802	TGAACAGCTTCTCATTGAACATG	780
140	AAGCGATGAGAATGGAAGTGG	120
150	TGGTGGTCCGAATCCTCCTC	131
190	AGCTGGACCAAGACCTCCTC	171
182	AGCTGGACCAAGACCTCCTC	163
378	TACCGCAGCAATCACCTCCA	359
1067	TGTAACACTACGACAATGTCTGGATT	1042
205	GGCACCGCTTATGAACGACTG	185
1119	TGGTGCAGAGGAGGAGGTAGG	1099
483	CAACAATCTGGAGTCACAAGCC	462
348	AGTTCCGATTGAGATGGTTCC	328
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529	AATCAGAATCCGTTGTGAATGTC	507
128	CAGAGGAGATATGCAACCTACATTG	104
272	GGACAATAAGGTCGACCATAGAGA	249
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159	ATTCCATCCAATTGAAGCACTT	138
175	CACCACACACTGACCATCCG	156

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932 AACGATGTAGCAGGAATCAAGG	911
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1282 AATCGAAGTTAGCGTGAAGAGG	1261
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1002 AATGACCATCCAACACCTGAA	982
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853 GAATAACAGCCATTGTAAGCATAGTG	828
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175 TTCCAGATACCATAAGCTCATCTG	152
402 CCGATGGTATGCTTGAGATGG	382
506 CGGTGGATTGTTGGATACGG	487
639 GAGTTGAGTGAGGAGGTGAGACA	617
177 CCATCCACCATATCCACCAT	158
161 ACCAACCTCATGTGCTTGTTCT	140
370 CTTGGTCCATTCGGCGGTAA	351
631 ATCACATTCCGAGGCGAAGA	612

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427	AGGTATTGACGGCTGACGCTT	407
748	CACAGAGGATGACTGCTTGGA	728
93	GGTATCCACCTCCATAGTAACCG	71
478	GACAATACAGGACTCTCCGCTT	457
409	AGCACATTCCGAGTGGTTGA	390
453	AATCTCTTCCAAGTAAGCCACGT	431
371	TTATTGAATGTGAAGATGTTGTGATTG	345
278	AGTCGCTTCTTGTTCAATTGGA	258
1967	AGTGTCAATCAACTGCTTCCAA	1946
128	TTGTGAGGATCTACTACCGGAGAC	105
430	GCTGCCACGGTATTGACTTCT	410
527	TCATTGATCAGCTCACTGCGA	507
948	TGACTCCTTGATAAGAGAAGACTCC	924
3387	AATGCGACGACTATCAGCCA	3368
2035	GTGAACAATAGCGGATGATGC	2015
521	GTTTCGGTGCTCCTCCAGACG	502
915	GTTTCGGTGCTCCTCCAGACG	896
693	GTTTCGGTGCTCCTCCAGACG	674
279	TGGAGGCTTACGGTAGTTGC	260
169	TGGTGTCAACTGCGTCGTAG	150
1728	ACTCGGCGTGCTTGAGATTC	1709
463	TGGTGTCAACTGCGTCGTAG	444
169	TTGGTGAGATAAGAGTGTGACACAA	145
553	GCACTTCTCCTCCATCTTCTGA	532
3333	TCGCTTCGTGCTCTTCGTAA	3314
434	GCGTAGTATGGTAGGAAGCAGCT	412
292	CTTCTGGTACGGATAAGATGGC	271
155	TCAAGTGTGACGCCTTGTCC	136
373	ACACTCACACGCTGCTGCTG	354
1822	GAGCATCAGGAGCAGCAAGT	1803
582	GTGATTGATTAGACCTGCCTTGT	560
651	TAACCAGTAAGCATCAAGAGTAGTGTG	625
522	GTGATTGATTAGACCTGCCTTGT	500
606	TAACCAGTAAGCATCAAGAGTAGTGTG	580
609	GTGTAGAGATAGAGCGGCGAA	589
219	TCGTGAAGTTGTTGCATTCCA	199
2565	TTGGCATTAGGACGACGGAA	2546
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133	CCGTCTCAATCTCGTTACGC	114
2643	GGAACAGATTCATCCATCGG	2624
2643	TCACCAGATTCATCCATCGG	2624
918	ATTCGTTCACAATGTCCTTCAAGA	895
784	AACGACGAAGACGACGAAGT	765

659 TATTCTGGATCGCAGCATCA	640
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133 CCAATGTGAGAAGTGCTGAGTC	112
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811 CATTGATGGTCCAACTAATCGG	790
1793 CGGTT CATCTTCTGCTCTTCA	1773
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3213 AAGCGGAAGGAATTGTGGCT	3194
3249 AAGCGGAAGGAATTGTGGCT	3230
190 ACGATGAAGACGATGAGTTGGAG	168
190 ACGATGAAGACGATGAGTTGGAG	168

190	ACGATGAAGACGATGAGTTGGAG	168
1529	GCTTCATAGTCAACTGGTGGAGAG	1506
170	CCGTTGACCACTGATAGC	150
367	ATTCTCGGTGATCGAGATCG	348
540	TCACCGCTAGTTGAAGTGTGG	520
182	TCGTTGATTAGCCATCGGAT	163
192	TCGTTGATTAGCCATCGGAT	173
1136	CGATGGAGGAAGTGATGACG	1117
127	GGAAGCGCTTGACACTCTCC	108
140	TGAAGAGAGCGAAGAACCATTG	119
1175	ATTGTGTGTACGGCGGATTG	1156
220	GATGATGAGAAGAATGAACGAGGA	197
1059	ATTGTGTGTACGGCGGATTG	1040
1058	ATTGTGTGTACGGCGGATTG	1039
238	GATGATGAGAAGAATGAACGAGGA	215
976	ATTGTGTGTACGGCGGATTG	957
355	GATGATGAGAAGAATGAACGAGGA	332
461	GATGATGAGAAGAATGAACGAGGA	438
343	AATCCGTTGATCTTGTGTGGTC	322
358	AATCCGTTGATCTTGTGTGGTC	337
343	AATCCGTTGATCTTGTGTGGTC	322
310	TGGAATCAATCGCACTGTCTG	290
103	AAGATGGACGGTCTTCTGCTT	83
231	TCTGGATTCTTGTGTCGTTTCG	211
231	TCTGGATTCTTGTGTCGTTTCG	211
379	CCAACATAATAGTGAATGCTTGTCC	355
243	AAGAGCATCCGAAGCATTGG	224
257	AAGAGCATCCGAAGCATTGG	238
243	AAGAGCATCCGAAGCATTGG	224
257	AAGAGCATCCGAAGCATTGG	238
600	TCCTACCAGCTCTGACGACAA	580
287	CCACGAAGTATCCAGTTCCGAT	266
521	GTCATTGGTCCAGATGTAGAAGG	499
182	GATGGCGTTAGATGAGCACCT	162
214	AGCACCTCCAAGTCCATCAGC	194
561	CAATCAGGTCGTCACCGTGT	542
212	GATGGCGTTAGATGAGCACCT	192
421	GATGGCGTTAGATGAGCACCT	401
576	CCGTTCAATCCGTCTTCGTT	557
576	CCGTTCAATCCGTCTTCGTT	557
125	CTCTGCGGCCATTAGACGAA	106
132	CGGTGAACTACTGCCAGAGG	113
161	GTGAATTGTGGTCCGACGAG	142
467	GTGAATTGTGGTCCGACGAG	448

3613	TGGCGAGTAGACCGAGAAGA	3594
2253	CATGTCAAGCTCAAGGATCAGTT	2231
1119	GGCTTGGTCTGTCGCTACTCC	1099
175	GCGTCCTCATCTCCTTCCAG	156
168	CATCTCTCGATGAGCCATCC	149
125	ATGGATGACGTTGACTCGGA	106
125	ATGGATGACGTTGACTCGGA	106
263	AGGCGGCTGGTGAAGAGGTA	244
85	CTCTGATGAGAGTTATGAATAGGATGA	59
164	TGGTGGAATAGTGTTACAAATACG	141
324	CGAGATTAGAGTGTGACGGTGAGC	301
132	TTGAACACACGGCTCTACGA	113
365	CTCATGGTCAATAATGTTGGAACC	342
242	TTCTCACTCTCTGCTCTCTCTGC	220
272	GAGTCGTTGGTGTGCGGCATC	253
442	AACGATGAACGTGTGAAGCC	423
342	ACCGATTGTCCAGTCACGAA	323
259	GCAAGTACGTGGACGAGTGG	240
2359	AAGGAGGAGCAACGACGAAGA	2339
2315	AAGGAGGAGCAACGACGAAGA	2295
359	CGTAGTAACAACAACACCAGCAA	337
895	CGTCAGTAATAACCTCATCGTGGA	872
135	TCCAGGACCACACGAGACAA	116
181	TGTGCTTCTTCATTATGTATTGTGC	157
1809	CGAAGAAGAATAGAGAGCAGAATGAG	1784
177	CTTCGACTCGTAGTAGTTGCGTT	155
371	TTCCATTCTCATTGATCCTAACCA	347
148	GCAATGAGGAGACTGGTGTCG	128
910	CGAAGTACAGATTGATGAGTGGAT	887
505	CGAAGTACAGATTGATGAGTGGAT	482
151	CCGCAATCCATAAGACCAACA	131
862	CCTGGAGTTGAGTCTACATCTTGAATC	836
1447	ATTCTTCCGTTGCGTTGGTC	1428
1159	GATCGAAGTGACGTGGAACAGTA	1137
152	GCTTCTTCTGGTTCCTCGTTGT	131
167	CCAAGATACACCTTATCGCAGAT	145
172	CAGGCGTTGTAGTAGGAATGTCT	150
619	CGAAGTATGATTGCATTGAGAACA	596
126	TGGAGAGAGAGGAAGAGACAGAGA	103
850	ACCACAACAGCAAGGCATCT	831
783	ACCACAACAGCAAGGCATCT	764
523	ACCACAACAGCAAGGCATCT	504
783	ACCACAACAGCAAGGCATCT	764
352	TTCGACGAGATGCACTGCTT	333

203	TTCGACGAGATGCACTGCTT	184
337	TTCGACGAGATGCACTGCTT	318
436	CAGTTGGATCATTCTGCTCCTCTT	413
198	AATCCTTCGGTGACACTTCTCTT	176
308	TGTCTCTCACCACCTTCACCA	288
190	TCAGTCACAGACTGCTGCTCTT	169
142	AACGAGAGTTGCGGATACCA	123
286	CGTACTGTAGGCAACCTTCAGC	265
270	TCCATCACTACACACTGGCACA	249
415	GTGTCGTCGGTGGTACAGGTA	395
578	GTCTTATCGTCAGCAACCACAA	557
423	CCTATATGGTTGCGGTGGAG	404
1439	CGACCACCAAGTGAAGTGTAACC	1417
1550	CGACCACCAAGTGAAGTGTAACC	1528
1422	CGACCACCAAGTGAAGTGTAACC	1400
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135	GAGTCGCTTGGCTTGTGTCG	116
400	TGCTGTCTTCACTGCTGCTC	381
203	TTGTACGCTTCTGGATTGGC	184
913	TTGTACGCTTCTGGATTGGC	894
171	CGTTCTTGTTCCATCTCTTGTGCG	149
386	CGGAGAACCAAGACTTGAAGTCA	364
319	GCACCTCCATACTTCCATCTGA	298
384	GCACCTCCATACTTCCATCTGA	363
1273	GAGAACGAAGAATGTGTGATAGGA	1250
1390	GAGAACGAAGAATGTGTGATAGGA	1367
206	TTGTTGCGGATGCTGGTGTGT	187
938	GAAGTGGTATTGAAGGTAGAACGC	915
888	GAAGTGGTATTGAAGGTAGAACGC	865
888	GAAGTGGTATTGAAGGTAGAACGC	865
545	TCACACATTCGCAAGCAACG	526
91	ATGTCACCACGGAAGTTGCT	72
2623	CAGATTGGTGATAGGATGAGCA	2602
2645	CAGATTGGTGATAGGATGAGCA	2624
721	GTTGTTGTTGATGGAGGTGGAT	700
933	CAATGTAGCCAGCAACGAATC	913
721	GTTGTTGTTGATGGAGGTGGAT	700
348	GCTTGCTGAAGAGTGCTCCA	329
376	GCTTGCTGAAGAGTGCTCCA	357
485	GCTTGCTGAAGAGTGCTCCA	466
599	CACTCATTGCGTCCACTCCA	580

352	CACTCATTGCGTCCACTCCA	333
310	CACTCATTGCGTCCACTCCA	291
595	CACTCATTGCGTCCACTCCA	576
595	CACTCATTGCGTCCACTCCA	576
265	AACACGCTGAGAGGATGTAGTTC	243
846	AGGATCTGTTGGTGGCTGAA	827
242	TCCGCTTCTCTTCTGCCTTC	223
242	TCCGCTTCTCTTCTGCCTTC	223
161	GGAGAGTTGAGTCGCCAGAA	142
122	TGAAGATTCGTTGGATTCGTTG	101
2159	CTGGAGAACGAACTGATGGAG	2139
221	TTGGCATCTGAAGTTGCTTCT	201
247	TGACCGTTCGAATCAGTACGC	227
135	TGAACTAACTGAGCAACGACGA	114
213	CGTTGTGTGAGCAAGAGGATT	193
149	CCGCTTCAGGACATTCAGTT	130
126	TCGACCTCTGTCTCTGCCAA	107
678	CGGCTGATGAGATGATAATGGTT	656
859	ATGGTTGTTCTGGCGTGTGAT	840
1341	GCAGGTGGAAGAAGTTGATGA	1321
1031	ATGGTTGTTCTGGCGTGTGAT	1012
922	ATGGTTGTTCTGGCGTGTGAT	903
77	CGTACTCCGTACATCAAGAAGAATG	53
149	TTGCATTACGGTTAAGCAGGT	129
287	AACTGGTGGTGGTGGTTGA	268
388	CTCCTGGACCGTTAACATCGT	368
779	GAACTCGGCGAACTTCTCAA	760
179	TTGTTGAAGCGGCAGGTGTA	160
179	TTGTTGAAGCGGCAGGTGTA	160
179	TTGTTGAAGCGGCAGGTGTA	160
527	TGTTGAGGATCTTCTGCCGAT	507
471	CAGCCATCATTGTAACCTTCTCG	449
420	GCAAGATCATTGGCTTCCGA	401
432	GCAAGATCATTGGCTTCCGA	413
420	GCAAGATCATTGGCTTCCGA	401
407	AACTGCGACATTATTCCTTCCA	386
641	GCAGTGTGGAACATTCCGAA	622
292	GGTGTTCCTCCACATCCGAT	273
525	GGCGAGTAGGAAGATATCAGATTG	502
537	GGCGAGTAGGAAGATATCAGATTG	514
1572	TTCTTCCAAGCTCTCGTCACTAC	1550
1208	CAATCAACGAGCATACGACCA	1188
1182	CAATCAACGAGCATACGACCA	1162
997	CAATCAACGAGCATACGACCA	977

115	ATGATATAGTTGAATTGACCAGGTGT	90
130	GTAATAATAACGGTATTCCGAGTCG	106
354	CTACGGATTGCCTGAACTCG	335
1546	GTCATCGTTCGGCTTGTCTG	1527
407	AGAACTTCATAAGCACCTTCGTTG	384
812	CTGAGAATATCACTACATGAGACAACC	786
420	TCTGGACTGCCGATGAGGAT	401
130	CGTAGCAGCATCCATCTCCA	111
134	AACTCGGCGTGTGAGAGACTA	114
218	GAAGAATACGGATTGTGATTGTGA	195
567	TCGTAGATGGTGGTTCTGTCG	547
473	GAACCGTCAGCATTCCATCG	454
290	TCCACGAATCCAGTTCCATAG	270
290	TCCACGAATCCAGTTCCATAG	270
311	TGTCCTTGCATTCTCCTCATTG	290
311	TGTCCTTGCATTCTCCTCATTG	290
1446	CGTTGAACAGGAGTTGGAGGA	1426
211	GTCTCACACGGTTGGAAGCG	192
348	GCAGCAAGTTCTACAGCAGGT	328
677	GCATCACGGCAATAGCAGTT	658
1077	CGACGGACACTTCTCACAGC	1058
232	AAGAACCACAGGACGATCTTGT	211
1356	TGAGGTAACCTTCGTGTGGCAT	1336
136	GTCAGTCTCGTCATTGGTGTCT	114
597	TCGTCTAAGAAAGTGCAAGCATTG	575
999	AAGAACAATGACGCTGACGAT	979
247	AGGCTGGAATAATGATGGCA	228
148	TTCTCGTGTAGGCAACTTCGA	128
1629	GGTAGCCGACAAGATCCTGGT	1609
137	TGCTGTCCATTGTGTAACCTTG	116
203	CACTCACGTCATCTCTGGCTT	183
594	CCGCCATCTTGACAATCTGA	575
862	GGTTCCGTATTCAATAAGATCATCG	838
443	CGACTTGAGGTGACTTCCGTGT	422
175	TCCGACGAGGAGAAGTGGCT	156
228	TCCGACGAGGAGAAGTGGCT	209
273	CGTCCTCCGAATCCTCCTCT	254
258	TCCACCTCTGCTACCACCAC	239
1334	CCTCAGGTACATCATCACACGA	1313
1063	CCTCAGGTACATCATCACACGA	1042
162	TCGTCGTGCTCACAGAGGATA	142
707	ATGCGATGCTGACAACTGAA	688
163	TGTATGGATAGTGGTCTTCTAAGTATGG	136
531	TGAGCAGTTGGAAGGAAGAGC	511

476	TGAGCAGTTGGAAGGAAGAGC	456
712	CCATCAAGTAGGAAGTATAGCACATCA	686
110	CGGTGAAGGTTACGGTATTGG	90
93	CAATATGATTGCAGTTACCACCA	71
125	CTTGACAGTGATAAGCTGATAGCAG	101
1803	CAGGAGATGGTGGTGGTGTC	1784
1809	CAGGAGATGGTGGTGGTGTC	1790
1658	CAGGAGATGGTGGTGGTGTC	1639
365	CCTTCTCCGCATTCAACCAT	346
130	TGATTGGCGAAGCAACATGA	111
566	AGTAAGGCTTCCAACACGATCA	545
826	GCTGGATTGTTGACGACGAC	807
837	GCTGGATTGTTGACGACGAC	818
1963	CGAGTATGTAACGGAGTAGATTGACT	1938
1973	CGAGTATGTAACGGAGTAGATTGACT	1948
1236	TCTGTGCCATTGTGATAGCG	1217
1236	TCTGTGCCATTGTGATAGCG	1217
1236	TCTGTGCCATTGTGATAGCG	1217
184	TCGGAAGGTTGAGATTATGGTG	163
1236	TCTGTGCCATTGTGATAGCG	1217
1100	TCTGTGCCATTGTGATAGCG	1081
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184	TCGGAAGGTTGAGATTATGGTG	163
1023	TCTGTGCCATTGTGATAGCG	1004
323	TGTGTGCAGAACCAGTAGTCTCC	301
186	AGCGGTGTCATCAAGGTCCA	167
320	GCGAGAACTGACGAATGTGG	301
358	GGCAAGTGGAAGAGCAAGATG	338
358	ATGATATAATGTGACACTGAGTCCAAT	332
394	GCCTCTGACACTGTTCATGGTC	373
475	GCCTCTGACACTGTTCATGGTC	454
873	ATGATTGGCTGGTTCGTGTT	854
873	ATGATTGGCTGGTTCGTGTT	854
462	GCCAATTAAGGTCACAATAGTTAAGG	437
630	GGCACGAAGATGGAAGAATG	611
1314	GGCACGAAGATGGAAGAATG	1295
1414	GGCACGAAGATGGAAGAATG	1395
526	GATTAACATTGTGCGCAATTATCGTT	502
232	CGTGATGGTTGTGTTGATGGA	212
2270	AAGCCACACAGATTGAGTTGC	2250
2234	AAGCCACACAGATTGAGTTGC	2214
687	GGACAAGTAGTGAAGAGCAGCAG	665
697	GGACAAGTAGTGAAGAGCAGCAG	675
790	CATCGGACAACGAGGTGACG	771
1139	GATTCAGATCGAAGTTGGTCACC	1117
899	GTTGATTACATTGAAGCGATAGACA	875
2162	GTTGCGTTGTTGTGAAGCAGT	2142
133	CCGTAGTCTCTTCAGATGATGGT	111
445	GCTTCTTCTGACGCTCGTGAA	425
124	TTGGCAAGACTCTCCGCATA	105
3439	TGAAGTAGACGCTGGTGATGTAGA	3416
568	GCGTGTCCCTTCAAGAGTATGG	548
731	GCGTGTCCCTTCAAGAGTATGG	711
3844	TGCGTGTCCCTTCAAGAGTATGG	3823
982	TGTGGAGCACATATCGTTGATTC	960
568	GCGTGTCCCTTCAAGAGTATGG	548
1133	TGTGGAGCACATATCGTTGATTC	1111
203	CAGATGCTGATCGCAACACT	184
2880	GCAGATGATTGTTGATTGTGAATACTC	2854
335	TTCTGCCAGTCGCATAAGCC	316
140	TGAGCACACATCATCATGTCTTC	118
130	ATGGAGGCGGAGCTAATGTG	111
676	TGTTCCGATACGATCAGTAGCA	655
206	TGCTATGTTGACAACTGGCATC	185
470	TGTGCCAGTACGAATACATAGGC	448
619	AATTAGATATAATGAGAGCCACACGA	594

550	CGTAGGCGGATTGGTTGATG	531
689	ATTGGTTCTGTATCGGACTCGT	668
520	CGCAACGTGTGTATTGGTCTAG	499
530	GCTGCATAATAAGGAGACATTGACA	506
209	CATCGCAATACTTGCTCAGACA	188
673	AGTAGGCAACGCAGCCGAAT	654
860	CACTCTGTAGGTAGATATCATCGTCAA	834
603	ATGCCAGATGGACTGGAGAA	584
940	GGTTCAGCTCGACGATCAGA	921
946	GGTTCAGCTCGACGATCAGA	927
740	CTCCACACCTTCCACATTCC	721
842	GACGACTGGTGGCTGTAAGAG	822
264	ATTCCTGTAGAACCGATATAGATGATGA	237
255	ATTCCTGTAGAACCGATATAGATGATGA	228
1489	CGCATCGGACATTATCGTAGTTG	1467
1146	AAGTCCTTCGGTACCACACG	1127
251	CGTGTAGGTCATCTTCATCGC	231
251	CGTGTAGGTCATCTTCATCGC	231
743	CCTCCTGTCCTCCATAAGCA	724
746	CCTCCTGTCCTCCATAAGCA	727
744	CCTCCTGTCCTCCATAAGCA	725
818	CCTCCTGTCCTCCATAAGCA	799
402	CACGTTCTTATAGTCGGATGCA	381
1117	CAAGAGGAGGACCAATGAACG	1097
196	CGTGTCCAAGAGGCTGTGTT	177
471	GTCAATGGAGATGAGCCGAA	452
212	ACTGTTCTTGTGTGGTTATGTGATG	188
476	TGACCAGTATTCTCCACGCA	457
6535	GATATGGCGTAAGATGGCTGA	6515
232	ATCGGCTGCTTCATCATCTG	213
110	CGATGTCCTTGTCCACTGAGC	90
130	CGATGTCCTTGTCCACTGAGC	110
2434	AGTGTCTCTGTCCACTCCGTT	2413
533	ACCATCTTCTGCGTCTCTCAA	513
534	GAGAATAGAGCAATCGTCGCCTT	512
374	TTGCCACGGTTCAGACCATT	355
126	GGAAGATTATGGTCGGATGAAC	105
137	GGTCGCTTCTCATCTCGCAT	118
1908	GGACCAGACATCACAAGAACG	1888
1890	GGACCAGACATCACAAGAACG	1870
1829	GGACCAGACATCACAAGAACG	1809
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206 GCAATAATAGCGTCGGTGTCTT	185
616 TTGAAGACCAGATTATTGTAGCCA	593
889 TGATGCCAATGATGAATGCG	870
1895 CGTTCGTGGAGTAGGTAGAGCA	1874
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159 GATCACTGCTTCACGTTGGC	140
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1078 TTGACGGATACGTGGCAGTT	1059
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142 GACGCCTCTGAAGTTGTAGTGC	121
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710 GACCGTTATTGGCTTGACATTG	689
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5032 GGTCTCTAATTGACATCTGGTACTCC	5007
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493 GCAGGTGGTAAGGAGAGTGACA	472
237 TGGACTCATGTTGGATTCAAC	217
298 TCACCAACTCCTTCGTAGCG	279
629 GGCGGAAGTATGCATTGAGAC	609
628 CATTGCTCACAGTTACAGTACTCCATA	602
248 GGTCGCTCATTCTCTTCTCG	228
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242	GGTCGCTCATTCTCTTCTCG	222
313	TTGTATTCCGATAGGTCCACTGT	291
308	TTGTATTCCGATAGGTCCACTGT	286
713	CGTATAAGTTGAGAACTTCAGTTGGA	688
615	AATGTTGGCACAGATGAGGAAGA	593
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285	CACATCAGATTCCATTCCACAA	264
120	CATGAGAATCGTCTCTGCTGAGT	98
355	CGGTTAGAATGAATGTGGAGCA	334
287	CACCTCCTTCGTTGGCATCA	268
169	GCTCGCAGCTTATCACTATCAATC	146
132	GCAGCAGCTTGAGTCAACATTG	111
137	TGCCAGCCTAATTCAATGTTC	117
129	TGTGGATGTAGCTGTTCGTGA	109
151	AAGCCTCTCAATGTGTCAGCAG	130
150	CCAGATGAGCACATCCTCCA	131
121	GATGCTGTCGACGGCTTCAC	102
120	TCCACTGCCACTGAATCTGA	101
136	TTCGTCCACTTAAGCTCCTTCT	115
656	GCTCTTCTTCTTCTTCAACGACTTC	632
582	ACGACTTCTGCGACCTTGGC	563
1326	GCTGGCTCGTTCACTGTTGT	1307
418	TCACACAGTACAAGGCAGCAA	398
420	TCACACAGTACAAGGCAGCAA	400
326	AATGCGGAGTCAAGGATACG	307
121	GTATAGAGGAGCACCGGAAGG	101
1447	ACTTGTAGCAGAAGGCGGTTAC	1426
78	TGAAGATACTGCTAACGATGCG	57
74	TGAAGATACTGCTAACGATGCG	53
90	ACTCCAGTGA CTGATGGAATATAGG	66
119	GCTTCGCAAGTGAATGACAA	100
92	TTCAATAGATGAGCTGATGTCACA	69
1087	GACGATTCGGAGACCAGACA	1068
832	TGAGGCAACAATGACAGCAG	813
850	TGAGGCAACAATGACAGCAG	831
1260	CATTGTTGTCACGGCACAGC	1241
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1271	CATTGTTGTCACGGCACAGC	1252
1165	CACATCGAGCTTCTTGTTGA	1144
286	CACGACGTGTCACGTAGTGAA	266
739	CTACACGTCGTTCTGATGCG	720
493	CTACACGTCGTTCTGATGCG	474
478	CTACACGTCGTTCTGATGCG	459

349	GTCGGATCTTGCTCTTCTCG	330
345	CTTGTGTTCCAGCCAGAGAAGA	324
1272	ATCCAGTTGTTTCGAGTCCGTCT	1251
1249	ATCCAGTTGTTTCGAGTCCGTCT	1228
1257	ATCCAGTTGTTTCGAGTCCGTCT	1236
870	ATCCAGTTGTTTCGAGTCCGTCT	849
162	TCTGGTGTAACATCCATCATTCC	140
618	GCCGTCCTCTTCAGATGCTC	599
247	GGAGACCTGAAGTTATGACGCT	226
290	CCATTGAGTCCATTACAGCCTT	270
302	CCATTGAGTCCATTACAGCCTT	282
1566	GGAGAGATTGATGTGTGTAGGTAGG	1542
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1242	GTTGAATGGAATGCGTTGCC	1223
183	CGAACTGCGATGCTCCTTGT	164
980	CAGTCAATCGACTCAATTCCATC	958
158	GTTCGTGTATTGGCCGTTGG	139
521	TGAACTATGATTCCACAGACGATT	498
864	GGTCACTTCGAGATAATTCAACCA	841
189	GCAAGTTCATTATACACCGCAA	168
614	GCGGACCACATCATTACTGC	595
713	TTCGATGTTGCCTGGCTAAC	694
789	TTCTTGCCAACTGGAACCGT	770
347	GTGAAGAGAATAAGCCAAGAGGTT	324
209	GCATCGCAATCGTCGTCTTG	190
639	TGATGTGATAGATGCGATGGA	619
201	TCTGAGCGATCTCCGTAGCC	182
626	CTCCTTCGTAGATTGGCTCATTG	604
195	TCTGAGCGATCTCCGTAGCC	176
468	TCTGAGCGATCTCCGTAGCC	449
998	CCTTCGTAGATTGGCTCATTG	978
195	CTTACTGCGAGCACGTCGTT	176
522	TTGTGTTAGCGTGCATGTTGT	502
905	GGAGATGGAATTGGTGGCAA	886
899	GGAGATGGAATTGGTGGCAA	880
899	GGAGATGGAATTGGTGGCAA	880
3140	TCATCTGTCAATAACCAATGCG	3119
3128	TCATCTGTCAATAACCAATGCG	3107
3116	TCATCTGTCAATAACCAATGCG	3095
247	ACAGAACATAGAGGCGATTGAGG	225
484	ACAGAACATAGAGGCGATTGAGG	462
105	TGGACAATGCTGATTGATGC	86
136	GCATCAATCAGCATTGTCCA	117
332	GTCAGGAATAGCTGGCGGTT	313

439	AAGACTGCACAATGTATATTCCATG	415
758	AATGCGAGGTAGGAACATGGA	738
383	CACGCCAGTCAACCTCATCT	364
317	CACGCCAGTCAACCTCATCT	298
379	CACGCCAGTCAACCTCATCT	360
1303	TTGACGGCTCCTTGAGATGA	1284
604	GTGTGAAGCGGATGTCGGAA	585
770	TCCATCAGTCCATTGCCATT	751
742	CGACAACGAGTGGAGGAACA	723
816	CGACAACGAGTGGAGGAACA	797
387	CACAGATATTCTCCAAGAACCGT	365
314	TCCAGGCGGTTGATATGATGA	294
609	TGAAGAATCGTGCATTCTGTG	590
322	TCCACTTCTGATCCGACACA	303
573	GTCCACAGAGAGGCATCCAG	554
765	GTCCACAGAGAGGCATCCAG	746
518	CGAGGTGACGGAGTGATGAAC	498
518	CGAGGTGACGGAGTGATGAAC	498
670	ACTTGAGGTCTTGGCACGAA	651
740	TTGTCTGAAGAGCGTTGGATT	721
617	TTGTCTGAAGAGCGTTGGATT	598
2155	AGCAAGACCAAGAGCAATCG	2136
138	GCTTGGTCATTGGCACTCAA	119
1029	CTGACGGATGTGTTGCTTCG	1010
560	TTGTGATGTCTCCACCGAAGA	540
123	TGACGTGGCAAGTTACGGATA	103
755	TGTGTAGACGCAATAGCCAGTT	734
318	TATCATCGTCAGTTCCTTCAGTTCG	294
374	TATCATCGTCAGTTCCTTCAGTTCG	350
850	CGTGGTCCTGAATGTCCTTG	831
317	CATCCTCTTCCAGCATATTCAAC	295
186	TCCGCAGAAGACCAATGAGATG	165
399	AATTGGTAGTGAGAGAGCAAGCA	377
235	CATATGGAATGGTGAGCGTTC	215
270	CAGGATTCCGAGTGGAGACC	251
798	TCTCTGACTTCGATGTATCAACATG	774
266	TGAAGAACTATCATTGAGATGTGGTAT	240
781	GCCACATGACGGATATAATTCCAG	758
781	GCCACATGACGGATATAATTCCAG	758
429	TGCTTGCTCACTTGCTGCTG	410
143	ATTATTGGACACACGAATTGTCAA	120
136	TCTCTCCAGTTCTATATTCCGCTT	113
2331	TGGTCAGCAACACATGGACTT	2311
145	TTCTTCCTGCTTCAAGTTCTTCTCC	121

481	AAGCCAACGGAATGAATGTGT	461
1071	TTCTCGAACCACTACGACTCG	1051
1470	GGACGAAGTAGACAGTGAGCATC	1448
907	GCGTCAGGAAGGTAGTAAGCAGA	885
650	CCTGCGTCTTGTTCTGGTTG	631
151	GCTGGTTGGATGGAATGACG	132
740	CAGTTACCTGTCCATTCTCCTTG	718
1263	CCTCGTTCCGTTGACAGATAG	1243
1248	CCTCGTTCCGTTGACAGATAG	1228
1238	CCTCGTTCCGTTGACAGATAG	1218
279	CCACATATAATCTGCGGTGAATC	257
642	AATGATTGAATTGAGCACCAAGA	620
849	GCCAACGATGTGTAGTTCCAG	829
857	GCCAACGATGTGTAGTTCCAG	837
872	CGGAACAGACCTCCTCGAGT	853
2665	CTGCGAGGATTCCAACCTCA	2646
872	CGGAACAGACCTCCTCGAGT	853
2875	GCGTGGCTTCTTCGTTGCTC	2856
863	ACCACAAGATACGTGGCGAT	844
583	CCTAGTGCTGGAACCATGAAGA	562
297	CAGAGAATTCCAATGATTACGTCTACA	271
191	AACAGTTCGTAGTGAAGTTGGAGTC	167
156	CAGTCATCTTGTGTATCATTGCCA	133
910	AATAGATTACGGTAGTTGGACTTGAAG	884
396	CGAAGCGACAAGGTGACAGG	377
249	CCAGAATATCAGTGGTATGAAGAACA	224
228	TTCTACTCCTCTCGCCTCAATC	207
321	TTCTACTCCTCTCGCCTCAATC	300
176	GTAGACCTCCGATACAGATAACGAA	152
897	GACAGTACTATTATACGAGTTGCCATCA	870
820	CCAGGTAACAAGAATCCACGA	800
171	CATCATCGTCGCTCAGTGTG	152
594	GAGTGGAAGGAGACGGTTGA	575
126	CCTAATTGTATCCGAGCCAGTT	105
493	GCCAATCGCAGATGAAGTTC	474
493	TGAATGTAATAATTAAGACAGGCTTCA	467
825	GTATCCGAATATAGTGCTAGTTGTGAA	799
222	CGCAGAGGAATAGAATCTCACG	201
227	CAGTAATCACATCTCGGACAAGTC	204
392	ATGGACGCATCACAAGCAGT	373
1123	GAGCGAGTCCGTATCAGCATT	1103
888	GAGCGAGTCCGTATCAGCATT	868
312	TGAATAACGGTCTCTCGCTTG	292
605	CTTGTTCTCGTTCAACTTGCC	585

737	CTTGTTCTCGTTCAACTTGCC	717
1127	TCCTTGTTATCCGACATTCCGA	1106
968	TCCTTGTTATCCGACATTCCGA	947
1154	TGTTGGAATCGAGATGGTTGT	1134
796	TGTTGGAATCGAGATGGTTGT	776
1453	CTTCTACGCTTCCGCTCTGT	1434
1522	CTTCTACGCTTCCGCTCTGT	1503
868	GACCTGAGCTTGTTCTGGA	849
820	CAGTCGTTCAATGCTATCCACA	799
792	TGATGAGTTGGAGGACACGA	773
366	ACATTCCACCAACTGGACTCTT	345
234	AACAGTATCGTCGGTGATGGTAT	212
330	AGAATTGTGCAAGCAATCCAA	310
2423	GAGAGTTGGAGCAGGAAGAGG	2403
2445	GAGAGTTGGAGCAGGAAGAGG	2425
2323	GAGAGTTGGAGCAGGAAGAGG	2303
2174	GAGAGTTGGAGCAGGAAGAGG	2154
2023	ATTGCTGTTGTTGCTGAAGGTT	2002
595	CTCTTCCTCGGTGGCGGTAG	576
595	CTCTTCCTCGGTGGCGGTAG	576
745	TCCGAATGTTATCCTGGTATGC	724
819	TCACGCTCCAACCTCGGATAC	800
819	TCACGCTCCAACCTCGGATAC	800
122	GCCACTGTGTCTCTCGCACT	103
132	GCGTGCTAGAGAGCACCATT	113
246	ACGAGAGTCCTGATGAATGTGAT	224
222	TGTTGAATTGAATTGATAGGACGA	199
143	AAGAGCAACTGGCGAAGAGG	124
145	GAATGGCGAGAGAAGAAGAGAGG	123
127	ATACGAAGAACTTGGCAAGAGG	106
141	CATCCATTGTCGGAAGACCA	122
262	CGTCAATGGTGACTGGAGGT	243
128	TCAACATGACGGTCAGCAAGTG	107
136	CCTCTTGCCAAGTTCTTCGTAT	115
421	TGTTCTGAATGGCACTACTTCG	400
313	TGTTCTGAATGGCACTACTTCG	292
148	GGTTGCCGCTCTTGTTGTAG	129
164	GTAGTGGATGTACGGATCACCTC	142
206	TTCTTGTCTGTCAATTCCGTTG	185
185	GTAGTGGATGTACGGATCACCTC	163
1046	ATCCAGACGGAGTACTTGCG	1027
121	CCTCGTCGTCACACATTCTG	102
116	CCTCGTCGTCACACATTCTG	97
1052	ATCCAGACGGAGTACTTGCG	1033

1066 ATCCAGACGGAGTACTTGCG	1047
1046 ATCCAGACGGAGTACTTGCG	1027
1148 ATCCAGACGGAGTACTTGCG	1129
1046 ATCCAGACGGAGTACTTGCG	1027
1059 ATCCAGACGGAGTACTTGCG	1040
127 ACCGAAGCATGATGATACTGC	107
128 GATTGAGGACATGAAGCTCCTT	107
128 GATTGAGGACATGAAGCTCCTT	107
274 CGCTCCTTCATCACTTCAACA	254
157 ATCGGATTCTTCGGATGATG	138
132 CGAGCAGAGAACGAGAATGTC	112
237 GAATGCTCGTTGTGCTGTTGA	217
237 GAATGCTCGTTGTGCTGTTGA	217
900 ATACGAACTGGACACTACTTGCG	878
236 AAGAAGAAGGCGACGACGAC	217
155 TGCTCAGACTCTCTCTCTCTCTC	131
146 GCACGAGTCGAGAAGCTTGTTG	125
340 GGATTGATTGGTGCGGTGAA	321
330 GGATTGATTGGTGCGGTGAA	311
265 ATTGTTCTCCAGTATCCATTGTCA	242
308 GGATTGATTGGTGCGGTGAA	289
1729 AATACGAGATGGCGGAGCAC	1710
1762 AATACGAGATGGCGGAGCAC	1743
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1767 AATACGAGATGGCGGAGCAC	1748
180 TGGCTGATAGACTTCGCAACA	160
180 TGGCTGATAGACTTCGCAACA	160
137 ATCACTGTCGTCGTCGTCGT	118
137 AATGCTAGGTATGGTAGTTGGAGTAGA	111
895 TGCTTGTGTTATTCTCCTCCAT	873
88 TGCTTGTGTTATTCTCCTCCATT	65
901 TGCTTGTGTTATTCTCCTCCA	880
907 TGCTTGTGTTATTCTCCTCCA	886
8793 CGTGGATGGAGTGGATGTTG	8774
121 TGGCGATATTCGGCAATTCC	102
1333 CGCCGTAGAGAGTTGTCAGG	1314
187 GGTACATGGCTTGTTGGAGATG	166
1787 GGTGAAGTGGATGAGTTGCG	1768
1394 GGTGAAGTGGATGAGTTGCG	1375
918 AGTCTTGGCTTCGTCATTGG	899
916 AGTCTTGGCTTCGTCATTGG	897
340 TTGCATTGAATACCGTTGGATT	319
916 AGTCTTGGCTTCGTCATTGG	897
345 CCGAGAGCAACCGATGGATT	326

294	CCGAGAGCAACCGATGGATT	275
184	CGTGGCATCTGGAAGTGGTA	165
146	TCAATTGGTGCTCTTGTTAAGTGA	123
282	CTTGTCTGGTGCTCCGTTGA	263
1974	TGGAGCAGTTCGGTGTCTTG	1955
1012	CGAGAACTGACATTGATAAGAAGACA	987
364	TCTGCTTCATCTGATACTGGAACA	341
245	TCAACAAGATGAGCAACTGATGA	223
138	ACACACTGGCTGTTGTTCTGAC	117
611	GCTCTCCTCTTCTCATCATTGG	590
519	GCAAGCAATGAGGAGCACAA	500
86	CCAGGCTTACGGTAGATAATGG	65
484	TTGGCATAGGAAGGTCAGATTG	463
2305	CGGATAATGGTGTTTCGTTCCG	2286
948	AACTGAAGAAGGTATCCATCCGA	926
519	AACTGAAGAAGGTATCCATCCGA	497
142	ATAACCACCTCCGCCACCTC	123
180	TGGTGGTGGACCATTGTTGT	161
458	TTGTAGGCAGGAGGAGCATT	439
245	GTTGGTTGAGGATTGGAGTGG	225
600	CCAGAACCAAGTGATAGCGATT	579
215	TGCTGCCAATAATGTTCCAAT	195
519	TGATGTATTCTGTCGGCGGTT	500
479	GGAAGAAGACGAGGAAGTAGGTG	457
276	GTTGTATAATGAACTGGTGCGTATG	252
270	ACCACATGCGGAATGTCTCG	251
151	GGAGAACGCGGTAGTGTGTT	132
121	GTCCGTCTCGGTGTGTGTGT	102
223	CGTTAGTTGGCAGTGAAGAGC	203
238	CGTTAGTTGGCAGTGAAGAGC	218
212	CCATCAGATGAGGTGGTCGT	193
3789	CGCTCATCGTGAGTGATTACTACC	3766
3789	CGCTCATCGTGAGTGATTACTACC	3766
3852	CGCTCATCGTGAGTGATTACTACC	3829
3852	CGCTCATCGTGAGTGATTACTACC	3829
772	CCATCTCGAAGATAATTGTTGATAGTG	746
267	AGCCTCCAGAACCAGACGAA	248
558	TGCGAAGCACATTATCTACAACACTAC	534
888	GGACGAGGATCAGAGAGAAGAGT	866
1195	CCATCGTGTACCAATGAAGGA	1175
5558	GATGATTCAGAACGACTTGTTGTATG	5533
731	TGCTGCTGCTGAAGTTGTTGC	711
4503	GATGATTCAGAACGACTTGTTGTATG	4478
5762	GATGATTCAGAACGACTTGTTGTATG	5737

5663	GATGATTCAGAACGACTTGTTGTATG	5638
656	TGCTGCTGCTGAAGTTGTTGC	636
5709	GATGATTCAGAACGACTTGTTGTATG	5684
5709	GATGATTCAGAACGACTTGTTGTATG	5684
656	TGCTGCTGCTGAAGTTGTTGC	636
656	TGCTGCTGCTGAAGTTGTTGC	636
1797	GATGATTCAGAACGACTTGTTGTATG	1772
5879	GATGATTCAGAACGACTTGTTGTATG	5854
6062	GATGATTCAGAACGACTTGTTGTATG	6037
596	TGGTTCTTCGTCTGTTGGCA	577
228	TGTCAAGATGATCTCCTGCTGT	207
439	CGCATAAGAGCATCCAATCG	420
144	GGATTATGTTGAGTCGAGTTGGA	122
521	TGTATCGGTCAAGTGCAATGG	501
463	TGTATCGGTCAAGTGCAATGG	443
376	TGTATCGGTCAAGTGCAATGG	356
101	GAATCCGACAGCTGAGAGG	82
334	TTCGTAGATTATCATCGACACAGTTC	309
546	ATAATCTTCATCTATAATGCCACCAA	521
344	ATAATCTTCATCTATAATGCCACCAA	319
301	ATAATCTTCATCTATAATGCCACCAA	276
277	TGGAGGAAGATGATGATGAAGG	256
288	TGGAGGAAGATGATGATGAAGG	267
350	AAGCACGCCACGAACCTAACG	331
672	TGTGGAGACGAGGTTATGCC	653
793	GGAACGTTGTCTGTTGAGAT	774
318	TTCTGACAACATTCACAATCTGC	296
117	TGCAAGTAGTTCTTCATCTGACAGTT	92
1555	CAGGTAATATTGTCGTTAGAATTGTACA	1528
153	CATACGTTTCAGGCGAGCGTT	134
146	ATCAGAACTGGTGGTATTGGCT	125
149	AGCTCGTCTCTTCTATACTTCGCT	126
121	CTCCACGCCACGTAATAGCC	102
275	TGATGTCCAGCGATGAGCAT	256
186	GCATTCAATCTCCGAGTAGACAT	164
169	CTACCACACACCTGCCGACA	150
1013	GCTGATTGAGATTGATTGTGTGGTA	989
925	GCTGATTGAGATTGATTGTGTGGTA	901
881	GCTGATTGAGATTGATTGTGTGGTA	857
651	GCTGATTGAGATTGATTGTGTGGTA	627
563	GCTGATTGAGATTGATTGTGTGGTA	539
623	ACTGAGCAATTCCGTAATGTCC	602
1019	GCGCAGTGGACGATAGCATT	1000
134	CGATTGCATACGGACCATGT	115

774	CTCGGTCACGTAATCCTTGC	755
450	GCAACCTTCACATCCTTCTGG	430
262	AACACGACGGCTTCATATCATG	241
268	CCAGGCAGTAGACACCAATCC	248
262	GGTATGCACCAAGAGTTGTCAA	241
111	CGAACTGGTGAAGATCCGTT	92
124	ACTGGTGAAGATCCGTTGGC	105
334	AGCACAGCATCAGCATTATCG	314
1275	TCGTTCTCCTGTACCTTGC	1256
170	TCCATTCCAACAGTATTGACCGA	148
795	TGTTATTACAATGACGGCAAGC	774
1403	CTGGACAATTCGTTGTATGAAGAC	1380
1455	CTGGACAATTCGTTGTATGAAGAC	1432
222	GCAGCTCGAATTGGATTCCG	203
1525	CATCTCGTTGGTATTGCTCGTAA	1503
992	GCAGACTTGAAGATTATCCGCTT	970
495	CCTGGTAACAACGCCTGATTC	475
397	GCTTGCCAGTCTTGTTGAACTC	376
493	ATGAGAGTCGGATATGACACAGTGA	469
128	CTGTGTGTATGTAAGCTCCGGTGAT	104
840	GCAGTACAGAACAGGTGTGGTG	819
225	CGGAATCAGTTGGATGCACA	206
454	GGTAACGACAGTAGACGCGATG	433
857	GCAGCAAGGTTGAATCCAAG	838
365	AGTTCCAGTTCAACTTCTTGTGC	343
170	TAGAGAACAGCGCACGATGC	151
1087	GATTGGCGAGTTGGAAGACA	1068
191	ATGGTATTCTGGCACGCAAC	172
422	TCTGTAGCGATGATGGTTCTCC	401
302	CGATAAGACGAATAAGATGAATGACA	277
142	CTACGCTGCTCCAGACACCA	123
124	TTGCTACACAACCGCCACAG	105
382	GGTCATAGTCACCGAGTTCCA	362
419	AGCCTTGGTGATTGTGTTGC	400
1097	TGTGGAATTGACGATATACTGACAA	1073
970	TTGTGTTAATAGTCAATACCACGGAA	945
146	AAGCACACCACAGAAGCAATG	126
155	GATGCGTCAGAGATAGTGTTTCG	134
154	ATGCGTCGGAGATGAAGTTC	135
807	TTGGAAGAACGATCCGAGTG	788
481	TCGTAGTTCGTTTCATCGTGCTG	460
259	ACGAGGAAGTGCTCTGGACGT	239
742	TTGGTGGTGAGGCTTCTTGG	723
470	CGATAGCCTGTCACTCCGTCA	450

900	GGACGAAGACGACGAAGGTT	881
239	TCTGTCATGAATAACACGGAGAA	217
945	TGATTGAGGAGGACTTGTACTTGA	922
822	ATGTTGCTGTCCACCATCCA	803
1214	CAGCGTGAGTGAGAAGTTGGT	1194
289	GCAGTGGATTGGTCTCAATGGTT	267
94	TTGCTACAGAAGAAGTTGTAGAAGTGT	68
443	CCTGCTCTTCTGCTAACAATGG	422
441	CCTGCTCTTCTGCTAACAATGG	420
443	CCTGCTCTTCTGCTAACAATGG	422
537	ATCAACAACCAGCTCTCCGA	518
301	TCTCACTTCCTGCACGAACAG	281
648	TTCTATCTGAGCAACACGACCA	627
183	CGTCTCCGTTCTGTGACCAT	164
2028	TACTCGCTCCTCCTCGTTGT	2009
2028	TACTCGCTCCTCCTCGTTGT	2009
115	TGACCATTGCTGCTTCGTAGAC	94
292	TTGGAGGCAATGAAGCAGAT	273
3146	GATACAGCCAGTCCGAAGAAGA	3125
255	GGACGGTTGTAGTGGTTGCTGA	234
832	ACAACATCTCCTGGCTCACC	813
1009	TCATCTTCTCTTCCACACGCT	989
340	CCTGCTGGAATAGATTCGCA	321
861	GAGTAGAATATAAGGCAGTGATAGCG	836
151	AGTAGAAGAATAAGGCGAAGAGGAT	127
117	CGGATGTGCCAAGTAGTTGTG	97
642	GGTCTCGGTGATCTTCTGTCC	622
695	GGTCTCGGTGATCTTCTGTCC	675
413	GTGGCAGGCTCTTCCGATTC	394
1252	TCCAGGTCCAGAGGTCAGTG	1233
1252	TCCAGGTCCAGAGGTCAGTG	1233
597	GTATGATGTGTAGCGTGGTGGA	576
162	CCTCTCACTTCACCGACATGATTC	139
372	TTGATAACGGCGTTGACCAA	353
311	AATACAACATCCAAGAGACGCA	290
224	AGAATCATTGAGACTATGGCGAA	202
1299	CAGTGATGAAGACACGACGAAC	1278
2434	CGAGAAGTACTGAGACTGAGAAAGTGG	2409
1078	CAGTGATGAAGACACGACGAAC	1057
2213	CGAGAAGTACTGAGACTGAGAAAGTGG	2188
1285	CAGTGATGAAGACACGACGAAC	1264
1152	CAGTGATGAAGACACGACGAAC	1131
1219	CAGTGATGAAGACACGACGAAC	1198
1175	CAGTGATGAAGACACGACGAAC	1154

701	AATCGGCTTCTGATATTATATTCGA	677
146	CCAATGATGATGCAGAGGATAGAC	123
437	TGATGGTCGGTGAGCAGTCTT	417
294	GGCTTGTCTTACAGCTTCCTTC	273
404	CGAACCTCATCGATTCTCTGA	385
813	TGGTAACGCAATGAGGCTTC	794
595	TGAGACCAAGTAGCATGTTGAAGA	572
575	TCGACTAGTACATAATGCTGCCA	553
961	TCCAGTCGAGAGTTGTATCTTGC	939
954	TCCAGTCGAGAGTTGTATCTTGC	932
517	GTTCCGGTATGCAGTCAAGC	498
707	CGAGGAAGAAGAATAGTGATACAGAGG	681
200	AGCCGATGTGAATGAAGAGC	181
794	TCGCCTCTCAATCCTTGTTCT	774
1090	CAAGCATGTCATCGTAGCATTG	1069
213	TGAGTTCCATGCCTGTTGTTT	193
2011	GGAAGTGGCTGAGGTAGTGC	1992
142	TCTGATGGACTATGTTGTACATTGTG	117
256	GAAGAAGTGCGATCTCCGATT	236
563	CTGAACTCTCCGACGCTTGA	544
153	CGTTGCACCTTCTGGATCATTC	132
817	CGAGAAGAGGAGAGACAAGAGC	796
792	TCTGAACAACGTAATCAGTGTCCA	769
1166	TGGAGGAATTGGAGAATGTGA	1146
764	GGATATGTCAGACTCAGATGTGTGA	740
208	CCTATTCTCTTATTGTCCAATTCCAT	183
1660	TGCGAATGGCTGCTACTGTT	1641
1678	TGCGAATGGCTGCTACTGTT	1659
1353	CAGCCTTCGTAAGCGGAGAC	1334
418	CTGGTGGCGATTCTGTCAAG	399
628	CTGGTGGCGATTCTGTCAAG	609
625	AAGTTACCAAGTTCGGCTTGAGA	604
625	AAGTTACCAAGTTCGGCTTGAGA	604
427	ATGGCGGTGGACTTGATAGC	408
1934	GGAGTCATATCAGCAAGAGAACG	1912
941	ACGAGAGTTGGTGGTTGAAGC	921
409	ACCACGAACTCCATCCTCAG	390
645	ATCACTAGTTGTGAACCATTCTGATG	620
117	ATGGCATGTCATGTGACGCT	98
381	TGACTTGGTCAGCGAGTTCA	362
470	GTGATACATATGAAGTAGATCAGTCGGA	443
478	TGAGTAGAACAACACGAGCTCCATAG	453
173	ATTGCTCCTCGTCGTGATGA	154
235	GCAACCATGTGAACCTTAGCA	215

195	GCAACCATGTGAACCTTAGCA	175
177	GCAACCATGTGAACCTTAGCA	157
111	GCAACCATGTGAACCTTAGCA	91
168	GCAACCATGTGAACCTTAGCA	148
133	TCTCCTAGTGCCTCACGGTAA	113
530	TGTCTGCGTCTCTCATCATCAC	509
494	TCACCATCATCCATCCTTCTGT	473
111	TGTGAATTGACGGAGGCTTG	92
202	ACAGCCGTTGATGGAACACC	183
242	ACAGCCGTTGATGGAACACC	223
110	ATCATCGAGGAATTCTACAATCG	88
314	CGCAGTCGGTTGTAGGTAGAAG	293
318	CGCAGTCGGTTGTAGGTAGAAG	297
284	CGCAGTCGGTTGTAGGTAGAAG	263
318	CGCAGTCGGTTGTAGGTAGAAG	297
331	GTGGCGAACTCGTTATTGGT	312
370	GTGGCGAACTCGTTATTGGT	351
685	GGAACTTCGCTGTAGAGCATTG	664
506	GGAACTTCGCTGTAGAGCATTG	485
492	GGAACTTCGCTGTAGAGCATTG	471
1346	TATCCTCGCAGACAGACACG	1327
1346	TATCCTCGCAGACAGACACG	1327
674	TATCCTCGCAGACAGACACG	655
674	TATCCTCGCAGACAGACACG	655
1761	GACAACTCGGCTTCTCGCTT	1742
1755	GACAACTCGGCTTCTCGCTT	1736
1480	TTATGTGTTGTGGTAGTTGATTGCTC	1455
799	CTTGTCCAGCCATTGTCTCG	780
265	ATTCACGCTCCTCTCCATCA	246
780	ATTGTAGGAACGATCAACGATCTCTC	755
756	ATTGTAGGAACGATCAACGATCTCTC	731
1351	TCAGGAAGAAGCAGACTGTAGAGA	1328
1354	TCAGGAAGAAGCAGACTGTAGAGA	1331
1348	TCAGGAAGAAGCAGACTGTAGAGA	1325
617	TAGCGGCACCATCACCATAC	598
614	TAGCGGCACCATCACCATAC	595
951	TAGCGGCACCATCACCATAC	932
644	TAGCGGCACCATCACCATAC	625
571	CAACACGATCAACACGGCAT	552
342	CAACACGATCAACACGGCAT	323
810	GACGAGAGAGGCTTCCACAA	791
905	CGTTCTTCATTATGGTGTTCGG	883
239	ATTGCTGGCTCATCTCGTTC	220
367	GGAACCGAGTCATCCGATTC	348

314	GGAACCGAGTCATCCGATTC	295
274	TCAAGAGCGGATTGAACTGCA	254
274	TCAAGAGCGGATTGAACTGCA	254
300	TCAAGAGCGGATTGAACTGCA	280
1405	TTCATCAGATTCAGAGAGATTCGTT	1381
1418	TTCATCAGATTCAGAGAGATTCGTT	1394
1405	TTCATCAGATTCAGAGAGATTCGTT	1381
1418	TTCATCAGATTCAGAGAGATTCGTT	1394
1405	TTCATCAGATTCAGAGAGATTCGTT	1381
1418	TTCATCAGATTCAGAGAGATTCGTT	1394
226	CTGGAGGTAGATCTGGCATGA	206
615	GATGCCATTGGATATTGCGA	596
583	GATGCCATTGGATATTGCGA	564
615	GATGCCATTGGATATTGCGA	596
203	TGGAATGCCTGAAGATGTTG	183
3459	TTACTTGCGATGTTGCACAGC	3439
821	AGCACAGCAGATTCCTCATTG	801
849	CGCACAAGAGAACAGCAGAA	830
886	CGCACAAGAGAACAGCAGAA	867
1655	GAAGTCATCGAGTGTGAGTGTGTC	1632
1760	GAAGTCATCGAGTGTGAGTGTGTC	1737
494	CCGAACCTGTTATCGTCAGCA	474
1271	TGTTGAACAGCGTCGAATCC	1252
120	CGAGCACACGACAATCAGAG	101
143	TCCAGCCGAGGACAATATGC	124
2465	CAGTGGAGGCGTTCGTTGTG	2446
2460	CAGTGGAGGCGTTCGTTGTG	2441
1725	CAGTGGAGGCGTTCGTTGTG	1706
1725	CAGTGGAGGCGTTCGTTGTG	1706
193	TGACGCATGTTGTAGGAGCA	174
305	ACGAACGCTGATAGGAGACG	286
293	CGAATGGATACAGCGAGTTGG	273
433	ACATTGTTCCGTCCATTCCG	414
1077	ATGCAATGGAGCCAATGGAT	1058
1646	GGTGTGGATGTCTTCTGGTTGG	1625
1836	CCGATAGCAGAGCTGTAAGACTCC	1813
124	CGAACACGATGAAGGCTACAATG	102
822	TGTCCTTACGGCATTGCATT	803
822	TGTCCTTACGGCATTGCATT	803
107	TCTCGCTGCCAATAGTCTTCA	87
314	CTTCTCTTCTACCTCCTTCTTGTC	290
139	GGTTGACGCTTCTCCGATGC	120
983	TCGGCTGCATTATTGAAGATC	963
1083	CAAGCCAGATGTTACGCAGTC	1063

994	GGATACTGACCACCACCAATG	974
720	TACCGTCTGCCTGCTCATTG	701
133	GTAGATACAATGAAGTATGATCGACTGA	106
727	GCCACATGTTCCATACCGCTT	707
727	GCCACATGTTCCATACCGCTT	707
478	AGTCCGTGGCGATGATTGGT	459
575	TGTAGCGTATTGGTATCACTATAAGGA	549
958	TTCAATAGATGACGGTCTGAGTTC	935
208	CCACATTCCTCTGCCGACAT	189
1399	GAGAATGAACATCTTGTGCTTGAC	1376
163	TGATTAGTACATGCTTGGTACATCC	139
909	CCTTCTTCGTGGTGTTACTTGC	888
909	CCTTCTTCGTGGTGTTACTTGC	888
1139	CATCTTCCTCACCACCATCG	1120
118	CTGTGCGAGGAGGTGGTGAA	99
1289	CCTTGTAGACAGTGTGGAGGAA	1267
1270	CCTTGTAGACAGTGTGGAGGAA	1248
1282	CCTTGTAGACAGTGTGGAGGAA	1260
176	AGCAGGATTCTGAAGAGCAGGATAC	152
843	AACCAGGTCGTCGTCCAGAT	824
386	GATGACTCGTTCCTTCGCAA	367
211	TCTCGTTCTCCTTCCTTGGC	192
123	CGTCGCAGGAGAGTATGAACG	103
995	ATTGGTTCTGGAGCGGAGGT	976
995	ATTGGTTCTGGAGCGGAGGT	976
9296	TCTGTCGTAGTTGTCTTGGC	9276
733	CAACTGATGCAAGGATATTCTGA	712
1090	GCTCCACGTCTTCCTCGTAGAC	1069
1149	AGGAGAGAAGAGCCATTGAGC	1129
559	TGGCGATAGGTTCTTGGCAT	540
622	TGGCGATAGGTTCTTGGCAT	603
377	CAAGAATCCACCGGTATTCTG	358
116	CCGTTAGTTGATGCCAGAGC	97
289	CCGTTAGTTGATGCCAGAGC	270
732	GCCACTGCCACTTGCTCCTC	713
1043	GCCACTGCCACTTGCTCCTC	1024
81	AGCGGTAGAGACAGCGAACA	62
88	CAACCTGAGCGTCAGCAAGA	69
144	AACTCCTGGAGCCAATACTGG	124
3211	CAGCATGACCAAGCTGCTCT	3192
113	AAGAATGGTCCGTTGATTGC	94
129	TCTCCTTCTCACACTCCTCCA	109
145	GACGGTCAATTGACACATACAAA	122
4935	GGAGAATATGTGAGGTGATGGTC	4913

2202	GACGGTGGCTTCACTTCTACA	2182
513	GGAGAATATGTGAGGTGATGGTC	491
173	CCATGCTTGTTGCTCGTTGA	154
966	TGACATGCAATACGCTGGTAG	946
108	TTGAGCAGAGGCTCCAGAGAA	88
129	GCAGCCAATTGAGCAGAAGC	110
228	CGCCATAATACAGGTTACTTGGGA	206
921	CGGAGTAGGACACGATTCAAGG	901
657	TGAATCAATCAATGCAATGAGAGTT	633
559	CCTGGTAGTCAATGGCATCTCT	538
142	CTCGCAGACTTCGAGACACTT	122
243	CGTCTCGTCTACTCGTTCTCG	223
252	CGTCTCGTCTACTCGTTCTCG	232
249	CGTCTCGTCTACTCGTTCTCG	229
624	GTCAGGCAGCAGTCGAGGTC	605
985	TCGGCTCCACTTCACTTCCA	966
694	GATAACTGATAGCTATGTTGAATGGATT	667
754	GAGTGAAGCAGGTCAGGAAGAATG	731
458	TCGCACGTTACGGTTATATCG	437
422	TCGCACGTTACGGTTATATCG	401
461	CCATCGCACGTTACGGTTA	442
154	TTGCGTTCACTAATTGTTGTGG	133
144	TTCACCTCACTTCGTCCTGTCAA	123
125	TGGATATTGAATGTTGGCACTAGA	102
124	GGAGGAGATGAATAGAGCATTGAC	101
232	AGGAATGAGTGAGAGACAGATGG	210
147	TGTGACAACGATGCTCTTAACTCT	124
519	GCCTCCGTTGTAATGTGTGG	500
497	GCCTCCGTTGTAATGTGTGG	478
2841	TTCGGTGTGCTCCAGTGCTT	2822
2850	TTCGGTGTGCTCCAGTGCTT	2831
348	CGCTATCACACCTTCAACATTACAG	324
152	GAACACATTGCCGATTGACA	133
905	ATGGCAAGTGGAAGGCATAG	886
261	CGAAGCTACTGTAGAACGTCGGA	239
892	GGCATAGATTGCGATAGGTCA	872
484	CCAGCATTGTTATTATCTCACAGGTT	459
400	CCAGCATTGTTATTATCTCACAGGTT	375
321	CCACTCTCAACTTGTCTCGGT	300
595	GCAGCATTGTTGGTTCCTTG	576
400	TCAACTCCGACAGCAACTCC	381
372	TCAACTCCGACAGCAACTCC	353
793	TGAAGATCACAATCACTGTTGCC	771
209	CTCACGGAGCACAACTTCGG	190

145	GCCTAGCGTACACTGAGAAGTCG	123
177	ACTGGTCGGACTCCTTGTCTT	157
130	GATGCTCTACACTGCCGTCA	111
241	ACCAGCACCACCACCGACTT	222
789	TGTTGAGCATTATTGAGCATCTTC	766
655	TGTTGAGCATTATTGAGCATCTTC	632
791	TGGTCACAATCACATCCGAA	772
179	CGTTCGTCCATTAGGTGAGC	160
367	CCACAACATCATCCTATTCTTCATTC	342
670	ACCGCATTACGATACCAAC	651
398	CGAGAAGGACAAGGAATGCC	379
342	CTCTCCATCATTCCAACCTCAGC	320
462	GTCGACTTCCATGGCCTCTG	443
225	CTCTGGTGGTTCCTCCTTCG	206
225	CTCTGGTGGTTCCTCCTTCG	206
225	CTCTGGTGGTTCCTCCTTCG	206
418	GCGAAGATGAGGAGGAGGAA	399
1683	GACAACTCGTAGGCGACTCTCA	1662
336	TTGCTTGCGTCCTGGCTTCT	317
336	TTGCTTGCGTCCTGGCTTCT	317
91	GATTCTGTGAGACGGCGTTC	72
470	CCAGCATCTCGTATCGCCTT	451
182	CCTGATGTTGAAGTCGTGGAG	162
116	GGATCACTAATTATAGCTCGTGGATGA	90
112	TGCAAGGATTCTGTTCTTATTCTGTACA	85
786	GTAGCTGATCGCATGATTAGTGAA	763
1028	GAACAGGAGATCACGAGCCA	1009
1148	CACGACGAGAGATATCGACTGA	1127
1627	TGATGTGGATGACGATGGAA	1608
885	CACGACGAGAGATATCGACTGA	864
1364	TGATGTGGATGACGATGGAA	1345
2006	CATCAACATCATCGGTATCAGC	1985
130	CGACACAGCGTTCATGGTCA	111
704	CGACTCAACACGATCATTCCTG	682
750	CAATGGTGTACGGTCCTCAA	730
750	CAATGGTGTACGGTCCTCAA	730
809	CAATGGTGTACGGTCCTCAA	789
750	CAATGGTGTACGGTCCTCAA	730
809	CAATGGTGTACGGTCCTCAA	789
92	GCAATGACGACTGTGTGTAACC	71
229	TTGTCTCATTATCATCAGCAGGA	207
902	TTCTCACGGTCCAAGTCATTC	882
336	TTGATAATATGGACTGCCGACA	315
607	CTCCTGCTTCTCGTGTGCCT	588

136	CTGATGATGGTCCACTTCGTT	116
896	AGTATAATTGCCAATGGATCGC	875
912	GTACATTGTGACTGTGCATATAAGGA	887
198	CACCATTAGCATCGGTATAACCTTG	174
669	ATGTTCTCCAGCACCTTCC	650
698	ATTAGAAGATCGGTAAGATTGCCA	675
87	ATGATCGGCAATGATTCGTT	68
2736	CTCCTTCTCCGTCTCCTTCAC	2716
1171	GAAGTCGTGTGGAAGTCGTTGC	1150
1493	GCTATCGTCGCTTCTCGTGA	1474
1178	GCCAATTGTTCTCCGAGAG	1159
494	GCTGACCAGCTATGCGATGA	475
1540	GCTATCGTCGCTTCTCGTGA	1521
296	CACGTACGAGTTGGCGACCA	277
555	CAGCTTGATTACTGCGTCGTT	535
747	CCTCATCCTTATCCTCAACCG	727
747	CCTCATCCTTATCCTCAACCG	727
714	CCTCATCCTTATCCTCAACCG	694
714	CCTCATCCTTATCCTCAACCG	694
308	CATCATCTCCAACCTTCTCTCCAC	285
206	ATTGAGGCGAGCTTGTCATC	187
372	GAAGCGTTGTTGGACTCTGAA	352
118	GAACTTCTGGATTGGCGTCTT	98
128	GAACTTCTGGATTGGCGTCTT	108
719	GCTTCTGCTCGTTCGTAGTCC	699
181	TCCGTAGGATGGTTGTTGGT	162
126	TCCGTAGGATGGTTGTTGGT	107
136	TCCGTAGGATGGTTGTTGGT	117
348	GCACCGTCATAGTTGTCCAGT	328
348	GCACCGTCATAGTTGTCCAGT	328
89	AACAAGTCACATGAATTGCATAAGTAC	63
89	AACAAGTCACAAGAGTTGCACAA	67
89	AACAAGTCACAAGAGTTGCACAA	67
848	CGTTATCAAGCAATAGTGAAGCA	826
652	CAGGAGTAACGGCGAGTGACG	632
976	TGTATGTGGCGAATGTGGAGT	956
987	CACAATTATGGATCGGTAGATATTGC	962
224	CATGTCCTCGAAGCCTTCCA	205
148	CCTCCGTCATTCTACTGCGA	129
886	TGTCAGTTCGCCGTCGTTCT	867
720	CGCCATAACACGCAACAATC	701
348	CGCCATAACACGCAACAATC	329
903	CGACGAATGGTGACTTGAATC	883
799	CGACGAATGGTGACTTGAATC	779

351	GTCATCAGCACAGCAGCAGA	332
241	CGTCCGTCGAGTTCTCCATA	222
335	GGAGAAGATATTGTTGGTACACTCG	311
126	TGTGTTGCATCTCAGAGCAGAG	105
250	CTCATCACGACTTGGCGGTA	231
628	CTCCAGCAATAATACGGTGACA	607
299	TCGTCGGAAGAAGGAGGAAT	280
1235	CATCTGTACTCGGATGAGAGGTGA	1212
416	CGTCCGACAATGATGACTGG	397
762	ACTGCTTGATATTCGTCGGAA	742
2794	TGGCAGAGAATCCGTAGTTGG	2774
2703	TGGCAGAGAATCCGTAGTTGG	2683
1252	AACCACACGGAGCACATTCG	1233
1298	AACCACACGGAGCACATTCG	1279
668	GTGAACTCGCACCTTCTTGG	649
704	GTGAACTCGCACCTTCTTGG	685
641	TCGAGAATAGATGAATACGAGTGC	618
805	TGTTTCATCATATCGCCGTGT	786
1005	TGTTTCATCATATCGCCGTGT	986
858	TGTTTCATCATATCGCCGTGT	839
886	TGTTTCATCATATCGCCGTGT	867
192	AGCAGCATTGGTAGCAGCAT	173
2607	AATGACGGATGAGGCGACAG	2588
340	TGGTTGTGATTGTCCTGGCA	321
257	GGTTGTGATTGTCCTGGCAT	238
240	TGGTTGTGATTGTCCTGGCA	221
1034	AATGACGGATGAGGCGACAG	1015
1095	AATGACGGATGAGGCGACAG	1076
255	GAAGCACGTTCCATTGTATATCC	233
161	CTCACCACCAGTAGCAACCAC	141
283	TCACGAGCAACCATTGGAGGT	263
398	CGGATTGAAGTGAGGAACAGC	378
351	AGCGAGAACAGTGGATGGCT	332
400	AGCGAGAACAGTGGATGGCT	381
948	CGGAGAAGTCCATAACTCGCA	928
399	GAACTGAACATCATCGTACATCTGA	375
434	CCGATGAGTCCGTTGATAAGC	414
434	CCGATGAGTCCGTTGATAAGC	414
434	CCGATGAGTCCGTTGATAAGC	414
131	CCTCCGCGACCTACACTCTT	112
155	TTCTTGGTTGATGGCACGGA	136
1434	TGAGTCAGCGGCAAGAGCAC	1415
1335	TGAGTCAGCGGCAAGAGCAC	1316
290	TACGGAGCGTGTCCACATTC	271

936	TCTCGTCGGAGCTTGATACCA	916
982	TCTCGTCGGAGCTTGATACCA	962
534	GCCGAACACAATCAGTCACC	515
478	GCTCCTTATCCGTCCAACATG	458
378	TGGTTCTGTGACTGTGAATAGCA	356
1024	TTGTTGACGCAGCCTTCTTC	1005
761	CCACATACAGGAAGAGCTTACACA	738
832	AATTACTGAATAACCTGATTCCAGCT	807
715	TGATACGAAGATAGGTTGTGACGATT	690
715	TGATACGAAGATAGGTTGTGACGATT	690
315	TGTTGAGTCGTGCGGTTCTG	296
1609	CGATGATGGAAGAATGTGCTC	1589
458	GACTGTCCAGATGATACAATCGG	436
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648	GATTAGTGGAGGCAGTTGGTTC	627
535	GATTAGTGGAGGCAGTTGGTTC	514
310	CGATGGACCGTGAAGTATGG	291
543	ATTCCAGTGTTTCATTGCGTCTA	522
1196	AGATGACGCCAGCGAGAATC	1177
169	TGGATAGCTTCATATCCACGGT	148
887	CAAGTATCCAGTGGTATTGGTTGG	864
887	CAAGTATCCAGTGGTATTGGTTGG	864
733	CAACGATAATAACACATGAGACACAA	708
724	CAACGATAATAACACATGAGACACAA	699
522	TTGTTCTTGCCAGCCAGAG	503
1842	CTGGCGGAGTTGGAGATGAG	1823
148	AGTTACTGAGCAGACATCGGAAG	126
137	TGAGTTGATGATGCCGAGTCT	117
220	CCAGAGCAAGGACATCAAGG	201
268	AATTATTGATGCAGTAGAGACCTAACC	242
600	TGGCGACATCAAGTTCACAG	581
159	AGTCCAAGTTGTCGGTGCTG	140
873	ATACTCATCGCCAACTACTTCCTT	850
516	ACACGTATTGGCTGCTATTGC	496
465	ACACGTATTGGCTGCTATTGC	445
1071	AGCAACACACATTGAGTATCGG	1050
237	CACACGGCGGAGAGAGCTAG	218
320	CAGCATCCTCCTTGGTGTCC	301
1699	AAGAAGTCACCGTCACAGTCATC	1677
651	TCAGCATCAAGGTCATACTCTCC	629
192	ACAAGCATGATACTCGAGCAACT	170
141	ACTTGTCATCGCTCAATCGC	122
249	GAATCCGCAGTGCTCAGAGTAC	228
2821	GCAGGTGTAGCATACTTGTGAGC	2799

2775	GCAGGTGTAGCATACTTGTGAGC	2753
2809	GCAGGTGTAGCATACTTGTGAGC	2787
2809	GCAGGTGTAGCATACTTGTGAGC	2787
2785	GCAGGTGTAGCATACTTGTGAGC	2763
2739	GCAGGTGTAGCATACTTGTGAGC	2717
2609	GCAGGTGTAGCATACTTGTGAGC	2587
2689	GCAGGTGTAGCATACTTGTGAGC	2667
2725	GCAGGTGTAGCATACTTGTGAGC	2703
1559	GCAGGTGTAGCATACTTGTGAGC	1537
2818	GCAGGTGTAGCATACTTGTGAGC	2796
2772	GCAGGTGTAGCATACTTGTGAGC	2750
1097	TGGTGACGAAGGTGACGAGA	1078
552	AGAGTGGATCGCAATCTTGG	533
506	AGAGTGGATCGCAATCTTGG	487
1425	AACACACTGACTCCATAGGCTGA	1403
1820	GAGTATGGTGTTGATTCAAGTTCGT	1796
335	GCAGCTACAATACAATACACCGAA	312
2746	CTATTGAGCTTGGCGGCATT	2727
3909	TAGGCGGCAATAAGAGCATC	3890
274	TCCTTCATCTAATAGCACATCAAGA	250
353	TCATCAGTTGTTCTTCATCTAATAGC	327
204	TCGTATTGGTCAAGAGCCTGT	184
4018	CGACGGACGATAGTGCCAAT	3999
251	TGTGGTGACTTCGGACTTCG	232
666	TGAGGATTGAGGTGGAGGTG	647
197	CGAATGGAATGCTGTGGAAT	178
218	GATCGCATTCTCTGGTTCCG	199
248	GATCGCATTCTCTGGTTCCG	229
1485	AGGTGGAAGTGAGAAGTGGCT	1465
886	GTCCGTTCTTGGCGTTGTTG	867
1233	TACTCCGACTCCTCCGAATG	1214
308	GGAATAGTTGAGACTTAGATCGTGTTT	282
310	GGAATAGTTGAGACTTAGATCGTGTTT	284
195	CCATGAGAATGCTACCTCTGAGA	173
1158	ACCAGAAGTGAGAACCTTGAGC	1137
253	CGCTCACGCTCCTCTTCTTG	234
1433	TGAGGCAATAGGATGATGGC	1414
127	TTGTATTGCACATCGACTGGA	107
158	AGCAGGTCTCTGGTTCAATCC	138
241	TTCGCCAGTGTGTAGTGTTCA	221
241	TTCGCCAGTGTGTAGTGTTCA	221
765	GATTCCTGACCTTCCACTTGC	745
211	TCACCAGCCTGAAGCCAAT	192
562	GAGCGTCGTCGTCTGGAGTG	543

567	GAGCGTCGTCGTCTGGAGTG	548
756	GAGCGTCGTCGTCTGGAGTG	737
88	CGCTGATGGTCGGTAGGATC	69
270	GGCTGGTTGAAGATTGGTTG	251
539	GAGCGTCGTCGTCTGGAGTG	520
476	CGCATATTCTACAGCCAGAGTTC	454
203	GCCGACTGTGAGAAGAGACGA	183
142	GCCGACTGTGAGAAGAGACGA	122
203	GCCGACTGTGAGAAGAGACGA	183
175	TTCACGAATATCATGACGAGACA	153
1273	TGTGTAGCGTCGAGAGTCTCAT	1252
1095	TGTGTAGCGTCGAGAGTCTCAT	1074
1262	TGTGTAGCGTCGAGAGTCTCAT	1241
157	ATCCTGGCTTGTTGGTCCTCTT	136
1004	ACTGAAGTAGAATAGTGAAGTGTGCA	978
1839	ATACCAGTGATACCGCCAGTG	1819
800	GGCATGAAGAACAAGAAGATTGG	778
313	CCATTCCACAGCATCCACAA	294
201	TAATCACATCGTCTGGTTGGTC	180
810	TTGCCTTCACATCTTCTCCGTT	788
1804	TCCGACATAGTGAGTAGTGAGAGTTC	1779
553	TTGGTTCATATCTTCTAGAACTTGATCA	526
608	TTCTTGGCCTCCTTAGTAACAGTT	583
553	ATTGGCGAATGAGCAACATAC	533
142	ATTCCTCAGCGGCTTCTTGC	123
200	ACCTCAACGTGCATTCCAAT	181
274	AGCTGCTCCGTTGACAGGAA	255
151	GATGGAGCACACAACGGATT	132
1099	GTACGCATCCGAGGCTCCAA	1080
599	GCCGAGCTCTCGAATTCCTT	580
1362	TTGTCTTCTCGATCCTTATCCG	1341
1518	CGTGTTACATTGTAAGTACCAC	1495
182	TCAGTGAGCAGTGAGAACCAGA	161
136	TGTCCACTGCTGCTCTCAAG	117
715	CAACACAACGACGACTTCCA	696
509	AAGGACGATGACGATTGGTG	490
509	AAGGACGATGACGATTGGTG	490
135	AGCATACCACTTCGCCATCG	116
1266	ATTGTGAGTCGTCTGCTGCTT	1246
928	AGCAGATTGTGATTCTTCGGA	908
996	AGCAGATTGTGATTCTTCGGA	976
769	AGCAGATTGTGATTCTTCGGA	749
996	AGCAGATTGTGATTCTTCGGA	976
996	AGCAGATTGTGATTCTTCGGA	976

107	TCAATCGTTCTTCATCATCCG	87
825	GAACACAACGATGGAGAGTAGAACA	801
527	TCAATCCATTCTTCAACGCAA	507
942	ATGAACTGGACGGCTTGGTG	923
968	ATGAACTGGACGGCTTGGTG	949
490	AGATAAGAAGCCGAATGCCA	471
801	GTACATAGCAATGGTTGGCGTT	780
422	GCACGCTCGATATCATACCAC	402
225	TCGGTCGATGAACATACACATC	204
600	CCAGCGGATGAATGTGTCTG	581
377	CGGACCAAGTAGTTGTAACGATT	355
345	CATTATCATGGCAGGAATTGTGA	323
327	GCAGCACGTTCTGTTGAGCAG	308
938	GACATCAGTTCTCGTATGGTCTCA	915
725	ACTCGTTCGGCGTTCGTCTT	706
1024	CCATAGTTGATAGTAGGTGGAGGAA	1000
265	AACGGAGCAGCAGGAGATCC	246
609	GCACACTTCACAGGAATCGTTG	588
250	AACAGAGCAGTTGTCGAGCAC	230
199	TTCTCCACAGTGGATACAAGGTC	177
841	GAGAGCATTCCAACCAAGTAAGG	819
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841	GAGAGCATTCCAACCAAGTAAGG	819
589	TTGGTTGGCTGGCTTCACTT	570
408	GCACAATGACCAGGTATAAGTGAA	385
1699	CGAGTTGTTCAGTGGAGGAGA	1679
2213	CGAGTTGTTCAGTGGAGGAGA	2193
2622	CGAGTTGTTCAGTGGAGGAGA	2602
336	CCTGATGATGAAGCCGATGT	317
216	GTCTCTGCGGTTCTTGGCTT	197
573	CGGCTGATCTTCTTCCAA	554
1302	CAATGTGAAGGCAGTGAATGAC	1281
1067	AGTCGGTGAGTTCGGAGAGAGTT	1045
923	AGTCGGTGAGTTCGGAGAGAGTT	901
348	GGTAATAAGTTGAATCCGTCCAGT	325
254	GGTAATAAGTTGAATCCGTCCAGT	231
848	AGTCGGTGAGTTCGGAGAGAGTT	826
348	GGTAATAAGTTGAATCCGTCCAGT	325
254	GGTAATAAGTTGAATCCGTCCAGT	231
1073	AGTCGGTGAGTTCGGAGAGAGTT	1051
923	AGTCGGTGAGTTCGGAGAGAGTT	901
848	AGTCGGTGAGTTCGGAGAGAGTT	826
186	TTGATGTAGCGGATGACTTCG	166
3221	TGTTAGGTCTTCCGTCCATCG	3201

116	TGCCTTCTCCGTGTTACCAT	97
1853	CGAGACGTTGAATCAGATCCA	1833
1919	CGAGACGTTGAATCAGATCCA	1899
676	AAGTCCACCGACCAGCAATG	657
110	GATAGAAGCGATGAGCAGGAGTC	88
1732	GCACAGCCTTCTTCATCGTAA	1712
1732	GCACAGCCTTCTTCATCGTAA	1712
237	CGTTACAGCAGCTACAGCACA	217
148	TGGCTGACTTGACGAAGGATT	128
387	ACATATTCAGCTTGATCTACAAGATGA	361
387	ACATATTCAGCTTGATCTACAAGATGA	361
1174	TTGTGTTGGAAGTGTCAAGAGA	1152
435	GGACGGATACGGTAGAATACACG	413
114	TGTCTCAATGTGTGTCTCCAGAA	92
1380	TGGCATCTTCGTTGTATGAACA	1359
492	CGGAACTGCGACAAGATGGT	473
263	TTCTTACGATGACGCAACCA	244
143	TCTCCTCTCCTCTTCACGCTCT	122
178	TCTCCTCTCCTCTTCACGCTCT	157
136	AGCATACTGATGCCTGTAATTGG	114
1133	GAGGAGATACTTGGCGAGAGC	1113
161	CGCGAGTGTGAGTTAGATCGA	141
189	TCTTCTTCAGTCATCTTGAGGTTG	166
213	TCTTCTTCAGTCATCTTGAGGTTG	190
555	CCACGACGAACTACGACATCA	535
555	CCACGACGAACTACGACATCA	535
885	GCCGTTCTCAATCCAGCGTT	866
878	GCCGTTCTCAATCCAGCGTT	859
617	CGAAGGATCAGAGGTGCCAA	598
374	AGCTCACGAGATGGCATTGC	355
134	TCCGATGATGGTGCTGAGAC	115
135	CGAGTAGGTCTGACGCTGGA	116
145	TGACAAGTGACCACAGAACGA	125
836	CCTGTATTGCGTGATGCTTCT	816
789	CGTCAGCAATAGCGAGTCCT	770
614	GCTGAGTCATTGGCTTCTACG	594
135	AATTACCGGCTATTCTTCGTACTCT	111
1232	TCTTGTAATTGATCGTTGTTGTAGG	1208
475	AGGACGCAGGAGAGAGAAGC	456
287	GTGTCTGCTCCATTCTGCTTG	267
1347	CCAAGCAAGAGGTCCATCAGTG	1326
1042	TGAAGTGTATCATTCGGAGTGAGA	1019
216	CATGGCATAGTCGAGTGGTATG	195
534	ACTTGTGTTGCCGATTGCGA	515

1257	AGGTCTAATAACTGGTGGTGATGTC	1233
178	GCATTCCATGAGCTTCCAGA	159
320	CGAGTCAGACCGTAGTCCAAG	300
935	GAGCAACAGCACAAACGATGA	916
353	TGATAGGAAGTATTCACACGTAGGTC	328
337	GCAGCCATTCGTTAGGTCTCT	317
290	CATCTTGCCATGTACGAGGAT	270
839	TCATCAGCAAGGTAGCCAGTG	819
226	TTGGTAGCCTAAGAGCAGAAGC	205
235	CGCCGTCTTCTATTACAATCCAA	213
478	TTGGCATTGTAGGAGAGGCA	459
435	GCCGCAATCGTAACATCTGTT	415
554	AGGTGGTAGGAGAGTGATGTGG	533
1230	TCCAGGCACCTCAAGTCCAT	1211
354	TCCAGTGAGTGATTGAAGATAAGG	331
1242	GAGATCAGTCATGTGCCAGTAGG	1220
1137	AACGGAATGCATATCGAAGTG	1117
672	GCGGAGGCAGTTGAGATGTG	653
1480	TTCGCCAACTCATCGCTCAT	1461
1195	TTCGCCAACTCATCGCTCAT	1176
1760	TTCGCCAACTCATCGCTCAT	1741
800	TTCGCCAACTCATCGCTCAT	781
611	TTCGCCAACTCATCGCTCAT	592
1161	TTCGCCAACTCATCGCTCAT	1142
862	TTCGCCAACTCATCGCTCAT	843
169	AATGAGAAGGCATGAATGGC	150
464	AGTTGGAAGCATCATCGGAA	445
975	GAAGAATGAGAAGCACGGAGTAGC	952
962	TTACCGATAAGCCTCGTCAGC	942
880	TTACCGATAAGCCTCGTCAGC	860
443	TGGAGCACGATGAGGTAGGA	424
1004	GCGTAGGAAGCTGTACACC	985
1021	GCGATGTATCCGATGAGGTC	1002
1036	GCGATGTATCCGATGAGGTC	1017
142	AATTCGCTCGGATCTTCGTT	123
196	TGGAATCGGTGAATGAGTAGCC	175
164	GCTCTCTGGAGAATCCGTTGTCA	142
240	TCCTTCCAACGATAGATGTCCT	219
212	CGTGAGGAGTTGAGAAGAGTGC	191
1127	GCAAGCTCCGTAGATCGGTT	1108
719	TCGTTCAATTCATGTAGTGGACTT	696
174	TCTAGATCAGCGCTTGTAGTGG	153
323	TCTAGATCAGCGCTTGTAGTGG	302
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790 CCAGCACATTCAGAACAATCTG	769
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4145 AAGAGGACCATCAGCGAGCA	4126
161 TTGCTTCGGTCAAGTGTGAA	142
156 AGAGCATCCGGCAGAGGATA	137
156 TTCCTTCGAGCTTCTCCACAA	136
134 CGATGATCAGCACATGACAGA	114
934 CGCATGAACAGCTTGGAATG	915
560 ATTGAGTCGGCGTAGAGTCG	541
426 TGAGATCATTATTAGTCCAGTCGCT	402
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762 GCCAAGTGTCAACCAGCAAT	743
404 AAGTGGCAGAGATTCACGGAT	384
1592 CTGTTCGGTGAGCATCAATG	1573
518 TCGTATGACTCCGCTGATGC	499
209 GATGGCGACATCTTGGTTCC	190
264 GTTCAGATTCGGTGAGAAGAGG	243
735 AACAATCCATCTCCACCAACA	715
96 CACCTCCAGCACCTCCATAG	77
316 TCTCCGACATCTCAGTTATCTCAA	293
722 CAGCACACTCGTTGAATAAGTTG	700
324 AGTGATAACATGGTGGACAGAGG	302
324 AGTGATAACATGGTGGACAGAGG	302
520 AAGTGTGATGAGAAGGTCGTTGA	498
409 AAGTGTGATGAGAAGGTCGTTGA	387
799 ATGTAAGATGGAACAGCGGATT	778
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621 GACTGACGAGGAGGAGGAATC	601
1505 ACTTCATTGTTGCCGCCATT	1486
726 GCTCTCACCGTCATCATCCG	707
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675 GAAGCCAGCATAACTGAACGC	655
675 GAAGCCAGCATAACTGAACGC	655
613 GCTGTGCATCGTATTGGCTCA	593
573 CGACGAGGTAGTTGGATGCT	554
293 GCATTACCAGCAGCCTCCAA	274
224 TCAACACCTTCGGTAATTCCAT	203
123 GCCAGTCTGAATCGAACATGTTC	101
248 CGACTCCTTCAGTAATACCATATATTGG	221
1210 CGTTGATTGTTGTCTCTCGCA	1190
1340 GAGAGGTATGCTTGTTGAGGAGTT	1317
1343 GCTTGTTTCGTCTCCAGATTCC	1323
278 CGCTGAGTGCCATCTGTGTATC	257

1276	GATCAGTATGAAGTGTCCAAGTATCAAC	1249
189	TGGCTTCCGATATAAGTGACG	169
1081	TTCCGTCACCTCTTGTCACG	1062
458	AATAGTCCTACGAATAGAGGTACGGT	433
232	TGGCGTGCTCACAGTAGGTG	213
1035	AAGAGTTGGCTTGCAGTAGGAA	1014
872	TTGTTGAAGGCGAAGACGACTAC	850
151	GAACAGAGACTCCGATGAAGCC	130
249	GAAGAAGCAGAGTCACGAGCAC	228
143	GTTGCTCAGCCAATCCGCTT	124
132	GTTGCTCAGCCAATCCGCTT	113
644	TGGCTCACCGTGGAAGTTGT	625
706	TGGCTCACCGTGGAAGTTGT	687
123	GTTGCTCAGCCAATCCGCTT	104
718	CACCGTGGAAGTTGTGATGG	699
666	CACCGTGGAAGTTGTGATGG	647
728	CACCGTGGAAGTTGTGATGG	709
709	CACCGTGGAAGTTGTGATGG	690
729	CACCGTGGAAGTTGTGATGG	710
175	GGATCAACATGCACATTCTATTCG	152
754	GAACGCACGAGTCATCCAAT	735
347	GCGATTGCTTGGTGTCTCCT	328
1134	CTACTGAAGCCTGTAAGATACGCA	1111
198	AGTTAGCCACGTCCAATAGCC	178
842	CAGATTGCTAGGCAGAATTGG	822
250	CCTTGATACAACAGTGCTCCGA	229
279	GGAGTGTGTAGTTGCTATCATCATTG	254
185	TTGAATAATAATTGATTCTGCTGGTAA	159
397	CGAACAGGAACAGCATTGAGACA	375
586	CCATAGCCAAGCTGAGTTAGTCTC	563
813	TCCGTAGATCCTCCGACTCC	794
161	CACGTCACGTTCTAACACATC	140
846	GCAAGCGACCATTAGGAACA	827
558	GACGTTGTAGTCTCGGTAGATCACG	534
143	AAGACAAGGCGCATCGTCTT	124
135	TTAGTATCTCAGCCGCTCCTTC	114
157	TGTAATCACATGCTTCTTCCGT	136
320	CAGCATCCTCCTTGGTGTCC	301
430	TTAGTGGAATCGCAACAAGGT	410
595	ACTGGAAGAAGTATGCGTTGCT	574
144	GGATTGCATGTGTTGCATGT	125
448	GACGACCATCAGGACCATTAGTTC	425
446	AGGATGTTGCGGATGTGGAA	427
742	ATAGGTTGCTGTGGTGATAGTAGAGAT	716

969	GGTCAGGTTGGACATGTGTGA	949
192	GAAGACAATATCATTACTCAGTTCATCG	165
1646	CAGCGGATGGTAGTAGCAGAC	1626
1727	CAGCGGATGGTAGTAGCAGAC	1707
731	CCTCATCATTCCGTTCTGTTG	712
165	CACAAGCAACAATCCAAGAAGA	144
1117	CCATACTCCATACATATCGTACACTTCA	1090
525	CCATACTCCATACATATCGTACACTTCA	498
652	TATAATTCGTCGGTGTCGCTT	632
800	TTCCGATACGACCAGCATT	781
1307	CGTCCATCAATACCAACCTTCA	1286
1220	CGTCCATCAATACCAACCTTCA	1199
323	AGTAACCATAGGCAGTGAAGAGAAC	299
393	AGCATTGGCTCTCACAGGTG	374
937	AAGCGGAGAGAATGTAATCACC	916
223	CTGTGTTGGTAATGTAGCCGAA	202
279	CAGGTGCTGAATGTGTTGTGTT	258
899	TGACTGAAGCGGTGAAGGAT	880
113	CGAAGTACGAAGGTTGAACGG	93
461	GCGGTATCATTGTATTGTCCATTG	438
461	GCGGTATCATTGTATTGTCCATTG	438
273	GCTGAGGTGGAGTGTAAATCGG	253
267	GCTGAGGTGGAGTGTAAATCGG	247
323	TCAGCCAAGAGTTGTGTGTGCG	303
249	TCAGCCAAGAGTTGTGTGTGCG	229
302	GGAATCTTCAAGTTCAATGCCA	281
1532	TTCAACGGTCTCTGAGCAATC	1512
654	CGCTACGAGACGATCACGGT	635
832	GGTGCTCGTATTGTGTTCTCTTC	810
1411	CCAGGTCGTAGTCTAGGAGCAGGT	1388
1150	CGTTGAGAATAGAGGCAACTCGT	1128
1162	AATACGTCAGCACCATCAATGTAC	1139
343	AGAAGAAGTGGATGGAGAGCAG	322
916	GAGACAGAGAGTTCAGAGCTCGTAA	892
979	GCTCATAAGATTCCATTGCGTTG	957
631	CGTAGTAGGTGTGATTGAGGTGTT	607
1123	CCGACACTGTTGAGATGACCA	1103
645	AGAGTTGGTGTGGTTGAGATGTT	622
672	TTGGAAGCGGAGTGAGTTGA	653
924	CGATGGCTTGTACAGTTGA	905
3110	AGACGAACTACATTCTCATCCACGA	3086
150	TGAATGCTGGAGATGGACGA	131
204	TCGGTCGTCCAGTTGAGACA	185
1706	GCCAACGGAGATGTAGGTGA	1687

1790	GCCAACGGAGATGTAGGTGA	1771
1223	ACGAGGCAAGTGGAATGTCA	1204
389	GCACCAGGCAACGAACTTCC	370
411	GCACCAGGCAACGAACTTCC	392
147	CACCAAGCCATTGTGATCCATA	126
135	CACCTGGAAGTATTATTGGTCAACA	111
527	CAATAGTACATTACGGCTCCATCA	504
617	TGGAAGGATATTCGAGCTGACA	596
628	TCACTAGCACAAACGATGATGATG	606
2076	AATGGCAGCTTCGTACCACA	2057
298	TGTATAGGACTCTTGGATCATTGCTT	273
1770	AATGGCAGCTTCGTACCACA	1751
129	TCCTATTAACGCAATCGTCAGA	108
128	TCCTATTAACGCAATCGTCAGA	107
1041	TGACCAACCAAGATTAGCGATT	1020
117	CACACTCTTCGTGCAAGACG	98
117	CACACTCTTCGTGCAAGACG	98
923	TGAACGGAGACGACGACTGT	904
829	GCTGCCAAGATGAATGAACG	810
1306	TTGTTGTCATCATCTCACCACCAT	1283
837	TTCTCTGAGTTCCGTGAATGTCA	815
619	TTCTCTGAGTTCCGTGAATGTCA	597
837	TTCTCTGAGTTCCGTGAATGTCA	815
837	TTCTCTGAGTTCCGTGAATGTCA	815
373	CTGCCTTGTCAGCATCATCA	354
976	CGTTGACTATCACTAAGTTGATAAGCA	950
913	GGTGAAGGTCTCGCAGGTTC	894
1213	ATCATACGGCTGGCGTGGTA	1194
596	GAATCGGCAGTGATCTGGTC	577
1414	AATAATGCTTCATTATCGTAGAGGACT	1388
683	AATAATGCTTCATTATCGTAGAGGACT	657
581	CGAATGTTATCCGTAGTGATAAGATC	556
1239	GATCAACATGGAATTATCACGAAG	1216
297	AACGATGCGTGGAAGTGTGC	278
728	ACACGGAAGTGGTATTGGTTG	708
1960	AGTATGGATGACTTGAGGACTCG	1938
1960	AGTATGGATGACTTGAGGACTCG	1938
1818	AGTATGGATGACTTGAGGACTCG	1796
1818	AGTATGGATGACTTGAGGACTCG	1796
484	TTCAAGTCTCGGTGTATGTAGCA	462
448	TGACGAGTTGAGTTCCAGCA	429
797	TCCACGATACACTCAACAGCA	777
1740	CTGATGGATTCTGGATGAGTCTT	1718
967	TCACACGATCCGATCCAGTT	948

1179	GGTACAAGTCGCCGAAGAATC	1159
1208	CAAGTCGCCGAAGAATCCTT	1189
377	CAGCATCCAAC TTCACAGCA	358
185	AACTTCGGATGCAGCAGTTG	166
133	TTCTAGCAGGTTGCGTCCTT	114
190	GTTGACGGCTTCTGTGTAGTTGC	168
389	GCACGGTAATAGAAGTATTCCAAGT	365
575	TGAAGTTATATTCTGGATCTATCGGA	550
530	CATGAGAAGAATGATTAGTGAGAATCC	504
449	CATGAGAAGAATGATTAGTGAGAATCC	423
549	CATGAGAAGAATGATTAGTGAGAATCC	523
940	CGACTTCGATAGTCTTATTAGCTGGTG	914
253	CCATTGCACGAAGTATTGACTC	232
617	ATCTTCTCGGTCGTCACATCA	597
696	CTTCGAGGATCAGACGGTGA	677
696	CTTCGAGGATCAGACGGTGA	677
680	CTTCGAGGATCAGACGGTGA	661
680	CTTCGAGGATCAGACGGTGA	661
418	GGCGACGAGGATTGTAGTTG	399
343	GGCGACGAGGATTGTAGTTG	324
464	GGCGACGAGGATTGTAGTTG	445
984	TTCCAGTTGAGTCCATTGTGC	964
1350	TTGATCAGAACTGGTGTTATGCA	1328
2456	ACTCCATCAGTGAGACCGAGTT	2435
2343	ACTCCATCAGTGAGACCGAGTT	2322
2418	ACTCCATCAGTGAGACCGAGTT	2397
454	GGTAACAGGCTCCAAC TTGC	435
1171	GATGATGACGCACCGCTTGA	1152
876	GACGAATATCATTATCAACGGAGA	853
416	TCTTGCTCACTTGCCTCTCGT	396
254	CGTTGTATGAATAGATCAAGAATAAGCT	227
609	TGTGACAAGTGTTACCGAGAATG	587
633	TGACAGAAGTGTGACTGCCATT	612
176	CGCTCTCTCTTCTCCACAA	157
412	TGAGAATCGGAGCGGAGCAT	393
307	GTATCACGCCGTGCTGTTCC	288
497	TTGCACGAGCAGAATGTGAC	478
747	AAGGCAATAGAACGATGTGTAGG	725
747	AAGGCAATAGAACGATGTGTAGG	725
1074	AAGGCAATAGAACGATGTGTAGG	1052
250	ATGTTTCATCCGCTTCAAGGC	231
1579	CGGCGTGAAGAGGATTGTTG	1560
870	AATCTTCGACAAGTTATTCAGAGTCTT	844
105	TGTGTCAAGGTAAGGAAGAGCA	84

316	TGTGTCAAGGTAAGGAAGAGCA	295
641	ACCGAGAAGAATTGCAGTTGA	621
717	ACCGAGAAGAATTGCAGTTGA	697
881	TGAGTTCTGAGTTGTCCACTTGC	859
188	TCACAGTCCTCATCACTTCCACA	166
863	TGTTCAATCAATGTGTTCAATGTAGT	838
122	AACTATGTCGGATCACACGTCA	101
863	TGTTCAATCAATGTGTTCAATGTAGT	838
926	CCGATGTGTAACCTGGTGGAG	906
1006	CCGATGTGTAACCTGGTGGAG	986
932	CCGATGTGTAACCTGGTGGAG	912
1012	CCGATGTGTAACCTGGTGGAG	992
920	CCGATGTGTAACCTGGTGGAG	900
1000	CCGATGTGTAACCTGGTGGAG	980
528	TGAAGTGACTCACGGCACATC	508
721	AACGCAGGCACATAGTCCAA	702
550	TTGGTCTGCTGCTGTGTTCA	531
721	AACGCAGGCACATAGTCCAA	702
721	AACGCAGGCACATAGTCCAA	702
2096	CGTACCAATAATCCGAGCCTT	2076
1069	ATCGGAATGCGTCACAGAGC	1050
239	CGATCAGTTGTCACATAGTTGTCA	216
307	GTTGTTCTGTGACAGCATCTTCA	285
353	CAGAATGAATGCTCTCCGCTT	333
1115	CAGATAGACGATAAGAACTCCGATT	1091
118	GTGAAGTTCGGCGTGGAGTT	99
449	ACTTCAATCCAATCCATTAGCAG	427
476	ACTTCAATCCAATCCATTAGCAG	454
123	AATCTGTGCAACATCCATTCTTC	101
283	CACATTGTATACGGCAACCTTG	262
141	GTTGACTGATGTTGCGATGAAGA	119
323	CGACAGGATTCATTCCAACC	304
2612	CGTGGTGATGAGATAACAGAAGATG	2588
793	GGAATGTAGGAGTTGCGGAA	774
428	GGAATGTAGGAGTTGCGGAA	409
575	GGAATGTAGGAGTTGCGGAA	556
896	GACATCATTGGAAGTGTGACAGA	874
1213	CACTCTGCCGAAGTGCTACG	1194
1210	CACTCTGCCGAAGTGCTACG	1191
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124	CAGAGACGATGAGAAGCCGAA	104
1358	CCGCATACTAAGCACATACAAGC	1336
184	CTTCCAGAATCTCTGTCGTGCA	163
711	CAGTGGTCGGTGGCATTGAG	692

338	TGTGCGTGTAGCCAGGATTG	319
138	GCAGAGGTCGTATTCGGAGAGC	117
393	TCCGTGAGAATCGTTGTGTCC	373
414	TCCGTGAGAATCGTTGTGTCC	394
501	CGTAGCACTTGTGTTGGTGGT	481
560	TAGCCTTGTGCCGAGTCTGG	541
633	TAGCCTTGTGCCGAGTCTGG	614
427	GATAAGCCTCGTTGAAGATAACAATG	402
464	GATAAGCCTCGTTGAAGATAACAATG	439
108	CATCAGCGGCATCTACATCC	89
2160	GGACTTGTTGCTGAGAGGTGA	2140
2276	CATCACTTGTAACGGTCTTCGC	2255
165	CAACGAATGACTGTATGTGGAGA	143
1797	CGTCTCTGGCACTTCTGGCA	1778
1797	CGTCTCTGGCACTTCTGGCA	1778
1818	CGTCTCTGGCACTTCTGGCA	1799
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622	CTGGCTGCTGGATTGTAGGA	603
2821	CGATTGAAGAGATGACGAGAGAA	2799
2344	TGGTGATGGAGCAGCAGGTG	2325
1933	TGGTGATGGAGCAGCAGGTG	1914
191	AAGATTGGTCCGTTGACATCA	171
221	AAGATTGGTCCGTTGACATCA	201
221	AAGATTGGTCCGTTGACATCA	201
176	TGATCCGAATTGGTGAACATCA	156
244	GATTGTTGTTCTGCTTGATTCTG	223
244	GATTGTTGTTCTGCTTGATTCTG	223
333	GATTGTTGTTCTGCTTGATTCTG	312
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118	ATTGTTGATGTATTATTGATTGGAAGA	92
333	GATTGTTGTTCTGCTTGATTCTG	312
279	AGCAAGAACTCCTTCCAACGG	259
165	GCCTTGTTGGTGATAACGGAA	145
175	GCCTTGTTGGTGATAACGGAA	155
396	GATGTATCCGAGATCAAGGTTACGAA	371
519	GATGTATCCGAGATCAAGGTTACGAA	494
941	TTCCGCCACTACTTCTACGAGA	920
764	TCGGAAGTGAGGAAGACAGC	745
763	TCGGAAGTGAGGAAGACAGC	744
641	GGATTAGTGTGGAGCCTTCG	621

658	GGATTAGTGTGGAGCCTTCG	638
191	CCTGAGCCAAGTGAGCATCG	172
151	CCTGAGCCAAGTGAGCATCG	132
1259	GTTGTGACCGAAGTGACCATT	1239
596	CCATAGAGCACGGAGCACAA	577
586	ACGAGTGCCATCAGAGTGTC	566
556	ATGCAACAATTATCAACGCCATA	534
272	GCGGACAGTTCGGTTCGTAA	253
201	TTCATTCAAGTTGTTCAAGTGA	178
201	TTCATTCAAGTTGTTCAAGTGA	178
142	GGTCGGTCCAACAATAATCAG	121
574	CGCAGATAAGACAAGTGATAGCC	552
794	AGGATTCCATTGGCAATTGG	775
766	AATCAGGAGAATGAAGATCAGGAC	743
1012	TCAGGAAGGCGTAGACAGTTG	992
321	ATCCTCCACGACGAGAGCGA	302
611	TCGCACAGAATACCTCCGTT	592
683	GAGTGAACGGCTTCTCGCTT	664
258	TTCTTGTGATTGTGCGTAGGC	238
399	CGGTGGTTGCTGGTGTCTG	380
884	TGATTGGCTTCAGTGGAGATG	864
889	CTTGGTACTGACGGTTGGTTC	868
721	ATTGATGTGGCTCCTCTTCTC	700
981	ATTGATGTGGCTCCTCTTCTC	960
158	TTATCTACTGTTGGTCTGGCA	137
2546	GCCACAACCTCCACCAACACA	2527
2552	GCCACAACCTCCACCAACACA	2533
574	CGAGTGGATGAGGAGTCGGT	555
391	TTGACGAACCGAATAGATTGACTC	368
649	GGCAAGAATAACTCCATCGC	630
543	GGCAAGAATAACTCCATCGC	524
416	TCAACAGCCGTAGGACACCA	397
268	CAGTTGTGGTTGTTGTCGCA	249
340	AAGGTGGCTCGTATGGATGG	321
253	CGGTATTCACGGAGACTTCAGA	232
590	GGAATGGTGAGCATGAGTCG	571
245	ACAGCGGCTATCGCAACCTT	226
315	ACAGCGGCTATCGCAACCTT	296
159	TTCCACCTGTTCCACCTGTT	140
1233	GTTGTGTCGTGGCATCGTTG	1214
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987	GTTGTGTCGTGGCATCGTTG	968
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155	CGCAATACCTCATTCGTTATCAG	133

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308	GTTGTGTCGTGGCATCGTTG	289
114	TCTCTTCTTCAACGGCTTCTG	94
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534	CGTATGTTAATCCTATCATTAGAGACCA	507
953	TCATTCCGTGACACCGCTTC	934
241	TCATCTGTATCTTCTGGTCGTGA	219
320	CTCCGATAGCGATGTTCTCTTC	299
309	CTCCGATAGCGATGTTCTCTTC	288
421	CTCCGATAGCGATGTTCTCTTC	400
128	CATTCATGTGGTCCAAGTGTTC	106
805	GAAGATGGAGGAGAAGCATTGGT	783
347	TGTTGAAGATATTGGATCACGATT	324
758	TTATGCAGGTCGCTGGCTAA	739
952	AATTATTCTGGTCAGTTGGAGTGG	929
443	CTGAAGTCGCACTTGCCAAC	424
145	CCAGCTTATCCACCGACGTT	126
125	ATCGACTTGATGATTGGCTCCA	104
698	GCGTGAGGCGGAGATGGTAG	679
221	CGTTGTCGTCATCTTCACTGTT	200
147	AGCGTAACCTTCGTATATCTCTGG	124
140	TCAACAATCTTGAATTGATGATCG	117
566	CACAGTATGAGAACCAGGAAGATTG	542
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193	GTGGTATGTATTGCTGGTTATGACTT	168
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225	ACCTGACAACCAGACAAGTCG	205
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200	TGAATGGCACGAAGTGAGAA	181
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1317	TTCCAAGACATCTCATTCCATG	1296
128	CAACATGATTGTAAGCGTATCCG	106
448	CGACTGAGTAGAATGGAATGAGACA	424
698	ACGAGTGAGCAGAAGCCGAA	679
628	TATCCTGCCGTTGAATCGTC	609
707	TCTTCTTCAAGTTGTTCCGACCT	685
234	AGTGTCATCTCCTGGTCCGA	215
219	AGTGTCATCTCCTGGTCCGA	200
277	AGTGTCATCTCCTGGTCCGA	258
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138	GGTTCCTCCACCTCCTCATCC	118
652	CAAGAAGAACAGCCGACGAA	633
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247	TGCGTCTCTTCGTCTCTCGT	228
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859	CAACCACAACATCGCAACTG	840
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184	ACCACAATCATAAGAGCAACCAT	162
312	ACCACAATCATAAGAGCAACCAT	290
449	AATCCTTCGTGCAGACTAGAGAA	427
389	TCCTGATGGTCCACGTTCTCC	369
537	TCAAGTGCAGCCTCGTCGTT	518
1284	CAGACACAGACTCCTGGCTCTC	1263
1328	CAGACACAGACTCCTGGCTCTC	1307
569	GCGAGTATCTTGAATTCTATTCCATC	543
660	GCGAGTATCTTGAATTCTATTCCATC	634
922	TCCATTGTTTCATCAACTCCGT	902
864	TGACATAGTATCATCCATATTAGAGGCA	837
252	TTGAAGTTCCTCTGGAAGATCC	231
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255 CGATGTCCAATAGGACCTTGC	235
153 CAGGCACTATCAGTTGCTTGG	133
133 ACAACACGCTGCACATGCTT	114
551 CACAGAATCAGGAACGCCAA	532
127 ATGGCACACATTCCGCAACA	108
161 TCATAAGTGATTGTTCGATTCTTAGACC	134
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239 CAATGGTGGAGAAGGAAGAACA	218
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428	GGTGTACAAGCGTCACTTCTGC	407
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906	ACCATCTCGCTCTTGTGACG	887
912	ACCATCTCGCTCTTGTGACG	893
953	CGTTGAGCGAGTATGTCCGA	934
536	TTGCCGAATAGTGCGTCCAT	517
175	GCATACCAATTCTCCACCTTCTG	153
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142	TATCTTCAATGAGAATCCAGTCTGTAG	116
208	CGTATCCGACAACACCACCAG	188
129	GCCAGCTCCAGGATTCTCTT	110
152	TGCCATTAGACCTCTCCATCG	132
651	GTACGAATGATCTGGAGCTGAAGC	628
296	TCTATGACCACTGACGCCAA	277
355	GATGACATTGCTGAGATTCGC	335
276	GCCAGTAGAATGGAGTGTAGAACG	253
365	TTGTAGGAGAATGGTGGCTTG	345
547	GAATACCTCGTCCTCAGCAGTTG	525
288	TTGTAGGAGAATGGTGGCTTG	268
305	CCGTCCGAGTCAGTTGTCAT	286
1457	GAATGATGGCGTGAGAGTGTAG	1436
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377	GTGATACTTCATGACTTCCAGGTG	354
120	GACTGCTTCCAGGCATGTTG	101
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429	CCAATGACGGACCGATAAGTG	409
330	AATAGTTGTGACGACGATCCATT	308
580	CAATATATACTTCACCATCGTCGGTT	555
295	TTGACATTGTCCTCCAAGCC	276
685	ATACCAGCATTAGAAGACACGGA	663
561	TTCATCAGGTATTGTCACAGCATA	538
1935	CAATCCTCTATCAGCCGTATGG	1914
201	ACTGATTCTCGGTCGCCTCA	182
1000	AGTTATTCTCACTGTCCAGATAGCAA	975
339	AATTCTCATTAGACTTGCATAATAATCG	312
158	AACTGTTCACTGAACTAATTGAGTTGT	131
343	GATGACCTCTGTTACGGACCA	323
376	GATGACCTCTGTTACGGACCA	356
858	TTGACGGCCATGACAGAAGA	839
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307 AGACACGGAACCTTGAACCA	288
591 CTTATTCTGAACACTTGTTATCTCCAA	565
259 CGACTTGAGACAATGTGTTAGCC	237
236 TTGAGATCGGTTAGGTTGTTGC	215
272 TCGTCGTTGATGATAGATGATAAGC	248
475 CATCAGCGAGATATTCGTCCTCT	453
592 TTCTCAGTCTCTCATAACCATCATTC	567
748 TGAAGTTCGACGGAAGCAATG	729
1152 CTCCTTCACAGATTTCAGCCTTCA	1130
431 TCCAGCGTGACGAACAAGTC	412
164 CTTGTCCTTCTTACGAAGACG	143
255 CGGATAGCAGATTACTGTAACGCA	232
1824 CGACAACATGCTTGATTACGAG	1803
1815 CGACAACATGCTTGATTACGAG	1794
2268 ATAAGCGATGAGGAAGATGGTC	2247
459 GCCTTCTCCTTCAATCTTCAGC	438
115 CGGATGACGATGAACACCA	96
376 GATGATGGCATTGCTCAGA	357
143 CGTTGAACATTGTAATATGTTGCTT	119
1029 AGCTTCTACGTCGGAATGGA	1010
830 TGAACACCTCGGAAGCCAGT	811
2391 GACGAACCAATGAACACCAGT	2371
2419 GACGAACCAATGAACACCAGT	2399
2415 GACGAACCAATGAACACCAGT	2395
2443 GACGAACCAATGAACACCAGT	2423
124 AATCCAATACCAACCGCCTT	105
133 CGAGCAAGTGTCCATCCAAT	114
543 AATTGTGTCTTGAAGTGGACAGTAGT	518
96 TCCGACAAGCACACACAGAC	77
92 TCCGACAAGCACACACAGAC	73
562 CGGTAAGTTCCTTGTCACTGGCT	540
304 CAAGTTCGATGATAGTTCAGATTG	280
166 CATCATCAATATTAGAATCATCACGA	141
121 TTGCTTCCGGTCTGAATCAAC	101
225 CGCAGTCTCCATATCTACATACACC	201
133 TCTGACATCCATCACGACAATC	112

4739	TGAGAGAAGTTGAGCCTGAATGC	4717
424	GCGTGTCTGATTGGATGCA	405
572	TTGAGAGTTGCGTTGAGAAGAGC	550
591	TGCTGGAGGAGTTATCAGTTCGG	569
2258	TATCCACACCAACGAGCGAT	2239
319	GACCATGTACGTCACCACAGATC	297
334	CAACGAACAGCCAGACGATT	315
253	GACAACGAAGGAGCATGCATT	233
253	GACAACGAAGGAGCATGCATT	233
208	GACAACGAAGGAGCATGCATT	188
965	GCTGATTGCTGCTGTTGAGG	946
337	CCGCATCGTACTTGTATGACAC	316
119	AGATGTTCAACCGTGACCGT	100
1210	TCATCTGTGCAATCGGTCCA	1191
795	CGCTTGAAGTGTTGCCAATG	776
1159	TGGTCCGTACAGTGGAACA	1140
1161	ATGACAAGACCGCCAGACAC	1142
986	TGAAGTGCGGTAGTCGTAGGT	966
1649	GATGATAATTCTTGCTTGATCGC	1627
651	CGTGTTATTGCTGTGACTTCTGA	629
677	CGTGTTATTGCTGTGACTTCTGA	655
190	CGCTCTCTATAGCAGTTGGCA	170
87	TTCAGTTCTCCACAAGCACCT	67
388	CAATGGATCTCGTGTGGCTAT	368
449	CGAATTAGAGAACGTCTGCGA	429
512	TACAAGCGATGTGATGAGTCCT	491
512	TACAAGCGATGTGATGAGTCCT	491
522	AACAACCTCTCGTGATACATGACC	499
537	AACAACCTCTCGTGATACATGACC	514
784	CTAGTCGGCATGGTGGAAC	765
684	CTAGTCGGCATGGTGGAAC	665
310	AGTTGGAGTAGAATGATAGAAGGCA	286
479	GCAGCAGACGAAGAACCAAG	460
258	ATCCTGACATTCCTTGGTTACACAT	234
1275	ATTGGAGATCATTCGGAGCA	1256
1264	ATTGGAGATCATTCGGAGCA	1245
631	TGTCGGCTTCAATAACGCAT	612
149	CGTAGAACAATAGTCGCAATGG	128
2873	AGCACCTTACGGCAACACAA	2854
162	CTCTACCAGCTACTAGAACTTCAACG	137
1040	TCGAGATGTAACGGTTGAACC	1020
993	CGATTGCTTCTGAGGACATTG	973
2876	GCGTTCTTCAATAATCTTCTGTTCA	2852
3041	GCGTTCTTCAATAATCTTCTGTTCA	3017

788	CATACTGAACAATGGTGGACGAC	766
953	CATACTGAACAATGGTGGACGAC	931
292	GTTCTCTTCAATAGCACAGTTCACA	268
295	GTTCTCTTCAATAGCACAGTTCACA	271
336	GTTCTCTTCAATAGCACAGTTCACA	312
493	CTTCAGGACGGTAGTTGCGA	474
493	CTTCAGGACGGTAGTTGCGA	474
230	TCCATCTTGCTCTCTTCCTTGT	209
230	TCCATCTTGCTCTCTTCCTTGT	209
230	TCCATCTTGCTCTCTTCCTTGT	209
230	TCCATCTTGCTCTCTTCCTTGT	209
230	TCCATCTTGCTCTCTTCCTTGT	209
230	TCCATCTTGCTCTCTTCCTTGT	209
2665	GAATCATCAGAGACGGCGAGT	2645
2665	GAATCATCAGAGACGGCGAGT	2645
2665	GAATCATCAGAGACGGCGAGT	2645
1175	CGTGGCAAGGAGGATGTGAT	1156
579	CGTGGCAAGGAGGATGTGAT	560
396	CGTGGCAAGGAGGATGTGAT	377
756	CGTGGCAAGGAGGATGTGAT	737
432	CGTGGCAAGGAGGATGTGAT	413
594	CGTGGCAAGGAGGATGTGAT	575
531	CAACGAATCCGACAACGAAC	512
959	CGTGGCAAGGAGGATGTGAT	940
1088	CGTGGCAAGGAGGATGTGAT	1069
314	TCCATCTTGCTCTCTTCCTTGT	293
1406	CAACGAATCCGACAACGAAC	1387
1380	CAACGAATCCGACAACGAAC	1361
579	CGTGGCAAGGAGGATGTGAT	560
396	CGTGGCAAGGAGGATGTGAT	377
756	CGTGGCAAGGAGGATGTGAT	737
594	CGTGGCAAGGAGGATGTGAT	575
889	TGAGGTTGTTGCGTTGAAGG	870
139	TCAAGATAGGTTGGTAATCGCTAA	116
929	CTCTTGACGGACACCATCTTG	909
166	GCAGAGAGGCAGACATCCGA	147
857	GCCGGATAGAATTGTGGATG	838
319	ACACCACCAATAACTTCGCAA	299
318	GGATTCATCTCTTGACAACATC	296
123	GGAGTTGTCACGAGATGCTTC	103
764	TCCTCATCGAATGAGTTGATGG	743
529	AAGCAACTGATGATGGAGAGGA	508
529	AAGCAACTGATGATGGAGAGGA	508
487	AAGCAACTGATGATGGAGAGGA	466

487	AAGCAACTGATGATGGAGAGGA	466
115	AAGCAACTGATGATGGAGAGGA	94
115	AAGCAACTGATGATGGAGAGGA	94
508	TGATGTAGGACAGATAACAATTCCAG	483
182	CACGGACGCACAATGAATCG	163
125	GGCACTTGGAATGTAGGATGAC	104
510	AGCAGTCCATCCATTCTTG	491
426	AATCGGTGTAGTTCGCTCCAG	406
664	TGAATACTGTGACGGCAGATGAC	642
1557	GTTGATTCTGCTTCTCCTCGTT	1536
245	TGGTACTAGACATTCTACAGGCTTCC	220
746	CTCGGAGCATGAACAGCGTT	727
1490	TTCCGATGATTCCAACGATT	1471
749	TTCCGATGATTCCAACGATT	730
181	CAGGACAACGCATCAATCATC	161
140	GGACAATATGTGGCATGTCATC	119
129	TCTGCTTCTCACCATCTCTCG	109
2014	TCTTGGATTCAGGAGTCGCT	1995
1197	ATAACCAGAGGAGCCAACCG	1178
1635	ATAACCAGAGGAGCCAACCG	1616
1632	ATAACCAGAGGAGCCAACCG	1613
1247	ATAACCAGAGGAGCCAACCG	1228
566	AGCATTCAACTGGCGGATAG	547
568	AGCATTCAACTGGCGGATAG	549
805	GCTTCATTCTCCGCATCTCG	786
1100	TGAGTATTCACAAGACTGTCCGAT	1077
159	TCAACCGAACGAGAGAGGAC	140
424	TGATGAATGATGCGAGATCGTG	403
583	TGATGAATGATGCGAGATCGTG	562
476	CGATTCATACGGACAGCAAGT	456
568	TGATGAATGATGCGAGATCGTG	547
600	CTCTGGCTTGTAATTACATCG	579
599	CTCTGGCTTGTAATTACATCG	578
621	CTCTGGCTTGTAATTACATCG	600
483	CTCTGGCTTGTAATTACATCG	462
600	CTCTGGCTTGTAATTACATCG	579
444	AATGGAGACAGAGCATCACGACA	422
450	AATGGAGACAGAGCATCACGACA	428
643	GCACATGCTTCATAGAATAGGC	621
146	AATGTTATCAAGTAATGACATGGTGAA	120
361	ACTGCGACGATGACGGATCT	342
1397	GTGATGATTGCTGTGAAGAACCA	1375
151	CGAACATCTCATCAACAGTAAGACAGT	125
160	CATCTCCGCTTCACCTTCTG	141

172	CTTGTGTCCACCTGCTGCTT	153
127	AGGATTATTGCGTCCTGCAG	108
133	CCACATCTCCATCGTTCACA	114
544	AAGAGAGACGAGACTGGATAAGGA	521
544	AAGAGAGACGAGACTGGATAAGGA	521
711	AGACTCGGCAGAACCATCAG	692
689	CTCCGAACGGCATTCTCTT	670
656	CTCCGAACGGCATTCTCTT	637
1982	CTCCGAACGGCATTCTCTT	1963
1753	TCTCCAATTCTGCGTCGTTC	1734
247	CCTCCACGACCACCACGAAT	228
322	CCTCCACGACCACCACGAAT	303
259	CCTCCACGACCACCACGAAT	240
377	GCGTCGTCTGGCTTATGACT	358
407	GCGTCGTCTGGCTTATGACT	388
225	GCTGTACTTGTCCGATTGAGG	205
1494	TGCTCATCTGTCAACTCGGA	1475
613	GGATGAATTGGAGTTGAAGACTCG	590
3393	TATTGGACGTGCCACCGAAC	3374
3819	TATTGGACGTGCCACCGAAC	3800
518	GCTTGGAACGACCATTCAATG	498
189	TGCTTCGGCTCGTGACATCT	170
1074	TCAATAACAACATGCTCTTCGG	1053
3773	GCAGATGATGAACCATAAGGACT	3751
1076	AACACATCATCTACAAGGTCTGGA	1053
435	GCGACGAATAATGGATTGATG	415
301	TAGGCAGCGACTTGTTGTTG	282
407	GCTTCTGCCACCACATCCTT	388
1294	TCTGGTGTGGTTCAGGAAGG	1275
223	ATGGCGAATCTTGCGTAGGA	204
325	CGTTGTTCTCTACTTCAATGACTCG	301
658	CGAACACCGCTAACACCGAA	639
385	TGGACACATACTTGCTCGGA	366
129	GCGGTCATCAAGTTCCGAAG	110
829	CTAAGAAGATTCCAAGGCAAGC	808
129	GCGGTCATCAAGTTCCGAAG	110
146	GCGGTCATCAAGTTCCGAAG	127
130	TAGAGATGCCATCCGCGATG	111
141	CCTTCATGGTCGTATCAATTGTTCT	117
877	AATTGTGTGGCGCTACGTCA	858
574	GTAAGAGGAGACACTTACAACCTACCA	548
902	GATCGGATTGGTACAACAGATGT	880
853	GCCAGGCTTCTGAAGTTATTGG	832
1038	GCCAGGCTTCTGAAGTTATTGG	1017

234	CACAGTATTCGCACAGACAACA	213
170	TCACGTATCAACTTCTCATGTGC	148
156	CTCCATCCACCTCCGTATCC	137
580	AATTGCTAATCATAGTTACGACCGT	556
315	TGTTAGAGAATATTGAACGTAAGCCA	290
263	TCTTGTTGGTGTGCTGCTGT	244
200	TCTTGTTGGTGTGCTGCTGT	181
658	AGTCGATGAGTGCAATTCGG	639
381	GACGTATGAGCCGGCAACAC	362
417	TTCGAGTAGAGAGCTACTACGGCTT	393
221	GCTTCCGCAACCAATGACTC	202
991	TCCACGCTCATCGAGTAACTTG	970
1114	TGGCTCCAGTGTAGGCGATT	1095
457	TCCGATAGCCACAACCGAAT	438
424	CTACACCAGCAGCAACCGAA	405
2706	CGAATACTCCTGACATCATCGTT	2684
2662	CGAATACTCCTGACATCATCGTT	2640
620	TCAAGAAGAATCAATGTATGACGAC	596
133	GCTTCACACAGTTGCTCACAGA	112
815	AGATTGAATGATTGGATGAGCAC	793
680	AGATTGAATGATTGGATGAGCAC	658
658	AGATTGAATGATTGGATGAGCAC	636
473	ACCAATAGCTGAGAACAAGATAGATG	448
1507	CAACGCATTGTCCTTGACGAC	1487
184	GGACGAGTTGAACTTGGATGG	164
544	ACAGTGGACGGCGATGCTCT	525
171	ACCGACTCCACGTCTCTACCAA	150
130	CGTATGTATCGCTGTGATGGTC	109
134	CGGTACCATTGACACACATAGAGA	111
148	GGATTGATGGTCTCATTGGCA	128
161	GAGGAAGGAGATGCCGATTG	142
272	GGCAGGCGTTGAGATTGGTA	253
357	CAACAGGCATTCCATCTACCA	337
247	AGTCGTTCTGCTCTTCTTCC	227
195	GACAGAGGAGCCAATGACACA	175
140	GCAACACAGGCGGTACAGG	121
973	CGCTAGAGATGGAATGGACAA	953
1254	CATCATGGCGACATCGGATC	1235
1254	CATCATGGCGACATCGGATC	1235
189	CTTATAACAGTGATCTTCGTATAGTTGC	162
126	ATTGTTCTTCAACTTGACATACACA	101
157	TGGTGAGTGTCGTGAGGAATG	137
338	AGGTGTTGGACGATGGTGAA	319
566	CCGAAGAGAGGCGAGAGCAC	547

168	G TTCCTATTATTGCTGTCCGTGT	146
294	GAGGTGTTGGACGATGGTGAA	274
242	G TTCCTATTATTGCTGTCCGTGT	220
664	AGCATTCTCTTCGGCAGTGA	645
512	CCGAAGAGAGGCGAGAGCAC	493
764	TACGCCGATACGCTCCAACA	745
237	GACACCATTGTCAACCAGTGAA	216
341	CAGAATGAGATCAGAAGAAGCCA	319
340	AATTCGATACTTCCGTGGCTT	320
362	AATTCGATACTTCCGTGGCTT	342
758	CTCTCTGAGACGTTGAGAAGGAA	736
1189	TCCTCTTCTCGCTCGGCAAT	1170
142	TACCACAGACGCAGGAGGAT	123
324	CCATCACTCTCTCGTAACCTCAA	302
1604	TGAGCAATTGGTCCAACCTGA	1584
521	CGCACTGCTGACCAGATAGG	502
262	AGCTCAGCGTAGTGATCTGGA	242
257	AGCTCAGCGTAGTGATCTGGA	237
680	CTCGTCGCAGTCAGCAGAAG	661
271	ATTGATGCTTGGCAAGAACC	252
312	CGAGGTAGATGTTAACGATCCG	291
125	CCGCCAAGAGCTGGAGATGT	106
411	GAACCATACGACACACCTCCA	391
1204	GGTTCAGTTCACCTATTGCCTCTAC	1180
511	CATCCAGAAGGTGAGCGAGGT	491
245	CGTGTCGGAAGATTGGAATC	226
538	CAACTCCATCAAGTTCATTGTCTT	515
551	CATCTAGTTGATATTCCTCAAGAATCG	525
819	GCAGAGGATGAAGAGGCAAC	800
347	GCTGAGGCTGGTTCAGATGC	328
806	GCTGAGGCTGGTTCAGATGC	787
234	TTCTGTGCCAGCATAATATCCA	213
2215	CGAGTAAGAATGCCACGAAGA	2195
263	TTGGAGTTGGCGAGATGTGA	244
279	TTGGAGTTGGCGAGATGTGA	260
932	ACGAAGCAGTGATGTATGTTGG	911
349	CAACTTGCCAGAAGACAACTTCA	327
123	AACGTGGTGGATACGAAGGTT	103
1492	ATGGAGGCGGAACAAGTGGT	1473
1492	ATGGAGGCGGAACAAGTGGT	1473
673	TGAATGGTGGTTGTCCGAGA	654
1844	CGTATCGAGACTTATCTTCTTCTGC	1820
702	TTGATGATCTGTTGACCATCCTAT	679
542	CATGAGTTGGTGTATCTCCTTCC	520

592	CCACAGGTTCTTGACTTGCTGA	571
365	TCTGATGAAGTGGTAGGCGATA	344
150	GCTCCATCTGGATAGTAGAATCGT	127
701	GCCTCATCACACGAACCACTT	681
769	CGCCTTATCCTTATCGTAGCG	749
136	CATACGCTTACGGACTTCGG	117
152	CATACGCTTACGGACTTCGG	133
398	AGGTTCTTGTTGGTCATTACGAG	376
771	TGGTAAGAAGACGATGATGAATGG	748
608	TTCATCCACCAGTCGTAGTCCT	587
2805	GCTGGAACGGATTGTAAGGC	2786
2730	GCTGGAACGGATTGTAAGGC	2711
327	CTGGTGATGCTGGACGGACT	308
1347	GACTCATCTTCCTGGCTCTCC	1327
1395	GACTCATCTTCCTGGCTCTCC	1375
134	TCTTCACTCATCTACACTCCTATCTCC	108
134	GCAAGAGCTCAATGCTCTGG	115
577	CGTCTTGGACTGCTCCGTAA	558
772	TTCCACGGCACTCTCCATTC	753
395	CCAAGAGGTTGGAAGAATATGG	374
151	TGACCTCATCAAGCTCCAATG	131
1960	CAGCACGGCACCTCTATTGG	1941
1960	CAGCACGGCACCTCTATTGG	1941
460	GAATACCTTGCTGACCTCCATC	439
445	ATCCTCCGACGCACATCCAC	426
445	ATCCTCCGACGCACATCCAC	426
1025	GGATTCGACTGTTGTGGTGTCT	1004
1043	GGATTCGACTGTTGTGGTGTCT	1022
944	GGATTCGACTGTTGTGGTGTCT	923
812	AAGACCACGAAGCGAACGAT	793
129	CCACGAGAACCGCCAGACAT	110
253	CAAGAGCAGCGACAGTGAATC	233
1071	TCCAGGACGACGCATCACTT	1052
1015	TCCAGGACGACGCATCACTT	996
1077	TCCAGGACGACGCATCACTT	1058
921	TCCAGGACGACGCATCACTT	902
181	TGTCATTCATGTCGAGGTTGTCA	159
189	TTGTCATTCATGTCGAGTAGTTCA	166
655	GGCTCGTCCTGTGTTGTCTAA	636
530	TCGCATTCACTGACAAGCAT	511
165	TTCGACGTAGTCCGCCAGTC	146
1445	GTTGTTGTGTTATCATATTGAAGATGC	1419
821	TTAAGTTCTTCAGAACGACGAAGTAG	796
323	CGTATTCTCCAGCATTCAACTCT	301

216	GAAGCTCTTCATTAACCTCCTCGTAGA	191
502	TTGTGGCATTGGTGTATCCG	482
144	CGATCCGAGTGTGAACTGCT	125
534	AGTTGTTAAGGTGAGCAGCGTT	513
179	AGTTGTTAAGGTGAGCAGCGTT	158
986	GCATTCTCCTCTCCATTGTCA	966
452	CATAATGGCATAGCAGAAGCG	432
479	TCGGCGGCACATTACATAC	460
477	TCGGCGGCACATTACATAC	458
397	CCAGGAATGATTGGAAGACG	378
242	GGCTGGATTACGATGGACTGG	222
1165	GGAGAACATCACGACCGAAC	1146
233	TTCGTGTTACATGATTCTGCCA	212
382	TCGTCTCACTGCTGACACCA	363
1195	TCTCGCTCTTCACAGACGGA	1176
267	CATTGGATCAGAACAGACAGTGC	245
99	GGACGCATTGTGGTGAGTAAC	79
942	CCGAACAGATACTACACGCTCA	921
998	GAACGACTAATTCAGTCATTCCG	976
432	CACAGAATACACGAATTGATTAATGGCT	405
655	TTCTTCTTACTTCTGATTCTCTGGTT	629
473	TTACTTCCAGCCGTCGTTGC	454
150	ACCGTATTGTCCGCAGGCAT	131
221	TCGCTCTTCTTGACGGATTG	202
4987	CATAGGTAAGCATAAGTTGTGGTTCC	4962
246	GCTTCTCATGCCTCCGTAGA	227
509	GCTCGTTCGCTGTCTCCTCT	490
294	CATTAGGTTGAGAAGTGAAGATGGTC	269
387	CATTATTATTATGAACGGTTGTAAGTGA	360
368	CCAATAGACCACCATCCACCA	348
498	CCAATAGACCACCATCCACCA	478
192	GAGGTGTAGGCGGCGAAGTC	173
161	CGAAGTCAGCATTGTGCGAA	142
332	AATGATCCTGTGGTGTGATGC	312
466	CCTCCGCAATCTCCAATTCT	447
1213	TTCAGGAGCAACACCGTAGTC	1193
479	GCATTGAGGTTGTGGTCGTT	460
1289	GAAGTCCAGCCAGCATTGTAG	1268
1289	GAAGTCCAGCCAGCATTGTAG	1268
1370	TTGAGTTCTTCGTATGAGATTGGA	1347
248	TGACCAAGCATCACTCCGAA	229
291	TCTTGTTCTTCGTCCACTGCT	271
142	CGATTCTGTCTACGGCGAAT	123
704	AAGATGGATTCTGTGGCAA	685

136	AGAAGCAGCGCCTTGTACAC	117
778	GCATATTCTTGTGTCAGGACGAGTG	756
1124	CGGATCTGTGAGAGACCATAACTC	1101
1124	CGGATCTGTGAGAGACCATAACTC	1101
1134	CGGATCTGTGAGAGACCATAACTC	1111
833	CGGATCTGTGAGAGACCATAACTC	810
833	CGGATCTGTGAGAGACCATAACTC	810
843	CGGATCTGTGAGAGACCATAACTC	820
131	TGGATCTTGGTGATTGGCATC	111
131	TGGATCTTGGTGATTGGCATC	111
1094	TTGAACTGTGTAGGCTGGTGAA	1073
1237	CGAGAAGAGCAGGATCGTAGTATG	1214
660	TGCCAACATATTCTGCTCATCTTC	637
252	GCTTAACGTAGATTGCATCTGCTG	229
1453	CGTAACATCAGCAACCTCTCCTT	1431
127	GGTCCGTTAAGCCTTCTCCA	108
124	CGCAGGATTAATGGCTTCGA	105
615	AGCGAAGACGAGCACTGGTT	596
614	TTGACGGTCTTGGTGGATGT	595
1116	CTCTGGCAACGCTCTGTGTC	1097
512	GCTTCCAAGGAGAAGTAGACGGT	490
94	CGATGGTAGCCACAGAGATGC	74
193	TAATCAGCGCAGCCGTACAC	174
901	GAATGTTGAAGAATGCTCGGA	881
901	GAATGTTGAAGAATGCTCGGA	881
403	AACTGCTCCGGTTCTCGAAT	384
585	GAACACAACACTTGGTTCCAGAA	563
561	GAAGTCTTCGGCTGGACAGG	542
137	TACCGGACCGATTAAGCCTT	118
127	CCGTACTAGTAGCCTCCGCAT	107
1687	GATTGGTGGTGGTGGCTTGT	1668
129	GAACCACACCGAACATGCTT	110
1776	GATTGGTGGTGGTGGCTTGT	1757
227	CCTTGATAGCGTCGTCGTAGA	207
355	TTGTCGGAGAAGAGGTAGCAGAA	333
818	AACACTGCTATGACGGTCTGG	798
125	TGTCGTCCTCTGTCATGCCTT	105
120	TTCGTGGTCTTCCGTCCTTC	101
161	GTGTGTGTATGCGTGTTGCG	142
140	CTTCTAATAGGCAAGCGTCTCTG	118
147	GAATCACCTCGCTTACACACTTG	125
1050	TGGATGATGTAGAAGCCGATG	1030
275	CTGATGAGAGGAGTTGAGTGTTGA	252
275	CTGATGAGAGGAGTTGAGTGTTGA	252

275	CTGATGAGAGGAGTTGAGTGTTGA	252
1437	AGAATCAGCCAGAAGAGAGTGTTG	1414
502	CTGTTCCGTTGCTCTTCCTGA	482
719	AGAATCAGCCAGAAGAGAGTGTTG	696
442	AGAATCAGCCAGAAGAGAGTGTTG	419
275	CTGATGAGAGGAGTTGAGTGTTGA	252
275	CTGATGAGAGGAGTTGAGTGTTGA	252
254	TGGATGATGTAGAAGCCGATG	234
492	GAGCAACGAGGCGAATACCA	473
93	GAGCCAACGCCAGAATCTTC	74
767	AGAATCAGCCAGAAGAGAGTGTTG	744
750	GCTGGCTCGTTGATTGGCAT	731
371	GGCGTCATCATTGAACTGGAG	351
284	TGCCGAGAACTCTTATTGTGC	264
405	TGCCGAGAACTCTTATTGTGC	385
223	GGACAGAAGACGGCGGAGAT	204
253	CATTACACCGCTCGACAACC	234
153	AACTACTGTCAATGCCTCCAATG	131
94	GAACACGATGGATAGGAAGCA	74
728	CTGGCAATGGATCAGGCAAC	709
589	GCACAATCACGACACGAGTC	570
136	CCGTCTGAAGTGTATATGCATGG	114
696	ACTCCTCCATCGGCGTGACT	677
148	ACTCCTCCATCGGCGTGACT	129
263	TTGGCATTGTCATTGATTCAATTG	241
263	TTGGCATTGTCATTGATTCAATTG	241
1552	GAAGTCACCATCCTCGTCTCC	1532
256	AGGTGCGATATGTCATAGGTGAT	234
289	AAGAGCCAATCGCCACACAA	270
205	AAGAGCCAATCGCCACACAA	186
1865	AATCTGATAGTCATCCAAGCAACA	1842
749	GCTCCGACTGACATTCTTCTG	728
299	CATCGTAACTGGTCTTGTTGAGT	276
104	CCTCCACCACATCCACAAGA	85
776	ATGAAGATGTGGTTGTTGAAGATG	753
739	GTCCGTCCACTCCAATGAAG	720
327	CGAACATCCAACAGTCTGACCA	306
343	ACACGGAAGGTAACAGCGATT	323
1184	TCATCACCGCCATCTTCCAT	1165
846	GAAGGTGCTGGTGCTCTGTT	827
531	GAAGGTGCTGGTGCTCTGTT	512
747	GTCGGCTCCAGTCACCTGAT	728
617	AAGAGCAAGAAGCACCAGGAG	597
217	CGAATAACTGAACTGTGGATATTGC	193

432	TCCAGGATGAACTGATGCCT	413
2471	TGAGTTAAGGTGGCTTCCGA	2452
2503	TGAGTTAAGGTGGCTTCCGA	2484
962	TGGCTCCACGAACTGATGTG	943
994	TGGCTCCACGAACTGATGTG	975
987	CGGCAGAGAGCTTAGCTGGAT	967
232	AATCGGATTCAGCATCTTGC	213
153	TCTAACATCTAGGCTAAGCTCTTCG	129
897	ATAGTCCTGCTCATCGGTAGTTG	875
11491	TGAGAAGAAGAGCCAGAAGGAC	11470
164	ACGCAACATGCACTGACACA	145
14298	AACGATGACTATGGTGACAAGGAT	14275
866	TTCTCCAGCCTTCAGTTCTTCT	845
793	TTCTCCAGCCTTCAGTTCTTCT	772
786	TTCTCCAGCCTTCAGTTCTTCT	765
801	TTCTCCAGCCTTCAGTTCTTCT	780
820	TCTCTCCAGCCTTGAGTTCTTC	799
1844	TCTCTATCCATACTAATCAGTTCCTCAT	1817
264	G TTCAGGCGCTGAAGTCCTT	245
328	TCCACGAACAGACAATACGC	308
180	AAGAGATGCGAATTCCTGGA	161
191	GTGACTCGCCTCATTGAACG	172
897	TGGAAGGTTCTTGGAATCTGG	877
588	TGGAAGGTTCTTGGAATCTGG	568
678	TGGAAGGTTCTTGGAATCTGG	658
684	TGAGAGACCGTAACCGATTGTG	663
684	TGAGAGACCGTAACCGATTGTG	663
359	GTAACGAAGTGACAATCAGCATC	336
2061	GAACGCTCTCTCTGCTCACG	2042
219	TTGTTGCTGTTGTGATGTTGAGA	197
219	TTGTTGCTGTTGTGATGTTGAGA	197
545	GTCCGAGTATTCGACCAACG	526
291	TTGTTGCTGTTGTGATGTTGAGA	269
457	TGCTTGTGACGGATGTGATG	438
312	TGCTTGTGACGGATGTGATG	293
521	TTGCTGTGTCCTGCTGTCTG	502
889	CCAAGTCGCTGACATCAACG	870
887	CCAAGTCGCTGACATCAACG	868
384	CCAAGTCGCTGACATCAACG	365
1829	CCGATTGAGTCAAGTTGGTCA	1809
522	ACGATACGGCGGCTTCAGAT	503
673	ACAGAGGAGCCGCACACTTC	654
238	GCGGTTAATGTTGGAGGTGT	219
131	GGACAATGTTAGAAGCGAGAGG	110

1421	CGGAGGTGATGGTGAGCAAT	1402
1492	CGGAGGTGATGGTGAGCAAT	1473
1421	CGGAGGTGATGGTGAGCAAT	1402
1492	CGGAGGTGATGGTGAGCAAT	1473
379	AAGTCAGCGAGGCGTGTGT	360
679	CATTGCGTTGGAAGTTCAGAA	657
689	TTCACATTCTCATTACGCTGGA	668
413	CAGTGATGATGAAGAAGTTGGAAGA	389
130	CCTATTGCGTCTAACACACACCTTG	106
141	TTGATGAAGACGGAGACTCATG	120
233	ACCTCACGATTGACGATTCC	214
239	ACCTCACGATTGACGATTCC	220
488	GGAAGGTTGATTGAGCGGAA	469
123	GGAAGGTTGATTGAGCGGAA	104
608	CCACATATCCACTTGAACGCTT	587
594	CCACATATCCACTTGAACGCTT	573
112	GGAAGGTTGATTGAGCGGAA	93
604	CCACATATCCACTTGAACGCTT	583
210	TTGAGTGGCGAACGGTGTCT	191
210	TTGAGTGGCGAACGGTGTCT	191
1366	GCACCAACTCCACTTCCTACTG	1345
362	TTAGGAATACTTGACCAGAATAGGCA	337
1342	CATCACGGACACAAGCATCA	1323
574	CGTAACAGAAGTAGACACCTTGTGA	550
446	TGACCAGCATCGCATCTACG	427
1066	AGTCTTCACGGTAGCACAGGTT	1045
1607	TTGATGTCTTGGATTCCCTTG	1587
701	GTGGAAGATCATCATATTGGTC	677
2551	GATAGATGTTGGCTGGTGTGTG	2529
2407	GATAGATGTTGGCTGGTGTGTG	2385
2216	GATAGATGTTGGCTGGTGTGTG	2194
891	GCATCTAGAAGTTCGTAAGCCATT	868
442	TTCATTCTGTTGTTGGTTGCTC	421
264	TCTCCACATTGATTCAGACGAA	243
464	TGAAGTTGAGTGGTGAGTGGAA	443
416	TGAAGTTGAGTGGTGAGTGGAA	395
600	TTCCATCTCTTCGGTTCCAC	581
132	TTGTTGGCTCTTGGCCTAT	113
465	TTGACTGAAGGCATTAGGATTGG	443
1304	ACTTGTCGTCCTTCCTCATCG	1284
1378	ACTTGTCGTCCTTCCTCATCG	1358
270	GTGTCTGTGTGTGCCATTCCA	249
139	GAATGAGATGTTGGAGCATCTGT	117
234	TCTGAATCGTCTCACAATAAGTTACACA	207

308	CGTCTATTAGTACAGAACAGCCGTGT	283
126	CCGTCTTGCGTATCCACTGA	107
163	CGTCTATTAGTACAGAACAGCCGTGT	138
382	CGTCTATTAGTACAGAACAGCCGTGT	357
163	CGTCTATTAGTACAGAACAGCCGTGT	138
531	TACCAGGCGTGCTCTTACCA	512
569	CAGAATGCCGTGTCTATGTGGT	548
644	TCTCCTGGTCGTCAACATCG	625
665	TGTGGCTGCGTTGTTAGTCG	646
726	GGAAGAAGTTGATTGGTTGGAA	705
150	TCCGTCGTCTCCAATACCA	131
3568	AAGACGGAAGGACGATAATGCT	3547
3566	AAGACGGAAGGACGATAATGCT	3545
125	TTGATTGATTGGATAAGTAGAGCTTC	100
993	TTGTTCTTCCACCTTCCGCTT	973
1034	TTGTTCTTCCACCTTCCGCTT	1014
327	ACATCGGATACTGTACTTATCAGACAA	301
172	CGAACCTGGCGGAGAGAGAA	153
251	GCAGTCAAGCGACTACGTCTT	231
148	ATGTGCCGTCTTCATCATCA	129
130	CATATGTCTCCATGCGTTACGAA	108
290	CGGAAGAGATGTAGTGCAATGGAG	266
225	TTGATTACCGATTACCATATACACG	201
451	TGCTCTTGGCTTCTTCGGTA	432
2076	GCGGCTTCTTCTTTCGTAA	2057
1902	TTGACTACGGTTGGCAGATTG	1882
174	GCACAGCTCAGAGTACAGAAGACA	151
330	AGCATTATTCCATACGATCCAAT	307
276	ACCATCCACACAACATCCGT	257
543	AGTAGACATTCTGGACATTGACGA	520
254	AATGAAGTTGATGTTGAATTGCTAGT	229
462	TTGTTGAAGATGATCGGAACG	442
745	TGTTCCAGTGATTCTTGTATCCATA	721
703	CATCGGAATATGATACTTCAGGAA	680
338	AGGAATAGAGCAACAATGAGAAGAACAG	311
1222	GAAGCAGCAATGAGATGAATACAGT	1198
634	CCGTGACTCGATCACTGCTC	615
1183	TCTGGAGTGGTCGTTGAACA	1164
1152	TGGACGAGGAGTTGTTGAGAA	1132
1170	TGGACGAGGAGTTGTTGAGAA	1150
257	CCAGAATGTTCAAGTTCGATTGC	235
160	ACAGTTGGCATGAAGATCCAA	140
568	CGTCACATCGTTCGTATCGG	549
1061	TAGACAGCAGTTCCTTGAGCAC	1040

1065	TAGACAGCAGTTCCTTGAGCAC	1044
564	CGTCACATCGTTCGTATCGG	545
549	TAGACAGCAGTTCCTTGAGCAC	528
846	TAGACAGCAGTTCCTTGAGCAC	825
547	TAGACAGCAGTTCCTTGAGCAC	526
1091	TAGACAGCAGTTCCTTGAGCAC	1070
539	CGTCACATCGTTCGTATCGG	520
438	CGTCACATCGTTCGTATCGG	419
521	CGTCACATCGTTCGTATCGG	502
1059	TAGACAGCAGTTCCTTGAGCAC	1038
1135	GCTCCTCTGGTCTTCTGTCAAC	1114
163	GCAAGAGGACCACGACTGAT	144
229	TTGATTCGCAACAGATAAGACAGTC	205
612	TTGATCTATGTCAAGCCTGTGC	591
869	CGACCGAGCAAGATAGCCAT	850
1112	CGACCGAGCAAGATAGCCAT	1093
2232	ATGTGGCGTGGTGTGGATG	2213
125	GGTGTACGTCGTCGAGGAC	106
172	TCAACTTCTGCTCGGTCAATC	152
97	TCAACTTCTGCTCGGTCAATC	77
1279	TGAGAATGAAGAGGTTGGTTGG	1258
1629	AGTAAGCCATCCGTCCTCATC	1609
644	CCTCCATCTGTTCTTGCTCA	624
776	CCTCCATCTGTTCTTGCTCA	756
324	CAGAGCAATGTGGAATGTCACT	303
129	TTCCTCGTTGAACAAGCTAATAGAG	105
241	GCCTCCTCTCCAAGTAGTCCTC	220
135	TTGATCCGTTTCGACATGAGC	116
135	TTGATCCGTTTCGACATGAGC	116
355	CATGTCTTCCAGCTTCTGACTCA	333
1346	CAATGACGACGTGAGCGAAT	1327
235	TCCACTTCTTCTCGCTTCCA	216
235	TCCACTTCTTCTCGCTTCCA	216
460	GAATGCTTCACGGAACCAAT	441
460	GAATGCTTCACGGAACCAAT	441
1127	CGACGAGGAAGTATTGCTGCT	1107
952	CGACGAGGAAGTATTGCTGCT	932
1028	CGACGAGGAAGTATTGCTGCT	1008
1133	CGACGAGGAAGTATTGCTGCT	1113
379	TGATTCCGAGATCAATGTGCTC	358
382	GGATGAGGATGAGTAGACGGTTC	360
361	AACGAGTATGATTGCGACGAG	341
672	GGACTGTCATCAAGCCGATT	653
1435	AAGGTTCGTCTGTGTCAGTCCA	1414

323	CACATAGAGACCAGAGGAATGACA	300
1871	GTCGGAGCATTGTTGGAAGT	1852
460	GCATAACAGGCTCACGGAAT	441
801	GCATTGCTCGTCTGCTGTGC	782
913	CTTGTTCTGATTGATTGTTACTGGTC	888
244	CATCTGGACTGTTCTCAACGAA	223
615	GGTGCTGTTCCGTCTGGTGA	596
1161	TGAGCAATAAGTGGTGGAGACA	1140
1198	TGAGCAATAAGTGGTGGAGACA	1177
1178	TGAGCAATAAGTGGTGGAGACA	1157
338	GTTGTAGGATCGCTCATCCG	319
239	CCTCATCAAGCCAGACATCG	220
685	TGTGTTGACGGAGTCGTTGA	666
887	ATCATTGTGGAGCATTGGCA	868
741	GAACGCCTCTCGGAAGCAAC	722
741	GAACGCCTCTCGGAAGCAAC	722
741	GAACGCCTCTCGGAAGCAAC	722
741	GATGGAGGTGGAGGCGAACT	722
741	GATGGAGGTGGAGGCGAACT	722
437	CTGTCAATGCCGCAGGTAAC	418
232	TCGTGTTGATGAGTGGATGC	213
223	TCGTGTTGATGAGTGGATGC	204
844	GCTGGCGTGGTATCAGTGTC	825
839	GCAACACCAACATCTATTCCAA	818
196	GGTCTTCTCTGCATTGGCCTT	176
1836	AAGATTGTGTGCTCGTTCCG	1817
416	GTGGACAAGCGGACGATGAC	397
661	GCTCTTGGAACCTCGTTGATAGTGTGA	636
170	CTCATCACGCTACGACAGGA	151
1000	CGTCGAGGAACTGATAGTTGTTCT	977
292	CGGCAGGTGAATCGTGATAC	273
292	CGGCAGGTGAATCGTGATAC	273
2886	TCTCCGCAATCACACTACGCT	2866
820	TGTTTCATGTTCTCCATGACAGC	799
146	GAAGATTAGCAATTGTAACCTCATGT	121
253	AACGAATAACGTCCAATAGCCTT	231
485	ATGAGACTCCGTGGCATACTG	465
871	CTTCTGCTTCCGCCTCTTGA	852
517	GAGTGTTTCGTTAGAGTTCCTGATTG	493
175	CAGACGACGATGATGAAGTAGATG	152
1732	CACTGAGTGATATGAGTAGTTCTGCTC	1706
552	GAATATTGCGAATGCTTCGTATG	530
1676	GTACACAGAACGCAGTTATCGG	1655
316	TTCTCTTCTCTCGATTATCATATTCTTC	289

187 GCATCAACTTGACGAAGTGGAT	166
719 GGAAGTCGTAATCAGGCGAA	700
716 GGAAGTCGTAATCAGGCGAA	697
275 GTGGACGGCTACTGCTGCTG	256
328 TGGCAATGACAGCAAGAGTG	309
617 AGAGGCAATGCAGGTGAACA	598
583 CGAGAGCGGTCACCAAGTTG	564
635 TGATATTGTCTCCGTGACCAGTT	613
156 CTCTTGATCCAATGTACCGTCGTAG	132
1295 TTCCTTGTGAATGAGGTGTCC	1275
1295 TTCCTTGTGAATGAGGTGTCC	1275
625 GTGATTGACGTGCTGGTGAG	606
958 GTGATTGACGTGCTGGTGAG	939
1472 TTCCTTGTGAATGAGGTGTCC	1452
231 GGAGAAGCCGAGACTCATGC	212
268 GGAGAAGCCGAGACTCATGC	249
172 TCACCAATCCATCCGCACAC	153
160 CTTGTTCAATTATCAATCATTCGTTCT	135
183 CTTGTTCAATTATCAATCATTCGTTCT	158
628 TCTGTGAATTGAAGGTAGGAAGG	605
810 AATCTGGTGGTAGACAGCTAAGATG	786
177 GCTCCATCGTCCATTCTACT	157
1044 TAACACCTTACGCCGCACTC	1025
783 GACGAGAAGTGATGGAGCGA	764
752 GGACAGAACAGAATGATTGTTGGC	729
760 GATAATCACGGCGTACTGGAA	740
332 CTTACAGTCGTTGCTCCAGGA	312
597 ACGAATCAATGAATGAGTGGAGTT	574
591 ATTGTTCCATCTCACAGATCCATC	568
1062 CCAGGAACCAGGCTAGACACA	1042
168 GTTAATGGTCCTGCAGCGAA	149
262 AGTAAGAGAATCGGTGTGGCTAAC	239
707 GTTCGGTTCAAGTGCTCCTC	688
707 GTTCGGTTCAAGTGCTCCTC	688
148 CGCTTCTCATCTTCTTCAGGAC	127
133 CTGGCTTCGTGATTCCTTGG	114
1679 AGTCTGGTCTGGTTCTGCGTA	1659
569 TCATCCAACCATTCCTTCCTT	549
328 GTGAAGGTGACGGTGACGAG	309
328 GTGAAGGTGACGGTGACGAG	309
320 TTATTGTCAGAATACCGTCCGAA	298
456 GGCGGTGAGAGTGACAAGTG	437
139 TTCTGTCATAGTCTTGTACGGTACG	115
141 GTACGGCAGTGCCAATGGAA	122

477	GCTGGTGCCGATTCTTCTAC	458
165	GCTTCGGCAGTTACAAGTTGA	145
477	GCTGGTGCCGATTCTTCTAC	458
321	AACCACCATACACAACGTTGC	301
477	GCTGGTGCCGATTCTTCTAC	458
477	GCTGGTGCCGATTCTTCTAC	458
130	GGCATATCACTAATATCAGCCATTG	106
130	GGCATATCACTAATATCAGCCATTG	106
130	GGCATATCACTAATATCAGCCATTG	106
118	GAAGGCCGAAGAAGCAGATG	99
1035	TCCTCTTCTTCTTGATTGCGA	1015
279	TGGAATCCGTTGATCTACTGG	259
1086	TCCTCTTCTTCTTGATTGCGA	1066
568	TTGGAACAGCAGTGGAGACA	549
1051	GCTGTGTGATGTTACCATCGCTA	1029
1181	GCTGTGTGATGTTACCATCGCTA	1159
1081	GCTGTGTGATGTTACCATCGCTA	1059
1211	GCTGTGTGATGTTACCATCGCTA	1189
749	CGACTGAAGAACTTGTAGCACAGC	726
998	GCTGGAATAATGCGGACTGG	979
547	CCGAATCAGAAGGAGCACAT	528
157	CTGGCAGCCTAGTGTCGTT	138
580	AGCCATCGGAAGCATACGGT	561
566	CCTTCTGATGTGTATGGAGCAACC	543
1856	AGCAGTTGGACGGACGGTATC	1836
127	GAACCGATTGAGCACATCCG	108
1944	ACGGTAGAGACGGAGGACAAC	1924
2004	ACGGTAGAGACGGAGGACAAC	1984
1785	ACGGTAGAGACGGAGGACAAC	1765
214	CAACATTCTGCGACCACCAA	195
316	CGGACTCGTTGGAGGAAGGA	297
490	GAGGTTGAGAGAATTGTGCTAGAAG	466
490	GAGGTTGAGAGAATTGTGCTAGAAG	466
133	ATGGCGAGATGGTAGTCACAGC	112
157	CCGAGAATTGTGAGCAGAATG	137
134	TGGTGAGAAGAATGTTGATGGC	113
367	TCCAGGCACTCAGAATCCAG	348
549	TTGATGAGTTGGAGCGGTTG	530
386	GGTTGCGGAGGATTGTGGTT	367
283	ATGTCTCCTTCGTTGCGGTT	264
430	ATCCACACGAGCATCCTCCT	411
342	CTTCAGCGTACACTGCGGAA	323
127	CGAGATCCTTCAATTCTGTTC	106
1358	CAGCAAGAGCGAGACGAACT	1339

1424	CAGCAAGAGCGAGACGAACT	1405
142	CACATTCAGTATCATAACCTTCTCGT	117
167	ACCGAATTGTTCAACGAGT	147
136	CGAGTGTGATTCCAATCAACGA	115
281	GATACAGCGACTGAAGTGAACG	260
550	AGTGACAACCTGTAGACGCCAA	529
1012	GCGACTTCATTGGACGATACG	992
1032	GCGACTTCATTGGACGATACG	1012
1012	GCGACTTCATTGGACGATACG	992
177	CGCATTCTAATTCTGTGAGACCA	155
1330	CAGCACAAGTAGATCGAAGACG	1309
715	CAGCACAAGTAGATCGAAGACG	694
939	CAGCACAAGTAGATCGAAGACG	918
585	ATCAACACCGAGAGAATCCAAT	564
585	ATCAACACCGAGAGAATCCAAT	564
238	TCAACCATTCCATCCTCCATT	218
163	TCAACCATTCCATCCTCCATT	143
125	AGGACCAAGTGCCATACAGAGC	104
589	GGTTGATTATAACTGTGCTCCTGTGG	564
732	AGTAGGTCCTGCTGAGGTTGAAG	710
157	AAGGAAGCCACCAATGAAGC	138
229	CGGTGATCTGTCATCGTTCA	210
708	CGTCTTGTTCTCGGCAGTGG	689
1670	GTTCTGTCGTGCTCCAGGTC	1651
296	GCTTCATTGGTGGCTTCCTT	277
1813	AGAAGACTGTTGCGGATACCAT	1792
151	TGGAAGTGATCTTGTCTGAAGTGAC	127
855	AAGCGGAGCAAGTGAGCATC	836
855	AAGCGGAGCAAGTGAGCATC	836
655	CAACATCGGTGGTCTATCGTT	635
357	CGGTATTGGAGTTGATGGAAGT	336
993	ACTTGCGTGGCAGCATCTTG	974
879	CGGAGATGAGGAATGAGACG	860
1505	TTGTGGTTGCTGTGGACGAA	1486
868	AATATTCATGATTGCCAGTTACGAA	844
918	AATATTCATGATTGCCAGTTACGAA	894
1140	AATATTCATGATTGCCAGTTACGAA	1116
460	CGCTGTAGTTACTTGTATCCTTGGC	436
2591	CATTCGCATAGTGGTTCGCA	2572
495	TGAGTGCAGTGTACGCCAAT	476
495	TGAGTGCAGTGTACGCCAAT	476
546	TGAGTGCAGTGTACGCCAAT	527
366	CATCTACTGTACGCCGCAA	347
235	CCACCACGGACAGCAATCAC	216

1094	GGTGTGTCCGTGAGGTCTGT	1075
1203	TGGTGAAGTTGTTGATATTGGTG	1181
546	TCGTCAGTGGAATCAGGCAT	527
546	TCGTCAGTGGAATCAGGCAT	527
147	GCGATTCTACCGTAGTCTCAATG	125
1397	GCTGGTGTAGTTGGAGATTGATC	1375
91	CATCATCTGCTTGTGGTTGGA	71
1319	GCTGGTGTAGTTGGAGATTGATC	1297
1013	ATCGACATTCACGAGACCGA	994
537	TCTCATATGTTTCATGCCACAGG	516
99	CCGCAGAAGAAGTAACCGTCA	79
130	CCGCAGAAGAAGTAACCGTCA	110
698	CAATCGTAGTCGGAGAACAGG	678
1096	CGATTGACATCCGTAGGAGCAT	1075
129	GATGGCATATCTTCCTTCACTTCT	106
705	AACATGAGTTAGAATTGGAATAAGGTT	679
461	AACCTCCAATCAGCGTCCGA	442
671	ATAAGAGTTGTTGAGTCAAGCATAGC	646
374	CTGGCGACTGAGATGTAAGATTC	352
410	AACGCATGGCAGTTGTGTCC	391
369	CGAAGAATCCATAGCGGAGTCT	348
466	TAGCGAATGCGTGACAGTTG	447
706	ACAAGTCGGATGTTGCGTA	687
139	ATGTTGTGGAGGTGGATGCG	120
395	CCATTATTCTTCGCTCCACAG	375
915	CCAGACAGTTGACGGTTCCA	896
667	TGATAACCGAGTCGAGAAGTGC	646
974	GCATCTTCCACACATATCAACG	953
516	CCATCCAATTAGTTCCTCTCCA	495
965	TCAATGACGAATTGTGCATGT	945
1491	ATAGAAGTGGATGAGATGATGACG	1468
130	CAGGCACGCAGAGTAATCGC	111
139	CGGACACGGTTATCAATTCC	120
140	CGGACACGGTTATCAATTCC	121
162	CGGACACGGTTATCAATTCC	143
140	CGGACACGGTTATCAATTCC	121
224	TGTCCGATCTCTCCGATGTAC	204
165	CGGACACGGTTATCAATTCC	146
143	CACATCTCTCTGGTGAGCGATT	122
1164	AGTCCGAATCTGTTGGTTGG	1145
225	CCTCATCATCAGCATCCTCATCA	203
225	CCTCATCATCAGCATCCTCATCA	203
193	TCATCAGCATCCTCATCATCTCCT	170
193	TCATCAGCATCCTCATCATCTCCT	170

227	CCTCATCATCAGCATCCTCATCA	205
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196	TCATCAGCATCCTCATCATCTCCT	173
195	TCATCAGCATCCTCATCATCTCCT	172
131	TCATCAGCATCCTCATCATCTCCT	108
226	CCTCATCATCAGCATCCTCATCA	204
226	CCTCATCATCAGCATCCTCATCA	204
1707	AGTTGTTGGTGGTGAGTCGTC	1687
183	AGTTGTTGGTGGTGAGTCGTC	163
308	ATGGAGAGCGGTAAGTCGTG	289
175	GGAGTATCGGTAACGCAGACA	155
3833	TCGTCGTCGTCCATATCACC	3814
3824	TCGTCGTCGTCCATATCACC	3805
3822	TCGTCGTCGTCCATATCACC	3803
3939	TCGTCGTCGTCCATATCACC	3920
3813	TCGTCGTCGTCCATATCACC	3794
3930	TCGTCGTCGTCCATATCACC	3911
3633	TTCTGACTATATTGATGATTCTGGAGA	3607
3750	TTCTGACTATATTGATGATTCTGGAGA	3724
3626	TCTTCTGACTATATTGATGATTCTGGA	3600
3743	TCTTCTGACTATATTGATGATTCTGGA	3717
3644	TTCTGACTATATTGATGATTCTGGAGA	3618
3637	TCTTCTGACTATATTGATGATTCTGGA	3611
123	CCATGACGCAAGTGAAGGATT	103
125	TCTCTCTCTACGAGGATTGATTGTGA	100
985	TAAGGATAGCAGCGGCGAAG	966
1241	TGTCATCGCCAATAGCAGAA	1222
376	CACAAGTGTTACAACATTGGATCA	353
466	TCAGAAGCCATTCTACCAAG	446
356	TCCTCGGCTGGAGCATCTAC	337
507	GAGTGGTAGAGCAGCCGTGTT	487
163	TTCTCGATACCTTGCGAAGG	144
360	GCGACTGCGTAACATCAACA	341
777	CTCCATCTCCAGCAACCATT	758
416	AAGTTGAGACGGATCATCGC	397
276	TCCTTCTTGGTCCTGTCCTCT	256
475	TGTTGTGAGAATTCCAGAGACCA	453
634	AGTCGGCGGAACCTCTCGTCA	615
2477	GGTGGTAGTGATTGCGTTGGA	2457
2477	GGTGGTAGTGATTGCGTTGGA	2457
2465	ATTAGAGCCAATGACGCCAA	2446
315	ATACTATGACAGCATCCATCGTGA	292
2367	AGATGGTCTACGTTGAGCAA	2347
2480	AGATGGTCTACGTTGAGCAA	2460

1223	AGATGGTCTACGTTGAGCAA	1203
2180	AGATGGTCTACGTTGAGCAA	2160
2489	AGATGGTCTACGTTGAGCAA	2469
1013	AGATGGTCTACGTTGAGCAA	993
326	CGAATTAATGGCATATCCTCATG	304
716	TGTGTTGGAGGCATGATTCG	697
457	AGTAGGATTGTGACGGTGGCT	437
164	GGTGTATCATCGGATTGTTCTCTT	141
196	TGATCGTTCATCTGCTGCTCA	176
226	GGTGGAGTTGTAATTAATGGATTCC	202
819	CCTCGTCGTCATATTCATCTCC	797
817	CCTCGTCGTCATATTCATCTCC	795
125	AGAGGACTGGCCGAATGATG	106
136	AAGGCTCAGTGAGGATGAGAGTT	114
181	AAGGCTCAGTGAGGATGAGAGTT	159
194	AAGGCTCAGTGAGGATGAGAGTT	172
360	ACCGAGATGAGCAACTTCCAC	340
717	CTTACAATCTCAATGATGTTGCG	694
294	TTGGAGTATCACCTTGAGACC	273
127	CCACTCCAGTCAACCACCAATC	106
608	TCTAGCTCATGCAGTGTGTTCAATG	584
141	TTCCATTGTTCCAACCATCC	122
145	CATCAATCTGATGCACTTCTCAA	123
1327	TGTTGACGAAGTCTGGATAGCGA	1305
123	CAACCTGAGATCCTTGCTACTCA	101
1225	ACCGTCACCATTGTTGCCTT	1206
181	TGCTCGGTGAAGGATCTGAT	162
176	ATCATCTTGGTCTAGGTCATTAGAATC	150
236	CATTCATCTTCATCTCAGAGTCGT	212
165	TGGACTATTGCTGTTCTCGTCTAAC	141
146	TCAACTGGAGCTTCTGTATTCTGA	123
388	GCAGGTCCAGTGGCGTGTAAC	368
229	TTCAGCTTCAGAATGAGAATCTCG	206
213	AGATCCTGTTCTTGGCTCTTGA	192
101	TTCGGAGTTGAGAGATTGGAGTG	79
408	ATTCTCGAAGTTATGCTGCCA	388
245	AACTTGAACATCCTTCTTGCGA	224
465	ATGGCTGAATCGGATAAGGC	446
1589	GTGAACTCTCTCCGTGTCTGAT	1567
509	AATTCTTCTTCAGTGGTTCTTCTCG	485
193	GGTAGGAGTAAGTGGTGTGAAAGTCG	168
659	AACTTGATAGATCTTTCGCTCTTC	635
202	AATGATTCCTGACCACCACAA	182
337	CCGAGCAGAGACCGTTAGAAGC	316

215	CCAACTGTGACATCCAATCGG	195
303	TGCCGTTCTATTGTATCATTCCA	281
328	TGCCGTTCTATTGTATCATTCCA	306
275	TCGCTTGACAGATGTCACTCC	256
201	ATGGCTGGATGTTGGCTTCT	182
3118	GCGAGCGTGAGAGTGAACCA	3099
3302	GCGAGCGTGAGAGTGAACCA	3283
325	TTGGATGACACGCTCTTCGC	306
141	GCGGAACGTCGTACTTAGCTA	121
122	TTCACATTGTCTCATGCTCCAA	101
218	GATAACCATCTTCTTAAGCTGCGA	195
601	GACTACGAACAGCTGCTGAGTAAC	578
695	GTGAATCGAGGAACGACGTG	676
117	TCAGCTGGAGCAACTAACGTCA	96
1011	CATCGGCTTCGTCGTCTTCA	992
137	AGGAATGCGGTGTGAGACTG	118
255	AGGAATGCGGTGTGAGACTG	236
757	AATCTAATCCACCGTCTGAATCGTC	733
684	AATCTAATCCACCGTCTGAATCGTC	660
270	GAGGAGTTCAGCGTCAAGGC	251
448	GAGGAGTTCAGCGTCAAGGC	429
423	GAGGAGTTCAGCGTCAAGGC	404
543	TCATCGAGGATAATGTTGAAGTCA	520
1757	TGTCGGTTCACCTTCTTCAGTT	1736
120	ACTTCTCCACATCACAATCACAAC	96
127	ACTTCTCCACATCACAATCACAAC	103
375	AGCACAACGGAACACTTATCG	355
181	AGCACAACGGAACACTTATCG	161
1694	TGGATTGATGTTGTTGGAAGTC	1673
1694	TGGATTGATGTTGTTGGAAGTC	1673
646	TTCTTGGCGGCTTCACTCTC	627
687	TTCTTGGCGGCTTCACTCTC	668
278	CATTCATATTCTGTAGAGAATCTATGCA	251
171	ACACACATCTGTCACACCTCCAAG	148
1436	CCTCAACAGTAATAGACCGACGA	1414
1413	GGACTTGAACGCACATACGG	1394
1413	GGACTTGAACGCACATACGG	1394
295	GGCAGCTGTAGGACACCACT	276
161	GTCTGAATCACAATCCTGTGTCAT	138
583	AGTGGCTCTCCGAAGAATGG	564
114	CTTGGCAAGGTTGTTGAGCT	95
260	TCGTGGAGCAACTTCATTAGC	240
261	CCAAGTGTTGAGAAGAGTCAGGAG	238
156	TGCTGAACTGAGATTCGATCC	136

1914	TATTCCACCAGGTCCGAAGA	1895
553	TTGCCGTCCTGATCTCGTT	534
212	TTGCCGTCCTGATCTCGTT	193
203	TTGCCGTCCTGATCTCGTT	184
968	AGCGAGCCAATGAATGAAGA	949
218	TTCTCTTCGCATGTCCTCTTG	198
209	TTCTCTTCGCATGTCCTCTTG	189
139	GCTTCACTTCATTGTGGCATT	119
288	CCGGTATTCTACACGTACAGCA	267
374	CAGATCATCGATGAATGCTACCATT	350
440	CGAATGTGGAGGAATCGTCT	421
231	AGTGCTTGTTCCAGATGCCA	212
1258	TTGATGTCTCTCTACGATTACACCA	1234
1316	TTGATGTCTCTCTACGATTACACCA	1292
1255	TTATCCGTGTGAATATCAATATCTGG	1230
1245	CACACACAACAACACGCCAT	1226
680	GAAGAGGTCGGCGATTCACT	661
789	GAAGAGGTCGGCGATTCACT	770
261	TGATGATCGGATCGAACTCC	242
5808	TCTCTTCCAGTTGCTTCCGA	5789
248	ATTGGACCGAACTCCGAGTG	229
295	ACCTGGTCATGTTCAATGGCA	275
133	ACATCGTGCCGATTGAGGTT	114
197	TGCTAGATCAGGAGGTGATAGACACA	172
355	GCTCCGTAGAACTGTATGTCCAA	333
581	GTGAGGATCTTCATCATGTAGTCG	558
582	GTGAGGATCTTCATCATGTAGTCG	559
141	ATATCCGGCGCATCAAGTAC	122
704	CACAAGCGAATGTCAGAACG	685
539	TAATCAGACGATATGTGTGATATTGG	514
720	TGCAGAGCATCCATTCACAA	701
972	CTTGTGGTAAGAACCCGATCACTT	948
627	GCATTGTATACGGAAGTCTTGG	605
680	CGTTACACGTGGCACCTGAA	661
151	TCAGTTCACTCTCAAGGTTAATTGTCT	125
1650	CGGCAAGTTGCACACACAGA	1631
1088	GACTCTGCCGACTGATGTGC	1069
391	TTCGATGGACAACCTGAAGGTAGA	369
530	TCATCGATTAATCTCATCGCTCT	508
1372	GATTCCAGCCATTCCAGGTG	1353
1447	CACGGTCCACTTGTGTTGA	1428
817	CGAATCGGATGTAGCAATTCTTGT	794
207	GGCAGAACAGAACCAATACGA	187
277	TTGTGCCGAATACCATCCTT	258

272	GAGAATCAGGCAAGGTGACACT	251
1305	AGGTCGTGCTGCATCCAGAG	1286
571	ACTGAATCGCCGTCGTCCAT	552
393	GTACGAGTGGACGAACAGAGTG	372
576	AGGTCGTGCTGCATCCAGAG	557
1305	AGGTCGTGCTGCATCCAGAG	1286
1305	AGGTCGTGCTGCATCCAGAG	1286
200	TTGAAGATGTCGACGACCGT	181
655	CGATGACTGTTGGTGACACG	636
374	GATGTTGACGAAGATGACGACTC	352
763	CGTAGCGAAGGTAACAGTGATTG	741
361	AAGCCAACCGCACAAGTTAC	342
770	GGCTCTTCTCCACCACGGTT	751
246	TTGACGAGCTGAGACAAGTGTGA	224
222	ATGCCTCCTGGTTGATTGTG	203
926	GCCTCGGTGTTATGATGCTT	907
846	GCCTCGGTGTTATGATGCTT	827
1207	AAGCATCAGTAGGCGTTGTTG	1187
1249	AAGCATCAGTAGGCGTTGTTG	1229
1007	TCGCATAGACTCGGCTCTT	988
767	TGGTAGCGTCTTGTAGCATTCC	746
1498	CCACATACGACGGACATACTCTC	1476
1498	CCACATACGACGGACATACTCTC	1476
1183	CCACATACGACGGACATACTCTC	1161
1183	CCACATACGACGGACATACTCTC	1161
319	GGTGTATGCGGAGTGAATCAGAA	297
395	CCTGCATTATTGATGAGAACGTC	373
208	TTGTCGTGGAGTATCGTCGTT	188
211	CCTTAGAGCTGACCACTTCGC	191
205	AGTTGCCTTGTTCTTGTCG	186
422	TCTCTCCTTCGTCGGTGGTG	403
1065	TTGGTTGGCAGTGTGCGAAG	1046
1059	CACACTTGCCACCTCTTCCT	1040
389	GCGTTGTTGATGAGAATGTCG	369
224	ATCTTCTTCCTTCATCCGCATT	203
198	TTGAAGATGATTGTCCTCGCT	178
3705	TCGTATTGTCCAGTCATCTCATTC	3682
3702	TCGTATTGTCCAGTCATCTCATTC	3679
1196	ATTATCAATGTTTCATGGCATCG	1175
253	GCTCCTCCTCCAATGATTAGAACATC	228
138	GTCGCACACTCCAACACAGC	119
360	TGGAGATCGTTTCAGCAGAGAC	340
1455	AGAGGCTGCTTGACTTGCGA	1436
2273	GACAGCTCAACCAATGGATTACC	2251

1739	GACAGCTCAACCAATGGATTACC	1717
973	CACGAACCATCACACCACTG	954
695	CATGGATCTCTTGATTGTTGTGTC	671
3223	CAACATCTATTGGAGAATCATCTTCA	3198
1768	TGTCGGTGTATGTGGTATGAGTCG	1745
303	TGGTCCTAGTCACATCTTCCG	283
651	CTGGCGACGAGAATCAGGTG	632
404	CTGGCGACGAGAATCAGGTG	385
447	CAGGAATGAGTTGGTTATGAGTGA	424
133	CGGCAATATCCTTCTCGATGTTG	111
133	CGGCAATATCCTTCTCGATGTTG	111
155	CGGCAATATCCTTCTCGATGTTG	133
120	TCCGCCACTGAAGAGGTTGT	101
120	TCCGCCACTGAAGAGGTTGT	101
202	TCCGCCACTGAAGAGGTTGT	183
543	AACGGTAGGTACGGTACACTGG	522
335	TGACGGTCTGGAGTACAGTCG	315
661	CATGGAGCATAAGACATTGTAGACC	637
296	TCCAACACCACCTCATACACATCT	273
493	AGATACGCTGATGCTGAGAACC	472
841	CCATCCAGGTAGATTCATTACTCG	818
850	CCATCCAGGTAGATTCATTACTCG	827
102	CCGAAGAATGATGCCACTCA	83
132	GTCCAGAGTGATGCCGAACAAC	111
1068	AAGCGTCGGATTCGTTTCGTC	1049
347	TTGATGTTATCAGCAGTTGGCT	326
714	CACGATCCAAGAGATCCAAGACTACA	689
1710	GCACTTGTTCTCTGGCGATT	1691
698	GCCAGGTATTCGTTGCGGTT	679
239	AATGACCACACTGAAGGCTGA	219
545	CTCTTGACTCTCATATCCTTCTTGG	521
968	GCGTCGTAGAGATGGATGTAGC	947
265	ATGTTGCATCGCTGCTTCCA	246
312	CATCCACCATTGCTGACTCTT	292
377	GTGGAGCATCTGGTGGTGAA	358
1846	GCAGGTACTTGATCTTGTTGTAGAAC	1821
1585	GCAGGTACTTGATCTTGTTGTAGAAC	1560
1752	GCAGGTACTTGATCTTGTTGTAGAAC	1727
1684	GCAGGTACTTGATCTTGTTGTAGAAC	1659
160	CACAATCCAGCCATCACCAA	141
233	GCACTCCACCAGAATCCGAA	214
271	GCACTCCACCAGAATCCGAA	252
169	GTCTTCTCTCCTTATCCTCTTCACA	145
142	GTGCTTGTGCAGCTAATCGC	123

112	GTCTTCCTCCACCGTTACCAT	92
877	ATACTACATTGGCACCTTCTTCG	855
871	TCGGTGTTTCCTTGTTGTGACG	851
801	TCGGTGTTTCCTTGTTGTGACG	781
787	TCGGTGTTTCCTTGTTGTGACG	767
284	TCTTGAGGCTCTCTTCAACATTG	262
326	CTTCGTTATCTCCGAGATAGACTCTT	301
735	GCATACTGATTGAGAAGTCTCCACATTC	708
135	CACACCTTCTCCAGGAACCA	116
600	GTAGCCTACTCCATCCAATATAACATAC	573
214	GGATGACGTGGATTGAGGAC	195
151	CGCAGAAGCAACAGAATCCG	132
1037	GTCATCCAACCGCACACGAC	1018
921	GTCATCCAACCGCACACGAC	902
189	GCAAGCATCACAACACAACAC	169
132	TTCCTGGAGTGCAACCTGAT	113
148	CGATATCCGAGTAGGAATTGTTG	126
712	GGTTGTTGTATGGCGGTTCTCC	691
910	CAACAGTGGTGCGATAGTGC	891
305	ACGGCATCATAAGACGGCAA	286
98	TGACAGCCAAGTATCAGAGGAGT	76
210	AGCCATTCCATAAGTGTCTCG	189
329	GATGCTGTCGCTATTGTTGTCA	308
433	GATGCTGTCGCTATTGTTGTCA	412
1280	TTGCTTCCTGTGTTCTGTTCTACT	1258
157	TCCGCTGCTCCACAGTCTTG	138
1044	TTAATTGCATGCTAGGAGGTTCAAG	1020
284	GCTGAACCACCAAGACGGAA	265
1352	TCTCAACGTGTGGAGGCAAC	1333
1298	TCTCAACGTGTGGAGGCAAC	1279
123	AATCTGGCGACTTCTTCTACTCC	101
193	TGGAATCAGAGCAGAATGAGATG	171
116	TTCGACCGTTGTGAGCAGAA	97
165	ATTCGAGATTCGTCGCTGTC	146
368	GGTCCGCTTGATGTACGAGT	349
411	AAGACGCCAGCCGAAGAAGT	392
626	AAGACGCCAGCCGAAGAAGT	607
429	TGTGAATATGTCTATTCCGATGGAG	405
470	CGTACTCATCGTGACTCTCATGGTAC	445
577	CTTCCTCCATTCCAGTGACG	558
577	CTTCCTCCATTCCAGTGACG	558
102	GAAGTAAGCTTCCGACGACCTC	81
163	TGAGAAGTAAGCTTCCGACGA	143
289	TGAGAAGTAAGCTTCCGACGA	269

530	CGGCCATCATCAGGAAGCTC	511
263	TGTCATGTCACTGGTTGTAGTGTAC	238
815	CGAAGTCTCCTCTCCGTATGTG	794
738	CGAAGTCTCCTCTCCGTATGTG	717
824	CGAAGTCTCCTCTCCGTATGTG	803
723	CGAAGTCTCCTCTCCGTATGTG	702
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135	ATTGAAGTTCCGGATCGTGA	116
875	GAATGTAACCGAAGAGCGTCA	855
343	GGACAAGGCATAGAACTCTGGAC	321
439	CATTGGTTGGAACGGAAGAG	420
439	CATTGGTTGGAACGGAAGAG	420
162	GGAATTGCCGTCGAGTTCGT	143
936	CGGTGGTTGAAGTGGTTGGA	917
1043	CGGTGGTTGAAGTGGTTGGA	1024
242	TGTTGTCTGCTTGTTGTTTCATTCC	219
147	TGAATCAGCTTGCCAGTTCTTC	125
349	CATAGGACAAGCATGGCGACT	329
184	TTGAGGTCTCAGCCATATTGACT	162
330	CCATTGCTGACGGAGGTAGAGA	309
331	GTCCATTCGTTGCTCTCGTT	312
339	GTCCATTCGTTGCTCTCGTT	320
339	GTCCATTCGTTGCTCTCGTT	320
1020	GAGGAGTGGTAGAAGTTGGAGAGCA	996
385	AGCGGACATAGGAACCAACG	366
1767	TGTTCCAGGTGATAATGAGAGTGA	1744
1741	TGTTCCAGGTGATAATGAGAGTGA	1718
1672	TGTTCCAGGTGATAATGAGAGTGA	1649
1646	TGTTCCAGGTGATAATGAGAGTGA	1623
1262	GTGGACACGGCTTCTTCGCT	1243
462	TGGTTGATGAGAGAAGTGACAGG	440
120	CGGCACCTCCGTTAACAAGC	101
290	GACGACGAGGTGATGGAGAG	271
812	GCAGAGCAATGAACTACGATGG	791
669	GGATATTGCTCCACAGGAAGG	649
505	TCGAGAATAACGAGAAGAAGAGCT	482
126	GGTGATATGAAGTGATAGAAGAAGGAA	100
772	CGAAGGAGCGTAATGTGACTGC	751
535	GAATACATCCGTCCAGCAAGA	515
475	CTCCAACCATAGCCATCCAG	456
138	TTCATTCCATTCTCTCTCTGC	116
1253	GCTTCTAGTGAGAACAAGTGTGCTT	1229
111	TGAACAGGATGTATACGTATTCTCAAC	85
515	TGTCTTGATGAGTCCGATACGAA	493

1132	GACACTGAAGGCAAGGAGGA	1113
154	CTGGAGAAGATGATGAAGCATG	133
480	AATCTCCATGTAGATACCATCTTCTTG	454
438	AAGGAATGTGGATAATGATGGTG	416
373	GATTGTCGTCGGCTGGTAGA	354
249	GCCTTCATCCTCCTTCTTGC	230
1131	AAGTTCTCGATGAGGTCGTGTT	1110
1206	AAGTTCTCGATGAGGTCGTGTT	1185
329	CATGGCTTACAGGAACATACCAA	307
887	TCGTGGAGAGTACCAACAATATCC	864
653	TCGTGGAGAGTACCAACAATATCC	630
119	TGATGGTCTGTCTTGGAGCA	100
488	AATGAAGCCATTCTATCCAGA	467
461	GCTAATGCCAATACGAAGAGAAC	439
780	CCGAGCATATTGAGCATCTTC	760
860	TCTTGGAACACCTTACGAATCTC	838
2051	GGAGGATCATCAACGACGATT	2031
266	CCAAGTAGCACGACTGGTCAG	246
241	TGAATCGCTGGCTGACAATG	222
409	GGCACATAGAGACCACCGTTC	389
409	GGCACATAGAGACCACCGTTC	389
1436	ACGGACGACTTGAGAACGGT	1417
1009	GAACGACAACTCTAACTTCCAGTGC	985
2332	CGTCGGCAGATTGTCGTGTA	2313
2332	CGTCGGCAGATTGTCGTGTA	2313
280	GGCTTCTTCTTATCCACTTCGTAA	257
2332	CGTCGGCAGATTGTCGTGTA	2313
395	AATCTAACTGTGTTACTGTCATTGAGCA	368
201	GGCGATGAAGAGGTCCAGAA	182
229	CCTCACCACCACATAGACCAG	209
150	CATTCCGACTTCTCCTGTGC	131
642	GTAACGAAGAGAAGGAGAGAGACG	619
673	GTAACGAAGAGAAGGAGAGAGACG	650
762	GTAACGAAGAGAAGGAGAGAGACG	739
2304	TCGTGTTGATTAGTCTGAGCGT	2283
2188	CCTGTCAGTCATCAACGCATT	2168
1085	TTCGTGTGGAAGAGGCAACT	1066
983	TTCGTGTGGAAGAGGCAACT	964
950	TTCGTGTGGAAGAGGCAACT	931
211	CTCTGCTCTTGCTCCACCAT	192
857	CGTATGGAGGATGGATTGTCA	837
185	AATGCCACCGACAGACATGG	166
120	GGCACGGTGCTACAAGTGTC	101
221	TGGCTTGAAGTGCAGACAT	202

270	CATAGCCTCCATAGCCACCA	251
345	AGAACATGTGATGTCCATTCGAC	323
1113	CGTGTATATCGGAAGAAGGCTAG	1091
183	TGGCTTGAAGTGGAGACAT	164
278	TGTCCAAGATCCTGGTCCGT	259
1028	TGGTCAATGAGAGACATTATTATGC	1004
733	AATACAATACAGTGACAGGCACCA	710
451	GCTCTTCTTCGGCTTCTGACA	431
695	CTGATTGGAAGTAGGAAGAAGATTG	671
152	GGTCTTGGAGACGGCAGCAG	133
133	GGTCTTGGAGACGGCAGCAG	114
139	GGTCTTGGAGACGGCAGCAG	120
133	GGTCTTGGAGACGGCAGCAG	114
604	AGCGGCGAAGAAGTTGAGTT	585
597	AGCGGCGAAGAAGTTGAGTT	578
129	CTTGTTGGAGACGGCAGCAG	110
176	CCTTGTAACGCTTGCAACGG	156
188	AGCCTTGAAGCATCTTGGAC	168
141	GGTCTTGGAGACGGCAGCAG	122
139	GCGATAGCCTTGAAGCATC	120
206	CCTTGTAACGCTTGCAACGG	186
134	GGTCTTGGAGACGGCAGCAG	115
173	CCTTGTAACGCTTGCAACGG	153
192	GATAGCCTTGAAGCATCTTGGAC	169
124	GGTCTTGGAGACGGCAGCAG	105
163	GCCTTGAAGCATCTTGGAC	144
132	GGTCTTGGAGACGGCAGCAG	113
123	GGTCTTGGAGACGGCAGCAG	104
131	GGTCTTGGAGACGGCAGCAG	112
144	CATCTTGGACCTCTTGACACGCT	122
170	CCTTGTAACGCTTGCAACGG	150
175	GCCTTGAAGCATCTTGGAC	156
131	GGTCTTGGAGACGGCAGCAG	112
117	GGTCTTGGAGACGGCAGCAG	98
215	CCTTGTAACGCTTGCAACGG	195
131	GGTCTTGGAGACGGCAGCAG	112
171	CCTTGTAACGCTTGCAACGG	151
163	CCTTGTAACGCTTGCAACGG	143
221	CCTTGTAACGCTTGCAACGG	201
163	CCTTGTAACGCTTGCAACGG	143
134	GGTCTTGGAGACGGCAGCAG	115
142	CCTTGTAACGCTTGCAACGG	122
174	CCTTGTAACGCTTGCAACGG	154
164	GCCTTGAAGCATCTTGGAC	145

142	GCCTTGGAAGCATCTTGGAC	123
141	GCATCTTGGACCTACACGCT	122
124	GGTCTTGGAGACGGCAGCAG	105
131	GGTCTTGGAGACGGCAGCAG	112
124	TTGGAGACGGCAGCAGAGAA	105
190	GATAGCCTTGGGAAGCATCTTGGAC	167
164	ATAGCCTTGGGAAGCATCTTGGAC	142
131	GGTCTTGGAGACGGCAGCAG	112
130	GGTCTTGGAGACGGCAGCAG	111
196	GCCTTGGAAGCATCTTGGAC	177
179	CCTTGTAACGCTTGTCAACGG	159
125	GGTCTTGGAGACGGCAGCAG	106
216	CCTTGTAACGCTTGTCAACGG	196
139	ACGGCGATAGCCTTGGAGAC	120
189	GATAGCCTTGGGAAGCATCTTGGAC	166
169	CCTTGGAAGCATCTTGGACCT	149
180	CCTTGTAACGCTTGTCAACGG	160
130	GGTCTTGGAGACGGCAGCAG	111
323	CAGGTCTCCTCAGTGTTAGAACG	301
307	TGAACAACGTCGTAGAGCCTT	287
836	GCTGAGAAGTGGAAGACGAACA	815
739	GCTGAGAAGTGGAAGACGAACA	718
745	GCTGAGAAGTGGAAGACGAACA	724
1519	TGGATGCGAGAATACACGAGA	1499
397	GGCGGTAGACAACCTTCTGCAG	377
1467	TCAAGAGCCGATAAGTCCAATG	1446
1467	TCAAGAGCCGATAAGTCCAATG	1446
346	CGTAATTAGAACCATTAATCATCAACA	320
236	GCAAGTCCAGCTTGTGTATCCG	214
1305	CGTCCATTGCTCCACTGTCTG	1286
314	TCCGCACTGATAACTCCACTG	294
2144	CAGAGTAGCAACGAAGAAGCAGT	2122
314	TCCGCACTGATAACTCCACTG	294
314	TCCGCACTGATAACTCCACTG	294
314	TCCGCACTGATAACTCCACTG	294
314	TCCGCACTGATAACTCCACTG	294
328	CTGTGAGCATCTTGTCCATCTG	307
124	GGATGAGAAGCACAACTACACAGC	101
153	CACGCGCATCGAGGAGTACT	134
202	CAAGTATTCCGGTCAACGCTATG	180
1075	AGCTTGTGTGAATTGCTCGTC	1055
245	GGAGTCGAACTTCCAGCGAT	226
315	CACCACATTCTTCTCGCTACG	295
395	AGCGGTGATAGTGTTGCGAT	376

395	AGCGGTGATAGTGTTCGAT	376
461	AGCGGTGATAGTGTTCGAT	442
192	GGCGTGTGTCGTGAATACCT	173
332	GATAACGAGAAGCCGACGAG	313
332	GATAACGAGAAGCCGACGAG	313
382	AGCGGTGATAGTGTTCGAT	363
432	CGGTGAATGTGATGAGCGAA	413
703	GTCCACCTGGTCACCGTCTT	684
896	ACGCCTTCACGGAAGACCTC	877
183	AATCTGCTCAAGTGATCTCTAACCA	159
392	GCAGACATCTCTCGCATCGT	373
471	GCAGACATCTCTCGCATCGT	452
477	GCAGACATCTCTCGCATCGT	458
1867	AACCGAGTGATGTGTGAGCA	1848
1659	AACCGAGTGATGTGTGAGCA	1640
1589	AACCGAGTGATGTGTGAGCA	1570
852	AACCGAGTGATGTGTGAGCA	833
186	TGAGATCGTATTCCGTGCCAA	166
140	TGACCAAGTGCCATAGACGAGA	120
584	TGGATACCTGGACGGACACC	565
173	TCAGTTCCGATATGAAGACACG	152
284	CGAATTGAGACAGCTAGTTGGC	263
309	TGGCTTGACGATAACGAGAGT	289
773	TTAAGTGATGCCAACGTGAAGT	752
309	CGACAGGAATGTTTCATCTGGTT	288
154	CCGTCTTCAATCCTTGGCAT	135
419	TCGTCTCGGTCAAGTCGTCT	400
649	CGACAGAACACAGGAACACCA	629
106	CGATGACAAGCGACTCTCCT	87
574	TGGAGTCACAGTGCCTATATTCG	552
400	ATTGGTTGCGGTCTTGGTAA	381
699	ACATAAGAACACGTTGGCAGCA	678
609	GACGATGCCGAGCCAACACTAC	590
391	TAGTCGTGAGGAGAGTTGTAGTGAA	367
457	TAGTCGTGAGGAGAGTTGTAGTGAA	433
199	AGACAACCGACAAGACAATAAGACT	175
820	ACCATCCGAAGGTCGAGTGC	801
1834	TCTGATGTCGCTGATCGGAA	1815
1849	TCTGATGTCGCTGATCGGAA	1830
1373	GATTGTCGGATGTCGCTGAT	1354
674	ACTACTCGGTGTATGTCGCTGA	653
940	ACTCCGCTTCATCGTCACTC	921
1570	AGCGATTGTGATGAGTTGGC	1551
318	GCTCAACAATTCCTTCTCTTCG	297

290	GCTCAACAATTCCTTCTCTTCG	269
235	TGCATTCTGTCATCGTTCTTCT	214
135	CGATCATTGATCTCCGTAGGC	115
142	AGGTGCCAGGTGGTGACAAG	123
329	TGGTGAGAGGAGGTGCCGTT	310
252	TCATACCAATACTACCACTGTGACG	228
145	TGAGGATTCAGAAGACTCGTGA	124
140	ATAATTGCGGCTTGGCATCG	121
127	CGTCAACATCGTCGTATTCTG	108
1733	ACATATTGCTTCCAACATTGTCTG	1711
1816	ACATATTGCTTCCAACATTGTCTG	1794
1816	ACATATTGCTTCCAACATTGTCTG	1794
1610	ACATATTGCTTCCAACATTGTCTG	1588
120	TGCTCCAATTGACGCGAGAG	101
275	CGCTGTGTGCTATAGTGCTGACT	253
121	ACCAGGATCCGTGGACCTAA	102
120	TTCACGTGATCGTTGCCTGT	101
124	TTGCAATTCTCCGAATCTCTCTT	102
163	TTGTTGTGGTCGGCACTCTT	144
261	AGAGAAGGAGGCGGTGAAGA	242
160	GATGACTCAGTGGCGACCTC	141
291	GAAGGAAGGAAGGAATGATTGG	270
137	TCTCTTCTAACTGGCTTCTGATTCC	113
124	CCTCCTGGCACCTCATCTCA	105
429	CCGCTTGACCAGGTACATTG	410
493	TGAAGCTGCATGGCTGTTGA	474
536	TGAAGCTGCATGGCTGTTGA	517
567	TGAAGCTGCATGGCTGTTGA	548
330	TCGGCTCGGTTGTATAGTGTAAG	308
193	CGTGGTTCCAGAATCGAGAAG	173
305	GAGTACACGCTGCATGAACCG	285
463	GAGTACACGCTGCATGAACCG	443
137	CATTCTGAAGACGTCGTTTCGC	118
403	CCATGAGTTGACTTGAAGGTTTCG	381
627	CCATGAGTTGACTTGAAGGTTTCG	605
303	TTGAAGTTGACGGATTGATGG	283
2691	AACCATCTCACAGACATTCTCTCC	2668
398	GCTCTTATTATCTTCTGATCCTCCA	374
5196	ATGCTTGAACGAACTTGATAACAG	5173
1207	CAAGACACGATTCTCCTGAAGC	1186
211	TGAAGTAATACTGATGGAAGTTCTGCT	185
142	ATGCCATTGAATATAATCGTGTGTG	118
144	CGAATTCATTGAATTCATCTAGACAGA	118
890	TGGCTAGTGCTATTCCATTGTAGA	867

177	GATTGTCTTGGTGTAAGTCTGTC	151
124	AGATCGTATGCGCTGCGGAT	105
587	AATTCCATAAGCTCCGAGAGG	567
184	TACAGAGTCGCAATGCTCTAGG	163
1817	TGTGCTCATCGTCTGGTGAA	1798
1860	TGTGCTCATCGTCTGGTGAA	1841
1730	TGTGCTCATCGTCTGGTGAA	1711
1462	TGTGCTCATCGTCTGGTGAA	1443
216	GGTTCACATTGTTACTGCTAGGATT	192
158	CCTCCGCTCCTCATCCGTTA	139
127	ACCGATTGGCACAGTCTCTC	108
199	CCATCATCCAGAATGTCAACGTC	177
121	TCCAGATGAACCGATTCCACTT	100
121	TCCAGATGAACCGATTCCACTT	100
121	TCCAGATGAACCGATTCCACTT	100
83	CCGCTTATACCTTGACGACCTG	62
88	CACTACTTCCACCGTCTTGGC	68
83	CCGCTTATACCTTGACGACCTG	62
848	CTGTAGTATGAACGACCGGATGA	826
411	CAATGGTGGAGGAGAGAAGGT	391
411	CAATGGTGGAGGAGAGAAGGT	391
156	TGACAGATTAGAAGATGTAGTGGATGA	130
126	CATGACATAGACAGGTGTTCAAGC	103
123	AAGACTAATCATGCTAGCACGGA	101
1238	AACTCGCCTTCCTCCATTCC	1219
364	TTGGATTTCGGTAGCCGTGAC	345
2732	GGCAATGGAGAGAGCAGTGG	2713
386	TCACCTGTCGCATTTCGCATA	367
386	TCACCTGTCGCATTTCGCATA	367
386	TCACCTGTCGCATTTCGCATA	367
386	TCACCTGTCGCATTTCGCATA	367
545	TCACCTGTCGCATTTCGCATA	526
386	TCACCTGTCGCATTTCGCATA	367
545	TCACCTGTCGCATTTCGCATA	526
519	TCACCTGTCGCATTTCGCATA	500
519	TCACCTGTCGCATTTCGCATA	500
1164	CCACAGGAAGACGAGAAGCAC	1144
930	CCACAGGAAGACGAGAAGCAC	910
490	GGCGGATTGGTGATACAGAGTT	469
338	GGTCCACACGAGGCCTTGAG	319
242	GGTGTCAAGAGCGAGTGGAT	223
129	GGTGTCAAGAGCGAGTGGAT	110
178	ATTCACACCGCACGAAGCAT	159
165	TGACGATGTTAGAGCATCTCGA	144

150	TCACGCAACGCTCACTGGAC	131
271	GCTGGACACACGCTTACGAT	252
573	GACTTCTTCCACGGCTCACG	554
262	GATCCATGACGGTCATTGCC	243
655	GACTTCTTCCACGGCTCACG	636
653	GACTTCTTCCACGGCTCACG	634
574	TTCGTGCTTCTAGTACCAACTCTG	551
697	TTCGTGCTTCTAGTACCAACTCTG	674
731	TTCGTGCTTCTAGTACCAACTCTG	708
697	TTCGTGCTTCTAGTACCAACTCTG	674
731	TTCGTGCTTCTAGTACCAACTCTG	708
659	TTCGTGCTTCTAGTACCAACTCTG	636
697	TTCGTGCTTCTAGTACCAACTCTG	674
731	TTCGTGCTTCTAGTACCAACTCTG	708
896	CAGTGTGTGACCTTGTTGAGAGTT	873
131	CAGTGTGTGACCTTGTTGAGAGTT	108
1594	CACTGAATGTATCATAATGCCATCC	1570
717	ACATCCTATTCCGCCACCAT	698
895	GTTGGAAGACGATGATGATGATG	873
1246	GTTGGAAGACGATGATGATGATG	1224
1246	GTTGGAAGACGATGATGATGATG	1224
410	GTTGGAGCCACTTGGAAGCC	391
319	GTTGGAGCCACTTGGAAGCC	300
1100	GTTGGAAGACGATGATGATGATG	1078
1246	GTTGGAAGACGATGATGATGATG	1224
895	GTTGGAAGACGATGATGATGATG	873
768	GTTGGAAGACGATGATGATGATG	746
1100	GTTGGAAGACGATGATGATGATG	1078
660	AGATTCGGCTTCCTCCTCGT	641
748	CATTACTGAACAGATATACCAATCCG	723
609	CATTGGAAGAGTCTCGGCAA	590
878	GGACGAAGTGGCTTCATTGG	859
1944	CGACGAGGTCATCTCCAAGAAG	1923
172	CAGCTTGGCTGGATGCACAA	153
417	ATCTACCAATCCACCAATCGTT	396
171	AGACCAAGCATCGTTGGCTT	152
818	CGACCACCGAAGGAGCACAT	799
995	GCTCTTCCTCCTCCACCTCCT	975
565	GTCCTTCTCCGCACACATCA	546
565	GTCCTTCTCCGCACACATCA	546
764	ATCGCCAATCCATCGGTGAC	745
264	TCATACAAGTCATGGAGATCGC	243
264	TCATACAAGTCATGGAGATCGC	243
1271	CTTACGGTTCAGTAGAAGGCAGA	1248

1271	CTTACGGTTCCAGTAGAAGGCAGA	1248
427	CAAGAATGACTCCTTCGGCAT	407
330	GCTACTTAGAGCAGAGGAGAAGGA	307
315	ATGAGGCCATGTCCTGTTCC	296
762	ATGAGGCCATGTCCTGTTCC	743
225	ATGAGGCCATGTCCTGTTCC	206
256	TCATGTTGCACACGGTAACG	237
767	GCTGAACAATGGACGACAATGG	746
839	CATCCAGTATTCCTTCGCTTG	819
277	TTGAATTGCTGGCATTGGTT	258
567	TTGAATTGCTGGCATTGGTT	548
519	TCGATATTGGAAGTTGTACTCTCG	496
207	CTGACGAGATATTGATATAGTGGCA	183
319	ACATGAACCTCGATCCGAAG	300
1254	GGAGATCAAGAACTGGACGAGT	1233
128	GAATACTCCGCTCTCTGACTGAA	106
365	CTCCTCCGACGGCAGTCATAG	345
798	ATAGAATGGAATGTGGATAGTGAGAA	773
977	TGGCGTACTTGAATCATATTACTTG	953
230	GACTGTTGTTGACCGACTGATTC	208
133	GACTGTTGTTGACCGACTGATTC	111
331	GCAGTCATTGTTGAGGCACCA	311
576	TGATTCCGTTCCGCCAGTTCT	557
255	GGAGCAGGACCAAGACACAT	236
273	GGAGCAGGACCAAGACACAT	254
157	TGCTTGGAACATTATTACTTGGA	134
326	ACGGCGTCCAGAGAATAAGAC	306
122	TCAAGGATTAGCAGGAACGG	103
901	TGTTGAGAATGGATGATTGGAA	880
256	CAGCTCATCACGACTTGAAGTC	235
143	CAGTAGCCGAGTTATTGTTACG	121
1415	TCATCGCACATAGTGGATCG	1396
1984	AAGTCTTGAATGCTGGTTCCG	1964
1592	GAACGAGTTGAGGCGTAGACA	1572
3545	GAACGAGTTGAGGCGTAGACA	3525
243	CCATTCGTCAAGTCTTCGGT	224
472	CCATTCGTCAAGTCTTCGGT	453
370	CGGAATGTCACGAGAGCAAC	351
153	TTCACATGAGCCAAGCTGATC	133
142	TCACATTAGTGAATTAACGAGTGTTGC	116
138	GAATGAAGGAATAAGGATGTATGGAC	113
2789	AACGACAGATGCCAGATTGC	2770
1358	CGCCAGGTCGTAGATGAGAGG	1338
672	TGATTGGATTAGTCCGAGTGC	651

126	ATGATGGTCGCCTCTTCCGT	107
150	GTCGTTCACTGCCTGTGCGA	131
145	AGAAGAGATACAAGCCAGAAGAATG	121
186	TCCACGAACTGTGAGAATACCA	165
143	TATCCATATCCTCCTCCATACATTG	119
892	AACAGCATGTGGCAACGAGTT	872
2386	GAGAACCATTGTCCAGAGAACG	2365
2398	GAGAACCATTGTCCAGAGAACG	2377
316	TCCGTGAGATCAGCGAGGAA	297
371	TGGTCAGGTTGCGATTGTAGA	351
222	TTCTCGCCGTCTCGTCAGTG	203
1067	ATGCGACTTCAGATGCGTGT	1048
1109	ATGCGACTTCAGATGCGTGT	1090
904	AGTCAGGAGCGTTCCGACAA	885
140	ATGCCAGTTGACATAGAACGC	120
635	GAATGAAGCAGCACAAAGATGACA	613
2288	GAATGAAGCAGCACAAAGATGACA	2266
634	GAATGAAGCAGCACAAAGATGACA	612
2657	GAATGAAGCAGCACAAAGATGACA	2635
2244	GAATGAAGCAGCACAAAGATGACA	2222
2955	GAATGAAGCAGCACAAAGATGACA	2933
228	AATGAATTATGCGGATGTACTTGTG	204
132	GGCTTCGTGAGTTCTTCGTCA	112
178	AGCTGTTAGTAAGAAGAGAATGATTCC	152
1234	CGATTGGTGTACGGTCATAGAGC	1212
125	GCGGATTGTTAGTTATACCACCA	103
139	TTGCATCGAGTGACCAGTCC	120
985	GCTCATCAATCTGCTCAACGG	965
1608	GACGAGTCTTCAGAGGATGCG	1588
1390	GACGAGTCTTCAGAGGATGCG	1370
752	GACGAGTCTTCAGAGGATGCG	732
125	CCGTGAACAGAGATGGTGGA	106
148	TTGTGGCAACGAATGGAATC	129
384	AAGTGCTGCCATTGAAGTGAT	364
340	GACTCTTCACTCGCATCACCA	320
461	GACTCTTCACTCGCATCACCA	441
1025	GTAGTCAATGGTGGAGTCAATCTTAG	1000
1055	GTAGTCAATGGTGGAGTCAATCTTAG	1030
1025	GTAGTCAATGGTGGAGTCAATCTTAG	1000
1025	GTAGTCAATGGTGGAGTCAATCTTAG	1000
1055	GTAGTCAATGGTGGAGTCAATCTTAG	1030
1034	GTAGTCAATGGTGGAGTCAATCTTAG	1009
1064	GTAGTCAATGGTGGAGTCAATCTTAG	1039
650	CTACATCAACTTCCGAATCTCCGA	627

340	CTGGATGGAATGATACAATGACTG	317
225	CGACGGAGATATTCCTTCTTCA	204
188	CCATACTTCATCACTCCATCCA	167
1010	TTGACTTGGAATGCGAACCA	991
203	GGCTTGGCGGAGATTACTGA	184
217	CGTTGCTTGGCGATGAGTCT	198
515	CGTAGATTATTGGACCGATGATTC	492
1118	GATACGAGTGGCAAGAGAGCA	1098
1118	GATACGAGTGGCAAGAGAGCA	1098
182	AAGTTCCGATTCTGCTGTTGA	162
147	GAGCCGTAACCACAGAGACAATC	125
273	TTCTTCTCCATTATTCATCACGACAA	248
193	ATTCGCATACAGGCTTCACG	174
121	CAATACTCGTGTTGCTCGTCA	101
1011	CAAGATGCAGGTGGAACAGAT	991
569	TGCCAAGTGGTATGAAGCAA	550
1087	CACGGAGATACTCACGGAGAG	1067
347	CACTTGTGATCGTGCTGGTG	328
307	GCAGCATCCATCACATCCTC	288
693	TCGTCCGGATCATCTGGCTT	674
870	CGGATGTCTCTCTGATTCTTG	849
222	CCATCTGTACCTCTTATGCAA	201
121	CATCCATCTTCTGCTGATTCTG	101
133	AAGCAGCATCCACACTCCTT	114
128	CCTTATGCGCATGCTCACAA	109
433	GCTTCTCGTTCATCAGTTCTTGT	411
670	GTAAGGCGTATTGCTCCACAG	650
1166	TCCTGTATCTTGCGGTTCAATC	1145
1559	TCCTGTATCTTGCGGTTCAATC	1538
425	AATACAACGGATGCCATGCT	406
222	TCCGCGATAATTCTCACTGAT	202
392	TTCTTGGCAGCAGGAGACAT	373
203	TTCTTGGCAGCAGGAGACAT	184
313	TGGCTTCTGAGGTGGCATTG	294
214	CCTCATAGTCTCCGTAATCTGGTG	191
198	ATCTCCACCGACTTGAACCA	179
450	TTGTGCTGGAAGTGCTTGTC	431
175	CAATGACGACGGTGGCTCTC	156
130	CGAACGATCACGACCAGACA	111
358	GGCTGATTGGAAGCATTGAGAA	337
1184	TCGGATAGTTGAATGTTGTCTGGTAG	1160
1266	TCGGATAGTTGAATGTTGTCTGGTAG	1242
1462	TCGGATAGTTGAATGTTGTCTGGTAG	1438
1193	TCGGATAGTTGAATGTTGTCTGGTAG	1169

1275	TCGGATAGTTGAATGTTGTCGGTAG	1251
1471	TCGGATAGTTGAATGTTGTCGGTAG	1447
884	TCGGATAGTTGAATGTTGTCGGTAG	860
893	TCGGATAGTTGAATGTTGTCGGTAG	869
645	AGGCACATTGACATGAAGATTAGAC	621
555	AGGCACATTGACATGAAGATTAGAC	531
550	AGGCACATTGACATGAAGATTAGAC	526
191	TTACCGATGATCACTATGAGGCA	169
835	TGAAGCAGTAGGCGGAGAGC	816
742	TGAAGCAGTAGGCGGAGAGC	723
635	TGAAGCAGTAGGCGGAGAGC	616
702	TGAAGCAGTAGGCGGAGAGC	683
124	GCTCGTACATCACAATTAGCATG	102
464	CCGCTTGACTCGCATAGAGA	445
688	TTGTTGTTGAACGGCGTAACTC	667
764	TTCCAGTATTCATCATATAATGCGA	740
3604	GCGGTGACAATGGAGACTGG	3585
6466	GCGGTGACAATGGAGACTGG	6447
336	GGATTCAGTTGTGGTAGTGGTAGA	313
6439	GCGGTGACAATGGAGACTGG	6420
4888	GCGGTGACAATGGAGACTGG	4869
4202	GCGGTGACAATGGAGACTGG	4183
4175	GCGGTGACAATGGAGACTGG	4156
4637	GCGGTGACAATGGAGACTGG	4618
1812	AGAAGAGCTGGAGATGACATGG	1791
217	AAGATCTTGTGCTCCAACGG	198
464	AAGATCTTGTGCTCCAACGG	445
748	CGTCTTCGTCAGTCTCGTCACC	727
166	ACGGTAGGACGAGCAGGAGT	147
555	AGTGTCACCTTGTACCGCCTCTT	534
337	AGTGTCACCTTGTACCGCCTCTT	316
419	AGTGTCACCTTGTACCGCCTCTT	398
131	GAATGGCATGCAACTTGATG	112
256	AAGTTGGACGAAGAATGTAGACG	234
295	TTGACACCGTCGGTTGAGAG	276
388	TTGACACCGTCGGTTGAGAG	369
1139	GGAACAGCTCAACGTATTCTCCA	1117
595	TATCCACCTCACCGAACAGC	576
1166	TGATGACTGAGCGGCGAGAA	1147
416	AGCTTGAAGTGAGATGATTGAGC	394
128	CCATTCCACTGATGAGTTCCG	108
132	CATGGATGACCGAGTTGTGC	113
707	TGTAGACAGAATAGTCGCAGAGGA	684
557	TTAGTAGTTCACGATCTGTTGGATGA	532

1239	GATGATGATGTGTGTGAGATGTTTCG	1215
949	CCAGAGAATCTTGTTGAATCGG	928
639	TCGTCGTTCTTGTTGTGCT	620
1457	CGGCGAGTATCCTCTTCCAG	1438
215	GCTTCAACCTTCATATTCTTGAGACT	190
666	GGCAACTCGTCATGCTCCAT	647
157	CGACGACAATGTTGATGAAGATTC	134
130	TGAAGCCGAGAATTGTGAGC	111
614	TGCTTGACCATCCATTCTG	595
183	TTGCTCTTCAGTCGCTGCTATC	162
379	TTGCTCTTCAGTCGCTGCTATC	358
789	CTCCTTGAATATCATCATCAGTGAA	765
291	GCTCGTATCCAAGTCCATTCC	271
291	GCTCGTATCCAAGTCCATTCC	271
491	AGGAACACCAACGCCGACAC	472
491	AGGAACACCAACGCCGACAC	472
113	ACGCTGTCCGAACCTGTAACC	93
233	ACGCTGTCCGAACCTGTAACC	213
243	CGATGGAAGCATAACAAGGACT	222
266	TGAATAGAGAGACGCCGAGAA	246
511	GTTTCATCGCATCACGCAAGT	492
482	CTTCGGCATAGGTTGGTTCA	463
484	ACAAGAATCATCATCAACAACAAGA	460
1364	TGGTGGAGATGGAGAGCGAT	1345
960	GATATCTGGTATCAGCTCATCGC	938
1182	TGAGTGGATGTGTCTGGATT	1162
1124	TGAGTGGATGTGTCTGGATT	1104
946	TCAGTCCAACCTACATTCGTCTTCG	923
202	CAACACCTCCAAGCTCTGTCTC	181
232	CGATGAGCTGGTCAACGATT	213
298	GCGAGAAGATAATGCGGATG	279
204	CAACACCTCCAAGCTCTGTCTC	183
168	CAACACCTCCAAGCTCTGTCTC	147
910	AACGGACCAGGAGAGAGCAG	891
312	AATCGCTCATCTGGTGTCTCC	292
187	CCTCAAGGTCTAGTAATTGATTATTCC	160
235	TGAGTACATCAACATCAATCAGTAGGA	209
1058	ACCGTGAATATCAGTTGAACACC	1036
451	TTCGTCCTCGTCCTCCTCCT	432
347	TTCGTCCTCGTCCTCCTCCT	328
2059	GCTCTTCTCGTTGCTCTTCCA	2039
1722	GATTGGTGTGTTGACGATTGG	1702
1411	TCTTCCTCGCTTCTGATGGA	1392
380	AAGCCTCTTCTAGCTATCGTCAGT	357

933	CGATCAACTTCTCCAGTTCAGG	912
131	GCATGTGTATGTTGTCACTCGAT	109
174	TGTGTGCAAGTCAATTAGCGATC	152
3415	TTCGTTCTCGTCCATTGCTC	3396
8211	TTCGTTCTCGTCCATTGCTC	8192
2862	TTCGTTCTCGTCCATTGCTC	2843
2862	TTCGTTCTCGTCCATTGCTC	2843
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2145	TTCGTTCTCGTCCATTGCTC	2126
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184	TAGGCGAATATGGCGACGAT	165
103	TAGGCGAATATGGCGACGAT	84
1451	TGTGGAAGTGTGGTGATGGATG	1430
1448	TGTGGAAGTGTGGTGATGGATG	1427
1434	TGTGGAAGTGTGGTGATGGATG	1413
1509	TGTGGAAGTGTGGTGATGGATG	1488
1288	TGTGGAAGTGTGGTGATGGATG	1267
1213	TGTGGAAGTGTGGTGATGGATG	1192
1374	TGTGGAAGTGTGGTGATGGATG	1353
1516	TGTGGAAGTGTGGTGATGGATG	1495
1513	TGTGGAAGTGTGGTGATGGATG	1492
1006	TGTGGAAGTGTGGTGATGGATG	985
1448	TGTGGAAGTGTGGTGATGGATG	1427
1370	TGTGGAAGTGTGGTGATGGATG	1349
1824	ACTACGGAGAAGAATGAGCACAA	1802
1824	ACTACGGAGAAGAATGAGCACAA	1802
1138	CCTCCAACACCTCCTCCAAT	1119
267	CACCTCGATCTCCACGCCTT	248
97	CATCACCTTCTCCTTCGCACTT	76
143	CCTGGATGCTCATTCAAGAACT	122
1341	GAATAGAGTTGGACCAGACTAGCAC	1317
880	TCAAGTGTTGTATCCTTCGCTACT	857
724	ACAATGGCAGTGATGAAGGC	705
716	ACAATGGCAGTGATGAAGGC	697
266	TGACAACTGACTTGACGGTACGG	244
1020	AGCACAAGAGCACCTCCAGT	1001
247	CCGTCTGGTGTGTCTCGTC	228
1028	GATGTGAATACGGAATTGATATGATTC	1002
784	TTGAATCCTCCAGCAGCACT	765
796	TTGAATCCTCCAGCAGCACT	777
161	AGGTGGTGTGGTTCTTCTTCA	140
150	AACTCCTGTGGTCTCTTGCG	131
98	AGCTGTCTCACATCCGCAGA	79

713	ACGAGGACAGAAGCAGTTCG	694
319	TTCGCCGAGACACTGCTGAT	300
553	GCAAGTGATGTGGTCTCCGA	534
203	AATTGAGGCAACGAGTTACAGTAGT	179
373	GCTGTTGTTGCTTGCGGTAG	354
579	TCCAACAGTCATTCCAACCAA	559
307	GATGGCCAGTAGACGGAGAA	288
496	TTCGTAGACGTTGAAGAAGAGGA	474
1342	GCCTTGTCGTATTGGTTGAGC	1322
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1349	GCCTTGTCGTATTGGTTGAGC	1329
1354	GCCTTGTCGTATTGGTTGAGC	1334
1037	GCCTTGTCGTATTGGTTGAGC	1017
687	TGACATCCTGCCAAGAATCC	668
670	TGACATCCTGCCAAGAATCC	651
666	TGACATCCTGCCAAGAATCC	647
961	GCTTCTCGGATTCGTGTCTCTT	940
186	TGATCCGAATGGATCGACAA	167
343	TCTGTGGTGGCTTCATAGTCCT	322
267	TCTTGAGTAGGTGTTGTTGAGCA	245
160	CGAGAATGAGACTTCGGCAGT	140
177	AAGGATGAGAGTATGCCGTCTGG	155
428	AGCAGAGACCAGATACGAGAGC	407
442	GCAGATCAGCGACTGGTTGA	423
76	TTGAAGGTGTCGTGGTTGGA	57
210	TCCAGATCGAAGAACACGTATG	189
76	TTGAAGGTGTCGTGGTTGGA	57
877	GCTCCGATTCGTCAACTTCTTC	856
259	AGCCATCTAATATCTCCTTCCGA	237
236	GCATTATAGTCGGCAGATCCTCTT	213
623	CACAACATAGAGATCACGGAACA	601
148	TTCTCTTCCTCGCAGCAACA	129
387	CGTCCGTGTCAGGTGTTGGT	368
519	GACAAGGCATTGAGAGTCGTC	499
235	CATTGAGCACATCATCTGTCGTC	213
972	CACGCCAACCATAATTGTCG	953
690	CGATGTTATTGGAGCTGGCA	671
127	GTGGAGGATGGTGAAGAAGAAG	103
359	CACAGCCTAGTGAGAGTAGTTCTGC	335
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146	CACAATCACAGCAGTCGTCAA	126
196	AGTTGATGATTGTGGACGCA	177
502	CTGACCAGCCGCCAGCTAAC	483
196	AGTTGATGATTGTGGACGCA	177

229	TTAGCAAGCACCATCCAAGG	210
1867	CCGACATTGATTGAGTGGCT	1848
430	CCTGTAGTCGCTTCGTTGCT	411
268	TGGTGAGACAGAGAACAGTGAGA	246
658	AATGAATAGGTTATGTCGGTTGC	636
1332	GCGAGCAGCAGCCTTGTTCT	1313
904	ATGTAGATACCGCTGAAGAATCG	882
805	CATCATCACTATCCGACATATCACA	781
107	AACACATCAATCTGCCAATCG	87
1061	GAGGAGCGGTGAATGGTGAC	1042
433	CAGATGTATAGATTGGCGAGCA	412
285	TTCTCTCAATTCTTCGTTGTTGC	263
931	TTGAAGAATCTGTGCACGCAT	911
1149	TTGAAGAATCTGTGCACGCAT	1129
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138	CGCTAGAATGTTCTACCAAGAGTGTG	113
141	GGAGATCCGGACAGTGCATT	122
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780	ACAGTGATTGCTCGGCTTC	761
574	TCGTGAGCATAATCCAGAAGG	554
237	TCGTGAGCATAATCCAGAAGG	217
736	AATGTTCCACAGAGCGGTGT	717
697	AATGTTCCACAGAGCGGTGT	678
729	GCCAATCATGGCAATCTTGT	710
1334	GTCTCGTAGACACAAGACGGAAC	1312
654	ATCTTGTTGAGGCGGAGCA	635
1239	CCAGAGCCTTGTAGCAGAACG	1219
294	AAGCCAGCACACAGCAATCG	275
294	AAGCCAGCACACAGCAATCG	275
916	CGAGAGTGAGATTGGAGATTGC	895
677	CGAGAGTGAGATTGGAGATTGC	656
652	CGAGAGTGAGATTGGAGATTGC	631
201	GCATTGCGATTCTTCATGTTG	181
121	CCGATTCACTATCATTACCGTCTT	98
341	CCGATTCACTATCATTACCGTCTT	318
338	GATGAGGAAGAGGACCGATGC	318
338	GATGAGGAAGAGGACCGATGC	318
338	GATGAGGAAGAGGACCGATGC	318
604	CGTCATATTCAGATGAGAACCGT	582
604	CGTCATATTCAGATGAGAACCGT	582
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112	CCAACAACATCCACCGCATA	93

228	CACGAAGAGGTAGACACTGGCT	207
1649	GCATGTCTAGTCGCAATATGGA	1628
470	ATCCTCCGAATGGTGGTGGT	451
420	ATCCTCCGAATGGTGGTGGT	401
483	ATCCTCCGAATGGTGGTGGT	464
363	ATCCTCCGAATGGTGGTGGT	344
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402	CGGTAGATGAGGAGATTGTAGGAGT	378
84	ATACTCGCCAGTGCGGATAG	65
150	TGCATTAACAGAATCCGTAGCTT	128
205	GGCTCGCTTACCAGGTTGAC	186
368	CACTCGTGTTTCGTCTGGAA	349
718	GGAACGAGGAGACCAAGAGG	699
185	CGGTGGTGTATGAATAATAACTCG	159
238	CCGAATAGTGATAGAACGCCTT	217
875	CTTCGTAGTTCAGTGCGGAGA	855
946	CTTCGTAGTTCAGTGCGGAGA	926
250	TTGTTGAGATGGTGGTGGTG	231
659	TCCTGGTTCAAGGACTCCAA	640
2029	GCTCTCCGATGTCCTCCGAA	2010
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213	TCCAGTGATCATGTATGTGAGACA	190
642	TGTGAATGGTAGATCAATTAAGTAGTTG	615
333	CTTGTTGAAGAGCAGTGGCA	314
294	CTTGTTGAAGAGCAGTGGCA	275
212	GGACAGGTAGCAGAAGCCAGT	192
938	AAGTATTGCGGAGTCACCACA	918
189	TTGCGAGTAGAAGAACAGCCA	169
2869	CGACATTATCCACCATAGCGAA	2848
720	TGGTGATGATGTGGAATGTGA	700
2960	TCCATTCTTCCGCAGTGTCA	2941
931	GCGGTGAGTTGAGTTCCAGGT	911
2960	TCCATTCTTCCGCAGTGTCA	2941
2960	TCCATTCTTCCGCAGTGTCA	2941
1713	TCCATTCTTCCGCAGTGTCA	1694
90	CGCTTACGCACCTCTTCCTT	71
975	CCAGCATGGCATCAACTTGT	956
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224	TTATGAGCCGATTGATGAACG	204
1722	CAATAGAATGAAGAATCGGCGGTT	1699
143	TCGTAGTCGTCCAATCGCAT	124
189	AGCAGAAGTCGGCATCGTTG	170
172	AGCAGAAGTCGGCATCGTTG	153

190 AGCAGAAGTCGGCATCGTTG	171
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1772 CCTGACGACGAGGATGATGA	1753
248 AAGTGCTGCTTCTTGGACTGAGTT	225
1236 CTCCAGGAATGTGGTTACGG	1217
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317 TGAAGTGGCTGTGACACATCC	297
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988 GAAGGTGTGTGTGGAATGGC	969
984 GAAGGTGTGTGTGGAATGGC	965
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130 GTCTCTCAGCGTTCCTTCCG	111
144 ATGGTAAGTACTACCATGCCTAGGC	120
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247 CGCATAAGTCCGTCTGGCAA	228
328 CATTCCGAACATTCGAGATGG	308
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1474 GCGATGGAATGTGATGGAAG	1455
156 CCAACTGCAGCCTTGACACC	137
135 AACGGCCTTCGGAATTAGGTG	115
211 TTCCGAAGAATGCGAACCTC	192
463 CGTTCTCTCCGTCTGGTCCT	444
631 CCTTCTTCGGTCCAAGCAAT	612
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1359 GTTCCTAGAATTGTGGCTGTTGT	1337
1316 TTGACTGATGGTTCTGATGAGG	1295
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122 CCTCTGACTGCCAATATTCCAC	101
771 CTCACAGTGATCGCCTCGTC	752
240 CGGCGACCTTCTCATACTTG	221
1079 GCGTGGATTGTTGGAGAGCA	1060
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366 GCGTGGATTGTTGGAGAGCA	347
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450	AAGCCAATAAGGTGTGTCGCA	430
290	TTCCTTAGTGATTCAATATCCTTCTTC	264
996	TGATGAGATGCCACACTGACA	976
377	TTCTTCAGTTCGGCGGTCAT	358
1025	CAGCACTATCACGAAGATGACTGT	1002
1265	CAGCACTATCACGAAGATGACTGT	1242
192	GTGTTCCATTGGCAGTGTTG	173
1133	ATGACAATGTGAGTTCAATTGCAGAT	1108
1331	TCTCGCTCCAGTTCATCATCT	1311
335	GCTTGGTGAACCTCTGTGTGCT	315
803	TTGAACGACGTACTTACATGGC	782
318	CGCCAAGTCAACTGTTGGAT	299
301	CACATCTCATCTTCTCGGATTCTC	278
680	GCGGTGGTAGAATCCTGGTG	661
668	CACCGTAGAGCCTTCAATCCA	648
1870	TCACACGAAGTCAAGCCGAATC	1849
891	TCACACGAAGTCAAGCCGAATC	870
436	TCACACGAAGTCAAGCCGAATC	415
351	CCATGTCTGACTGTAAGGATCACA	328
313	GCTTGTTTCAGTTGACACTCCAA	292
606	CACCGCACACCAATCTTCAC	587
783	GAGATGGAGGAGTAGGCGAGAGA	761
273	AAGCAATTCCTCGTGTGATAGGTC	250
891	GCTGGTGGTTGAGGTTGCTG	872
829	GCTGGTGGTTGAGGTTGCTG	810
448	TTGGTCGTCCTGGAAGTGT	429
462	TGGAACAGTCGTGGATCGTT	443
226	GTAGTGTTCTTGACGAGCTACGAA	203
610	TCTCCACTTCAATGTTTCGCTT	590
582	TCTCCACTTCAATGTTTCGCTT	562
1069	CTCGAATGCGTTGTTGTTGG	1050
424	CAACGTCATCGGTGACATTG	405
382	CCACCAGTTCATCCACATCA	363
368	CCACCAGTTCATCCACATCA	349
1344	GGTGTCTCCGTCGTAATAGTAGA	1321
1415	GGTGTCTCCGTCGTAATAGTAGA	1392
1697	GGTGTCTCCGTCGTAATAGTAGA	1674
204	GAGCCACGCCATCCACAGTT	185
499	TTCACATCTCGATGAATTATGCC	477
2252	CGTAGGTTCCGTTGGTGTCC	2233
2035	CGTAGGTTCCGTTGGTGTCC	2016
293	CACTGTGTTACGCTTGATGG	273
292	TCGGTAGAAGCCACGAATATATACG	268

327 TTGTGATGTATTGAGCAGTGGTG	305
144 CGGTAGACTTCGGCGACTGA	125
706 TCAGAATATGACGGAATGGAAGA	684
515 GTGCCGTTGTGCAATGGTTC	496
228 ATTGTCCTCATCCTCCTTCTCT	206
143 TAGCTTCGGTTGCTTATGCG	124
136 GATCGACTTCACACTACTGTTACATCG	110
145 AGACAAGCGGTGGAGAGCGA	126
2075 CCAAGTCCGATAGCGAGAAC	2056
1997 CCAAGTCCGATAGCGAGAAC	1978
1951 CCAAGTCCGATAGCGAGAAC	1932
1873 CCAAGTCCGATAGCGAGAAC	1854
783 ATTCATTACGACGTAGATCACTGC	760
526 ATTCATTACGACGTAGATCACTGC	503
839 CACAAGAACACACTGAACCGAA	818
879 CACAAGAACACACTGAACCGAA	858
259 ACCAATCATCGTCCTCTCGTG	239
376 ATGAGCACCACTCCGACT	357
378 GCATGACGTTGATGTGATTACTTCG	354
262 CTCGCAACATTACCGCATT	243
1432 GCTCAGCATCCTCGTCAATG	1413
262 CTCGCAACATTACCGCATT	243
550 CCATAGTGTTGGCAGCGGT	531
267 GCCATTCTCGTCTTGCTCCA	248
558 GTCATCCATCTTGCGGATC	539
423 GTCATCCATCTTGCGGATC	404
780 GCATACCGATCCACGCTAGG	761
133 CATTGAGAGCATGTCCGCAA	114
750 TCCTTCCTTGATTCCACACG	731
426 AACCAACAACGATCCTCCAA	407
643 AACCAACAACGATCCTCCAA	624
315 AAGTCCTGATTGTTGTGTTGATGT	292
310 CGTCGTATCCGTATCTCACAACA	288
201 ATCGACGATCATGGTCTTCAC	181
714 CATGAACTCAACAACCTCCTTGT	692
504 CATGAACTCAACAACCTCCTTGT	482
659 CATGAACTCAACAACCTCCTTGT	637
952 TCCAATCAATCCACCTCCAG	933
228 GATTCAGCCACCTCTCCAAT	208
765 CGGCTTGCTCTTCATTGTCA	746
783 AGCGTCGTCAATGATGTCGTC	763
786 AGCGTCGTCAATGATGTCGTC	766
355 CCAATTATTGCGGTAATCAAGTCTT	331
344 CCGTACTCGTCATATTGGTTCC	323

309	CCGTACTCGTCATATTGGTTCC	288
355	CCAATTATTGCGGTAATCAAGTCTT	331
344	CCGTACTCGTCATATTGGTTCC	323
309	CCGTACTCGTCATATTGGTTCC	288
345	CCGTACTCGTCATATTGGTTCC	324
1192	CGAAGTGCCACAATGACAATG	1172
197	CCTGGCAGCACTGATTCACA	178
284	GGTTGTGGAACGGCGATAGC	265
176	GGAAGAGATGTCGTAAGAAGTGAAC	152
235	GATAGTAAGAAGAAGCACCACAACG	211
1026	AAGTGGCTCATTGGCTCACA	1007
226	GATAGTAAGAAGAAGCACCACAACG	202
979	TAGGAGCCGTCACAGCCACA	960
1123	CATCTGTTATTGGATTCTCGAATGTTG	1097
1151	TGTTCAATTCGTTCACTCTCG	1131
606	GATACGGTCCTTCAGACGATTC	585
823	CGTATCCACCGCAGTCATCA	804
447	TGTGGAGATAGTTCTAGCAGTTGATG	422
124	GGCGACGAAGATCCATGTTG	105
1517	TGCCAAGACAGGACGACGAG	1498
1328	TGCCAAGACAGGACGACGAG	1309
1482	TGCCAAGACAGGACGACGAG	1463
110	ATTCCTAGCTTATCCGCTGCTT	89
318	AAGAGTCCAACGAGGTAAGCTTC	296
577	CGATTGTGGACTGGATGTGA	558
495	CGATTGTGGACTGGATGTGA	476
146	CCGAGAAGAGTATCATCAAGAAGAGA	121
136	GGAATATTATTGCGAATAGCACAA	113
136	GGAATATTATTGCGAATAGCACAA	113
137	AAGTGCTAGTGGACACACGACA	116
811	TGTGATTGTCGGTGGTGGTG	792
2069	AGCCTCCTACACGACATAACCTC	2047
1011	GGAGGAAGCCATAGAGGAATCG	990
113	GCATCGTCCTCCTTCTCGTA	94
180	GGTATCCGATGTGACGACTACTC	158
398	TTGAAGATATAATGGTGATTTCGTGA	374
219	TTGAAGATATAATGGTGATTTCGTGA	195
358	TTGAAGATATAATGGTGATTTCGTGA	334
218	GCATCGTCCTCCTTCTCGTA	199
113	GCATCGTCCTCCTTCTCGTA	94
113	GCATCGTCCTCCTTCTCGTA	94
902	TGCTCACATCCGTTGACAGT	883
447	CTGGATGGAACGACGGAAGA	428
146	CTGGATGGAACGACGGAAGA	127

1390	GTGTAGCCAGATGAGTTGAAGAAG	1367
534	CGTGTTCTTCAACTCATCGTCTCC	511
126	CACTCAACACCGGTGTCACC	107
127	CGCCTATTCTAGAATCATGTTGAAC	103
151	AATACGACACTTGTTATATCACTGCTC	125
132	TCTAGATCAATATCCAGATCATCATGA	106
168	GGAACGAATGATGAGAACTGACC	146
247	TTACCAAGAATGCAATACAGACAATG	222
267	AAGTTGCTCACATGTCTTCACAA	245
513	TGGAACATACAGAAGAGAGTAACGAGA	487
1696	CATCATATTCACCTCCAGATCCTG	1673
429	CATCATATTCACCTCCAGATCCTG	406
197	CGAAGATATGGAGAAGCACAGTG	175
303	CATTGCTGTCTGCGTCTCTAGT	282
439	TGTCGTTGAGAGCGAACTTG	420
840	CGTCCACCACCAGTATCAGG	821
249	TGGTGAACCTGATGCTGGACA	229
201	AATCGTCGGCAGTGTCTGTTT	182
94	CCGCTGCCTACTGATGACCA	75
1852	ATGTGATGGTGGTGGTGGTG	1833
1317	GGTCTGCCGAAGGATGTTGG	1298
2051	ATGTGATGGTGGTGGTGGTG	2032
94	CCGCTGCCTACTGATGACCA	75
92	TCTGTTGGTACGAAGAGTATCGAGACT	66
92	TCTGTTGGTACGAAGAGTATCGAGACT	66
1232	AATCTGACAACTTGAACCTATTGC	1209
1638	CATAGTGAATCCTGTTGCTCCA	1617
273	TCCAATCAATTGCTCCATCA	254
827	GCACTGGCAGTACTCGGCAT	808
826	GCACTGGCAGTACTCGGCAT	807
1339	GCACACAGACCATGAGATCAGT	1318
144	GTCTTCATCGTCATAATCGTCGT	122
894	AACTTCTCCTCGCCTTCTGG	875
895	AACTTCTCCTCGCCTTCTGG	876
813	AACTTCTCCTCGCCTTCTGG	794
615	AACTTCTCCTCGCCTTCTGG	596
894	AACTTCTCCTCGCCTTCTGG	875
288	AACTTCTCCTCGCCTTCTGG	269
894	AACTTCTCCTCGCCTTCTGG	875
895	AACTTCTCCTCGCCTTCTGG	876
1067	TCTTCATCCTCCTCGTTATCGT	1046
142	TGAATAGCAGTATGCGGAGGT	122
747	CGCCACGGTATATAGGAACG	728
803	TGGAATATGCAGTGAACGGTT	783

904	CAGTCAGTCCGATAGGTAGCG	884
1047	CCACTGCGGAATGCTCAACA	1028
926	CAGTGTGGAATTGTGAGCATTG	905
539	GACAGAGATTGACTTGCGACAG	518
147	AACGACATAGCCGACTCCTTC	127
407	TGATGCTCTGGAGATACTGCTTAG	384
235	CGTACCACTCGTTGAACTTGTCG	213
229	TGCCACGCTGATTGAGGTTG	210
470	TGCCACGCTGATTGAGGTTG	451
275	GAGCACATCTCCATCTCATTCC	254
150	GAGTCGATGGAGGTGTTCCG	131
133	GTAGACGTCGGCCATTGGAG	114
412	TGCCACGCTGATTGAGGTTG	393
852	GCCATCTTATCCTTAACACCTTGC	829
866	GCCATCTTATCCTTAACACCTTGC	843
875	AGGCTGCCTTGTCAAGTTGA	856
889	AGGCTGCCTTGTCAAGTTGA	870
1309	GAAGTTGTGCCGCTGTGAGT	1290
151	AAGAATGGAAGTGACCGTAATAGC	128
759	CGTGACGAAGTGTGGTTATGTC	738
325	TCTTGTAGTGGTCTTGTTCCGA	304
730	CAAGAGATGGAAGTAGCAATCCTAT	706
481	GATGAGACGAGTGATATGGTGGA	459
291	GACAACAGAGCATACCAAGCATT	269
251	ATGAGGATCAGAGCCAGTGG	232
251	ATGAGGATCAGAGCCAGTGG	232
244	GGCTGACTTCTTGGCATCGC	225
449	AAGAGCCAATGAGAGAACGATG	428
9249	ATGTGGCGATGATGGATGAG	9230
1125	ATGTGGCGATGATGGATGAG	1106
298	GAATGGATGCTCAGAATCGG	279
9249	ATGTGGCGATGATGGATGAG	9230
1206	ATGTGGCGATGATGGATGAG	1187
834	ATGTGGCGATGATGGATGAG	815
872	CCGAGGAGAAGTAGATTGCG	853
342	CCGAGGAGAAGTAGATTGCG	323
132	GTTGGACGTTGATCGGTTGC	113
126	GGTAATCATACACCAGCGTCAGG	104
737	GGTCTACTTCAGCACGCACTCC	716
1589	GCTGCTTCTGCTCTTCATTGC	1569
331	TCCGTGATGAATGCAAGTATCATAC	307
557	GCTAATGCTGAACCGATTGG	538
787	GCTAATGCTGAACCGATTGG	768
145	TTCCTCTGACTCTAGATCTGCCA	123

133	CAGGCGGTGTTGAGAGAAGG	114
122	CGTGCCACCGAACTACTTCT	103
228	AATCCAGTCAGAATCATAAGTTGCT	204
366	AAGTGTGGTGTGGCAGAGG	347
366	AAGTGTGGTGTGGCAGAGG	347
523	AAGTGTGGTGTGGCAGAGG	504
219	AAGTGTGGTGTGGCAGAGG	200
577	CGGCTTGAAGAGCAATTCCTT	557
334	CGAGATGACGATCACCGATT	315
1015	CGATTCCTGTTGGAGGTTCC	996
169	CTGGCTCCAATTCCTTGTGC	150
479	GATGGCACAGAGCAATGGAT	460
144	GTGAATGACTGGCATCGTGA	125
481	GTCGTTCAAGTTGTTGGATGCTT	460
1259	GTTCATAGCGTTCTGCGGTT	1240
1868	AGAAGGCGATGAAGGCTGACT	1848
421	CGATTATCCAGCAGATGAAGTATG	398
213	GAATACTGTCCTGTTCTCCTCA	191
194	AATCCGTTCAAGTGCATTG	175
700	CACGAACAGCCACGGAGAAG	681
812	GGAAGTGAATGTAGAGACCAAGTGA	789
388	CACAAGCAATACTGTAGGCATCG	366
654	AATACAGCCGCAGTTCCAGA	635
219	ATCACTGTATCGGCGACGCA	200
2250	ACAGTCCGCATTGGTTGGTG	2231
326	CCATCCATATACATAAGTTCTGCCT	302
99	CGTCATGTCAGCCACACCAT	80
416	CGATTACTGACGGTGGAAGTGG	395
238	CCGAGAGTTCTTCTGGAGCAA	218
240	CCGAGAGTTCTTCTGGAGCAA	220
993	AATCTTGTGTAGGTCGCTCTGC	972
524	AATCTTGTGTAGGTCGCTCTGC	503
692	AATCTTGTGTAGGTCGCTCTGC	671
1018	AATCTTGTGTAGGTCGCTCTGC	997
839	AATCTTGTGTAGGTCGCTCTGC	818
636	AATCTTGTGTAGGTCGCTCTGC	615
577	GGCGTTGATGCGTCGGTAGT	558
623	GGCGTTGATGCGTCGGTAGT	604
623	GGCGTTGATGCGTCGGTAGT	604
577	GGCGTTGATGCGTCGGTAGT	558
623	GGCGTTGATGCGTCGGTAGT	604
499	CCACACAGATGTTCAAGGTT	479
154	ATACTGGTTGAACTGCAATCACAT	131
1333	TCACAATGCTTCCGACACACC	1313

149	TGATCCTCTATGCCGACAGC	130
780	AGGAGCACTGGCTATTGTGTAGA	758
170	TTCCATATTCCGCAACACAA	151
142	TCCGCTGTACAGCACGAACT	123
225	TCCGCTGTACAGCACGAACT	206
158	CAAGTGTGGTGCTCCTGTGA	139
289	TGTTGTCCACGTGTACTTCCG	269
703	GGATAGCGGATTGGAGATGGA	683
585	GCTATAGTTGTCTTGATCTTGACA	561
406	TTCGCACCACCTTCCTATCG	387
786	TGTGTATAATACTGCCATCAGAAGAATC	759
311	GCAATCATTATCACAACAACATCC	288
892	TTGTTGGTTGGCGAACAGAA	873
1822	GAGCAAGGTGAAGTTGTTCTCG	1801
396	TGATACTTGGCGTCATCTCTGG	375
328	CAACACCATCCTGCTCCTTG	309
1517	TTCGTAACGGTGACGGTGAC	1498
247	TGTGTTGTGTGTCAGATAGCC	226
277	TCAATACTGCACGTCTCTTGGC	256
357	CCATCTTCTCTCATCTCTTCTCCA	332
191	TCTGATACTACATTGACCAGTTCCTAA	165
380	TCTTCAGTCTCTGCGTTCAGC	360
414	TCTTCAGTCTCTGCGTTCAGC	394
1735	GCTCACTTGGAATCTCGTGTC	1715
1666	GCTCACTTGGAATCTCGTGTC	1646
1778	GCTCACTTGGAATCTCGTGTC	1758
1620	GCTCACTTGGAATCTCGTGTC	1600
143	TCTTCAGTCTCTGCGTTCAGC	123
311	TTCCTGGAGCTTCCAGATGG	292
487	CGGCTCGTTGGTAATGTAGTGAA	465
433	ATGGATCAAGGTGAGTGAGGAT	412
825	GTGCGTTGTAGGCTGCGTCA	806
242	GCACTTCTCATTACTGTCTCTCGGT	218
242	GCACTTCTCATTACTGTCTCTCGGT	218
242	GCACTTCTCATTACTGTCTCTCGGT	218
242	GCACTTCTCATTACTGTCTCTCGGT	218
277	GAGAATAAGACGATGTGCTGGAT	255
375	CGTTATCATGCGTTCAAGTGC	355
171	GATAGAATGTTGTTGGAAGTAATGGA	146
1114	CGACAATGAGACTGGAACGG	1095
451	TTCACGAGTTGCTAATGCCA	432
461	GATAATTGTTGGACGAGAAGCC	440
1547	TGTGGAGTGGAGTCTGTTGGA	1527
1541	TGTGGAGTGGAGTCTGTTGGA	1521

1571	TGTGGAGTGGAGTCTGTTGGA	1551
356	TCGTAATCGTCGTTGGTGTCTG	336
97	TCCATTAGACCGAACGCAGA	78
259	CGTCTTCTGAATCTACATCGCCAT	236
140	CGTCTTCTGAATCTACATCGCCAT	117
570	GAGGAGAAGCGTTGTTGGAA	551
859	GCTTCTCGTCATCGTTCATTCTG	838
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928	GCTTCTCGTCATCGTTCATTCTG	907
1110	GCTTCTCGTCATCGTTCATTCTG	1089
928	GCTTCTCGTCATCGTTCATTCTG	907
1110	GCTTCTCGTCATCGTTCATTCTG	1089
943	GCTTCTCGTCATCGTTCATTCTG	922
1125	GCTTCTCGTCATCGTTCATTCTG	1104
370	GTTGATTGTATGATCCAACGATTG	346
541	GTTGATTGTATGATCCAACGATTG	517
916	GCTTCTCGTCATCGTTCATTCTG	895
1087	GCTTCTCGTCATCGTTCATTCTG	1066
365	AGACATTGATTCTGGCTGCTG	346
722	GAGTAGCCACCACCATACGG	703
499	ATATCGCCATGCTTGGATTG	480
759	GACGGCGTAGGCGGTAGATC	740
4422	GGTGGCTGCGTTGATTAGAC	4403
4452	GGTGGCTGCGTTGATTAGAC	4433
175	TTCATCAGCAATGGCTCGTT	156
381	GTCGTAATCTGGCAGCGGAT	362
193	GCCATTGCTGAAGCTTCGAA	174
264	TTCATAATGGTTCATGATCACATTG	240
757	TTGATGAGGTTCTTAGCGAGGT	736
813	CTCCATCGTCGGCTCTCCAC	794
188	TCATCGTCTATTGAGTATCTAGAGTCG	162
107	TCATCGTCTATTGAGTATCTAGAGTCG	81
137	TGTATTCAGCTATCCGAATTGCT	115
288	TGTATTCAGCTATCCGAATTGCT	266
202	TGTATTCAGCTATCCGAATTGCT	180
431	GCAACGAACAGAGCAACGAG	412
232	AACATCCACGGAATGAATGC	213
287	AATAGCCAGAACACAGAGAAGGAGT	263
197	GTTATCACGTCGAGCAGCACA	177
320	CATCCTTGCTGGATGGTTATATTAGAC	294
725	ATCCTGTGGTTGTTGCTGAAG	705
586	ATCCTGTGGTTGTTGCTGAAG	566
1331	TCTTGTGGTCTTCTTCACTGGA	1310
1156	TTCATCGTCATCCTCGTCTCC	1136

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406 TGAATTGTGTTGGTGGTGGA	387
1940 GGAGATGATGTGGCAGTTGC	1921
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766 GACCACGGAATCAGAATAGAATG	744
285 TCTCACATT CATA CAGAAGTTATCAGAA	258
115 CGCAACTTGTT CATTGTTTCG	96
432 GAAGAATGTGGCGAGACGGA	413
152 GAGTTGTAGTGTGCTGGTGGTTAG	129
183 GATCATGCGGCACTGTTGTG	164
141 GATCATGCGGCACTGTTGTG	122
339 GAAGAATGTGGCGAGACGGA	320
364 GTGGAAGCGGTGTAGAGTCG	345
140 TGCTGGCTGTGATAATCCTGA	120
271 GGAGTTCCTGGACTTGATGGT	251
163 TGGTAATGAGGTCGTGGAAGA	143
122 TACGAGCCTGCCACCACCTT	103
122 TTGATGGTGCTGGATGTGGT	103
1164 AATAAGTGAACCAACCAGAAGGAA	1141
1181 AATAAGTGAACCAACCAGAAGGAA	1158
1133 AATAAGTGAACCAACCAGAAGGAA	1110
829 ACGGAGCATTGGAAGCATTG	810
463 CAAGCATT CAGATTGCAACGTG	442
148 CAAGCATT CAGATTGCAACGTG	127
755 ACGGAGCATTGGAAGCATTG	736
816 ACGGAGCATTGGAAGCATTG	797
339 ATTGTGGCGTTAGACTTCCG	320
1262 CACATTGAGATTGATACAGAAGCAT	1238
2204 CACATTGAGATTGATACAGAAGCAT	2180
1012 CACCTCCAGATGAACCACCA	993
1703 CAGCCATT CCTTCAACTCTCA	1683
1304 TGAAGCATCGCAAGACGGTT	1285
381 TGGTGGTGGTAGTGGTCGTG	362
307 GGTAGCCACAGCAGGAGAAG	288
177 TGGTGGTGGAGCAACGAAGA	158
1119 TTCAGGACGGCTTGGAGTTC	1100
1115 TTCAGGACGGCTTGGAGTTC	1096
165 TGATGATGTGCTGGAACCAC	146

144	TGATGATGTGCTGGAACCAC	125
176	CCGTGTCGGCGATATCTTCA	157
208	CAGTTCGGATGATGATTGGC	189
116	TGAAGGTTCTACCGTCCTGAAG	95
1719	TAGAGCGTGGAGGAAGTTGG	1700
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365	GAATTGAAGATCCTTGCGCAA	345
617	GCCTGAGTTATATTAGATTCAAGCAGTG	590
158	TGACTCTGGCAACCGCAGTT	139
136	ATGTGCTCCGAGAGAACTGATAG	114
561	TGGACGGTGGAGGAGAGTGG	542
301	TGAAGATTCCAATATCACCGAGA	279
437	TCGAGCATGTCACAGTAGCG	418
280	CTTCCGAGGTGATCCATCCG	261
1042	CCAGAGTCCAGAGGCGATGC	1023
184	GCGACGGAGTGTCAATGTTC	165
322	CCTCGTTCAGTGTGAGATTGG	302
961	GCAAGCCGAGGAATAGGAGAC	941
158	CCGTTCCATTCCGTTCTGAT	139
151	CCGTTCCATTCCGTTCTGAT	132
698	CGACTCAAGGAATCTCAGGAAG	677
712	GTAATGATAGGCTTCCGAGTTGA	690
135	TTGTGGTGACAGTTATGAACTCG	113
578	TCATCGCAACCAGAATCACG	559
642	TCATCGCAACCAGAATCACG	623
169	GTTGTGGTCCTCGGTTCTCC	150
225	GTCATCAGGCATCGCATAGC	206
225	GTCATCAGGCATCGCATAGC	206
225	GTCATCAGGCATCGCATAGC	206
530	GTCATCAGGCATCGCATAGC	511
530	GTCATCAGGCATCGCATAGC	511
865	TTGTGAGATGTTAGCCGAGATTG	843
558	GATTCGTGTTCTCTCGGTGTCT	537
450	AGACCGTCGTCTGACACTCG	431
345	AGATGGCGGCATTGTGATGA	326
451	AGACCGTCGTCTGACACTCG	432
195	ATCTGTTCCAAGTGTCCAATTCG	173
294	GGTGGCTATCATCGAGGAGA	275
423	TTGTCACTGTTGTGCCTCCA	404
211	TTGTCACTGTTGTGCCTCCA	192
415	TTGTCACTGTTGTGCCTCCA	396
423	TTGTCACTGTTGTGCCTCCA	404
89	CATCCTTCTTCATGGTGATTGG	68
266	ACAGCCGAACATATCGCCTCA	247

237	CCAACCAACGAGTCAGTCTTCA	216
299	CCAACCAACGAGTCAGTCTTCA	278
266	ACAGCCGAACTATCGCCTCA	247
134	CCACTGTTCCGCTGTCTTAGG	114
221	AAGTATATTCAATTCCTCAGCAACTCA	195
916	TCATTAGAGTACGTTCACTTGG	892
651	TTCAGAGTATTCAGAATCCATCCA	628
716	CCATCCAACACAGCGACTTC	697
579	GTCCACAGAGAGGCATCCAG	560
412	GGATCAGATTACTGGTATCAGCCT	389
1793	AGCATCAGCAGCAGCAGCAC	1774
99	AACTGGAGCCTTGATGGTAACG	78
247	CGAGAACTTGAACACGCTCA	228
782	TCTGGATTGTTGTCACCTGT	762
1105	TCTCATCACTTCGCTTCTTACG	1084
343	TCGTCGAAGAGGCTATGTGAG	323
834	TTGCTCGTGTGCCTACTTGG	815
137	GTGGAGCACGCTTCTTGGAT	118
204	GTGGAGCACGCTTCTTGGAT	185
139	GTGGAGCACGCTTCTTGGAT	120
130	GTGGAGCACGCTTCTTGGAT	111
105	GTGGAGCACGCTTCTTGGAT	86
1301	TCTTCCATTGAGGAGATAAGCGT	1279
423	TTGTCCTGTCACTATATTGATGGCT	399
364	GAGAGGATAACGGCGGAGAT	345
169	CAGATGAAGACGCCGAGGTT	150
163	CAGATGAAGACGCCGAGGTT	144
2195	AATGGAACCGATAGAATTGACG	2174
124	TGTCTTCTGATGGCAATGGTG	104
649	TGATGGACGACAAGAACGCA	630
356	TGAAGAATATCGTCTCCTGACACA	333
764	TCGCTGATTGGTTGTGTTGT	745
848	ATCTGACGACGGAGTTGAATG	828
386	ATTGGCACAAGAAGGTAATATCG	364
715	CGTACATCACACTGGTGGCAA	695
244	ACGTGGTGGTGGTGGAGAAG	225
950	ACGCCATCCACATAGCACTG	931
950	ACGCCATCCACATAGCACTG	931
950	ACGCCATCCACATAGCACTG	931
519	TGTTGTATCATCCACGAGTTCG	498
532	CGTAATCAACATCGCTCAGAGTAAG	508
275	TCAGCGTCTGTCATTGTTGC	256
587	CCAACACATTTCGTAGCCACA	568
1174	CGGTGATGGAGATGGTTACAG	1154

137	CCTACACTGCATTAACCTCTACAGTAACC	110
539	AGCCAGAGTCAACTCCAGGA	520
343	CTCCAGGTTGTCCAGGTTGA	324
225	TTCGCTGATGCTCTTGGCTT	206
3422	TTGGCAGACGGAGATCAAGC	3403
2709	TTGGCAGACGGAGATCAAGC	2690
552	ACATCGTCCAGAACACTTGAGG	531
1969	AGCCAACATCATCCAATCGC	1950
460	CCTTCTTATTACATCTCATACCAACCAA	433
428	GCAACGTCGTCGTTGCAGAA	409
393	GCAGTGAAGGCCATGCCAAT	374
121	ATTCGGATCTCGACCTGGAT	102
233	CGTTCATCGTTGACTTGACCAT	212
335	TCACGCATCAATTGCTCCAC	316
652	TGTGTGACCTTCTACTGGATACGA	629
1418	TGTGTGACCTTCTACTGGATACGA	1395
1203	CGGACGGCATACTATGCACTT	1183
430	CGATGAGGACAGCGTAGTTGG	410
337	TTGCCATTAGTTCTTCCGATG	317
228	AATGTTGATAGCGATGAGAGGCA	206
242	AATGTTGATAGCGATGAGAGGCA	220
229	CAGTGATGGAGTTGGTGTCG	210
195	CAGTGATGGAGTTGGTGTCG	176
299	CAGATCGATCACCGGAAGTG	280
117	CCGTGATTATCGTAGTGAGCAGT	95
223	TGCTATCCATTGAACCAGGAC	203
655	CAAGAGAGTTGCGGATGACG	636
148	GGAGCACTGAGCGGTATGGT	129
128	ATACTCGTGCGGCACACAC	109
1007	CCGATTACAACCAAGAATGAGG	986
4020	GAGTGGTGGAAGAAGATACGGA	3999
421	CTGTCGACCACGTCATCAAC	402
1004	CGAGTAGCTTCACGTAATCCG	984
186	AAGACGTTGTCGTCGTCGTT	167
145	GCTCTCTCACACTTGTTCTGGTG	123
316	GTAGTGCTGCTGCGTATGGATT	295
153	CGAGAGGCAGATGTTGTTGAGC	132
495	ACTCTTCATATTCTCTGAGCAATGG	471
251	CTTGGCTCCTTCTGGACCAT	232
234	CTTGGCTCCTTCTGGACCAT	215
153	ATTGAGGCATACTTGGCTTGAC	131
142	CTCCACCACCACTTCCGTTC	123
258	TTCAACAATACCTTATCCATGTCAG	234
174	ATTCAGGACATCATCAAGACGAG	152

416	ATTCAGGACATCATCAAGACGAG	394
528	GAATGGAAGTGAAGCGGTT	509
559	GAATGGAAGTGAAGCGGTT	540
901	GAATGGAAGTGAAGCGGTT	882
2231	TGGTTGGATGTTATTGGTGTCA	2210
1042	GATATTCAGTGGACGAGATGGTC	1020
1026	GATATTCAGTGGACGAGATGGTC	1004
1399	GATATTCAGTGGACGAGATGGTC	1377
895	GAATGGAAGTGAAGCGGTT	876
528	GAATGGAAGTGAAGCGGTT	509
559	GAATGGAAGTGAAGCGGTT	540
901	GAATGGAAGTGAAGCGGTT	882
2169	TGGTTGGATGTTATTGGTGTCA	2148
2200	TGGTTGGATGTTATTGGTGTCA	2179
2542	TGGTTGGATGTTATTGGTGTCA	2521
1996	TGGTTGGATGTTATTGGTGTCA	1975
2338	TGGTTGGATGTTATTGGTGTCA	2317
188	AGGCGTGAATCTCTACATCGTC	167
245	ATTCCAATATGTAGATCGTCTCCTAGT	219
489	TCTTGTGAGCCTGACGGTACT	469
233	AATGTATGGAAGGAAGGCGAT	213
470	TGAACTCGCTGTTGGTCCTC	451
378	TTCATACAATATTATGAAGCTCACACC	352
629	CCGTCTCCTCCGAGAAGTGTAC	608
193	CTGCCACCACTGCTCCTTCC	174
342	CCATAGAGAGCCACTGTTCACTG	320
233	GATCCTACGGCTTGACAAGACTT	211
603	AGCCACTCCAATACGACCTTC	583
569	ATCAACTATCGCTCTTCCAATTAC	545
1080	CGCTGTTGCCTCTACCTCCA	1061
654	CGTCGGATTCTCATCGACTC	635
410	CGGTTGAAGTGCAGCCACTT	391
410	CGGTTGAAGTGCAGCCACTT	391
410	CGGTTGAAGTGCAGCCACTT	391
526	CAGTGTGAGTGCGAGCAGA	507
351	CGCCATCTTCACCTTATCCG	332
126	AGCACAAGTCTGCTCTTCATCA	105
401	GCATCGTGGATTCTGTGAA	382
396	ACGCTGAATACCAATCCACAC	376
997	TTCGTCTGGTCTCAATAAGACATAGGTT	970
160	TCGAATCCTGGTACAATATGCA	139
340	TCAACATTATTCTCATCATCATCCG	316
440	TCAACATTATTCTCATCATCATCCG	416
1627	AGCACTTCTGGAGGATTGGC	1608

323	GCCGATGTATCTCCTTGTTCTTC	301
116	AGAAGCACCAGCATCACCTC	97
135	GCTCTTCACCTGACTATGCAATTAGTG	109
121	CCAGTGCCAGTGCTGAAGAAG	101
454	GGAGAAGAAGGACACTTGCGA	434
2147	TAAGATGCCGTCCACCAGAT	2128
2090	TAAGATGCCGTCCACCAGAT	2071
1370	CCAATCTTCTCAGCATCAGTCG	1349
277	TGTCGTCTTGCCATCCGTAG	258
827	TTCCACCAACCACAGCACAA	808
328	CCGTGAGAATGACAACAAGAGA	307
334	GGACACACCAGCCTGAACTGTT	313
1282	TGCCGTTCTCGTCATTGTCA	1263
1264	TGCCGTTCTCGTCATTGTCA	1245
1047	TTCGTCGTCGCTGTATTCATC	1027
284	ACCGACCTTGTAGTGGATGTAGA	262
257	GGTTCAGTGGAAGTTGACAAGG	236
257	GGTTCAGTGGAAGTTGACAAGG	236
195	GGTTACAGTACTTGTTGCAATTGTAGTC	168
975	GCCGCCAGTTCTTCAAGATC	956
351	GCCAGAGATCGCAATGAATACG	330
345	GAACATTCGTAATATCGTAGATTCGTC	319
777	AAGTAGCCAGATTCCAGTGTCAAGG	753
910	GGATTGGTGATACGCTGTCTG	891
209	CGTGGAAGTGTTCGACGAAGA	189
253	CACATATAGCAGATGGATCACAATC	229
776	AAGATGAGTGGAACGGTTGC	757
201	GGCGATGAAGAGGTCCAGAA	182
950	TGGAAGAGGCTTCGTCGATT	931
798	CATGATCAGTGGCAATGCAA	779
158	CCGGTTGAACTGTGTGGACTT	138
213	CCGGTTGAACTGTGTGGACTT	193
272	TCGTACACACTGTCCGATATGG	251
1204	CGGCATAACTGAATCCATAGC	1184
500	TCACAACCTCCTGCGGAATG	481
1076	CCTCTTCAACAACCTCCATCG	1056
1107	CCTCTTCAACAACCTCCATCG	1087
975	CCTCTTCAACAACCTCCATCG	955
981	CCTCTTCAACAACCTCCATCG	961
1223	CCTCTTCAACAACCTCCATCG	1203
1068	CCTCTTCAACAACCTCCATCG	1048
589	GGAAGAATGAGTCAATGACAGAGG	566
597	GAAGAATGAGTCAATGACAGAGGTC	573
298	CATTCAAGACTTCTTCCGCCAA	277

296	TGCATTCCGAGAATTGAGCA	277
368	AGATCCTTGACGGCTTGTGC	349
535	TCAGAAGGTTGTTGGACGATG	515
854	TGTTGGTTATTGTCGTTGTTGC	833
802	TGTTGGTTATTGTCGTTGTTGC	781
726	TGTTGGTTATTGTCGTTGTTGC	705
726	TGTTGGTTATTGTCGTTGTTGC	705
476	TGTTGGTTATTGTCGTTGTTGC	455
374	TGTTGGTTATTGTCGTTGTTGC	353
726	TGTTGGTTATTGTCGTTGTTGC	705
575	TGGAATGTCCGTACAACCTCGT	555
584	TGGAATGTCCGTACAACCTCGT	564
373	CCACTCGAATCATCCAATCC	354
242	GGTGTGCGAGCGCAGTGTAAC	223
338	GCTATCCGTGGTGCTGGTCA	319
498	GTCCGTGTGAGCGAAGAGGT	479
311	AACTGGTGACGGAGGAACGC	292
729	GCAGACGATGACGGAGAGATG	709
818	CCAGGTAGGTAGCCAGCAAGA	798
171	CACATTCCGTGCGTTGTCTG	152
1440	GGAAGCGGTAGTGGTACTGTTG	1419
164	TAAGTGAACGGAAGTCCTGGA	144
158	CTGGCTGTGAACGTGGTGTA	139
171	CACATTCCGTGCGTTGTCTG	152
1294	TCATCTCGTTCAGTGACTCGTT	1273
925	GTACCTCACGATCCACGTCACC	904
211	TTACAGAGATATCCTTGGCAACAG	188
427	TCGAAGACTGCTGTCTGTCG	408
1163	ATTAGTTGTTGGCAGAAAGTGGAC	1141
141	TGTCAAGCATAGGTCGGAGTCT	120
741	CCAATGATGTTGAGCATACCG	721
293	TAGTTATCCGCACGCGGTTG	274
454	AGAGACGATGTTCTGCCAA	435
499	TGTCGGACAGAGCATGAAGATC	478
812	CTTGAGACGAGATTGGTCACTTC	790
429	GGTTATCCATGCTTCCATCTCTG	407
123	GCCTGTGACTAATGGTTGATGTG	101
97	TTCTGGAGATGAGCGCACTC	78
221	TTGATAGTTCTCCAATTTCGGAA	199
370	CGTTCCAGTCCTCAATAATCCA	349
388	CAGGTTGATGGAAGTGATAGACG	366
200	TCGTTATCATATCCGATAGGCAA	178
293	ATGGCGATTATTGTGAACTGC	273
254	CATGAGCATTCTGGAACCTT	233

127	TTCTGCTCATACTCGGTCATATTCC	103
870	CTTGTTGTTGTGATCGGTTC	850
578	CCATCAATATCATTCAATTGTTCAATC	552
421	GAAGTTGACGGACAGAACGG	402
1540	GATGAGGAGATTCCATAGTGTCTG	1518
202	GAAGTTGACGGACAGAACGG	183
1183	GATGAGGAGATTCCATAGTGTCTG	1161
76	AATGGTAGCAGATGTTCTTCGG	55
3060	GCTGGAACGAGAAGATTGACG	3040
1189	GTCTGATCCAGAGATTCGGTGTT	1167
534	GCCTTCTCCATCACCTCCTT	515
516	GCCTTCTCCATCACCTCCTT	497
312	GCCTTCTCCATCACCTCCTT	293
262	GCCTTCTCCATCACCTCCTT	243
541	GATCGTAGTAGGCAATGTGTTGTG	518
273	ACACCAGAACACTTAGCTCTTCG	251
165	GCCGAATAATGCATATAGAGTCACA	141
252	AGTTGATCTGCCGGTTGCCT	233
379	CCATTAGAGACACACATTGCC	357
560	CGTAGAGAATCCGAGAAGATCCATA	536
374	TTCAAGACCACTGCGATGTAGA	353
592	TCGATAGTTCGCGGAGGAAG	573
2233	GCTCACAGAATCGGAAGTAGGT	2212
2211	GCTCACAGAATCGGAAGTAGGT	2190
2125	GCTCACAGAATCGGAAGTAGGT	2104
2189	GCTCACAGAATCGGAAGTAGGT	2168
200	ACCACGTCGAACATTGATCC	181
1839	GCGACGGATTGAGTTGAAGG	1820
1839	GCGACGGATTGAGTTGAAGG	1820
694	GGAGACGTTGGTTAGCTTGGTG	673
280	GGAGACGTTGGTTAGCTTGGTG	259
655	GTGGTGGCAACGAATACTCC	636
224	GTGCTCGTTCTTGGCTCCGT	205
475	GTGCTCGTTCTTGGCTCCGT	456
275	TGAAGCATCAGGCCGTCATC	256
275	TGAAGCATCAGGCCGTCATC	256
1576	CATCGCAGACTGTTGATTCTGT	1556
440	CTGTTGTTGTACCTGTATCGTCTCC	416
393	TGCCTTCTTCTCATCGGACT	374
695	GGTAACCGTCAGATAATTCACCA	673
698	GGTAACCGTCAGATAATTCACCA	676
768	GGTAACCGTCAGATAATTCACCA	746
1324	CGTCTCTATGTGCTCCAGTCTCA	1302
916	GGAGGTGGATGGAACAGATGA	896

200	CCTGATGACAACAGAGTTCCAA	179
454	TTCAACTCTCGATGGCTCCTT	434
2674	CGTCACAATCCTCACCGTTC	2655
2674	CGTCACAATCCTCACCGTTC	2655
1035	GGCGAGTCCGATGGTGATAC	1016
1035	GGCGAGTCCGATGGTGATAC	1016
223	GCTTCTCATCTCCTCTTCAACAATC	199
216	CCTGATGTGAAGTGTGGATTGTC	194
216	CCTGATGTGAAGTGTGGATTGTC	194
119	CCTGATGTGAAGTGTGGATTGTC	97
187	CCTGATGTGAAGTGTGGATTGTC	165
216	CCTGATGTGAAGTGTGGATTGTC	194
395	GAAGGATGTGGTGGATGGTGAA	374
655	CCATCGTTGTATTCAAGATTGCT	633
913	GCTTCTTGCGGAATAGATTACCA	891
220	CAGGTACCGTAGAGACACCGTT	199
864	TTAGGCAGACAGCACTTCCAG	844
232	AACTCGTGTAAAGACTTGGAGAGAGA	208
280	TTGTGATGTGTGATAAGGTGTCC	258
934	GGCACTTGACGGTGTTTCATC	915
253	CGGTAAGTGTTCCATTAACGATCTC	229
1097	GGTGGTGTGGCTGGATAGAC	1077
1097	GGTGGTGTGGCTGGATAGAC	1077
238	CTTACACGCTGCCTCGATCC	219
1088	AGGTGGTGTGGCTGGATAG	1069
528	CCAACAAGAATCCAGCACCAA	508
1839	GGTGATTACTGGCATTCTGTCG	1818
133	ATGTGGCAACAACCTCTATCGC	113
1099	CTTGTAGCGTTCCTTCTCGTG	1079
1105	GATGGTCTTGTAGCGTTCCTTC	1084
1091	GATGGTCTTGTAGCGTTCCTTC	1070
311	TGCTCAACGCTCTTCTGGAT	292
1313	GATGGTCTTGTAGCGTTCCTTC	1292
701	GGAGGAGTTCATCTTCGAGTCTGTC	677
1021	GATGGTCTTGTAGCGTTCCTTC	1000
942	CTTGTAGCGTTCCTTCTCGTG	922
1313	GATGGTCTTGTAGCGTTCCTTC	1292
1105	GATGGTCTTGTAGCGTTCCTTC	1084
1091	GATGGTCTTGTAGCGTTCCTTC	1070
1091	GATGGTCTTGTAGCGTTCCTTC	1070
940	CGGAAGTTCGGATAACCAGGA	920
1025	CGGAAGTTCGGATAACCAGGA	1005
937	CATACACTTCACACAACACTTGGATT	912
1022	CATACACTTCACACAACACTTGGATT	997

233	CGGATTGTGAGACGGTAGCC	214
304	CGGATTGTGAGACGGTAGCC	285
1093	TGTTGACGATTGTGGATTGC	1074
123	CACCGTCATAGCAGATTGGAA	103
759	AGAGTGAGTAGATATTCGCTGGCT	736
805	GAACCGAATTGTCCAAGTGATG	784
686	GAACCGAATTGTCCAAGTGATG	665
802	GAACCGAATTGTCCAAGTGATG	781
910	GAACCGAATTGTCCAAGTGATG	889
808	GAACCGAATTGTCCAAGTGATG	787
122	GAACCGAATTGTCCAAGTGATG	101
1287	TGATGGATGGTCTTGTCTCG	1267
1342	TGGCGACTGATTGAAGCATA	1323
187	GGAGTGTGAGCGTGGTCTGT	168
746	ATCCAATGGAAGACTTATTGTTCC	723
787	ATCCAATGGAAGACTTATTGTTCC	764
463	ATCCAATGGAAGACTTATTGTTCC	440
308	GCTTATCGAACTGCTCTCCAGA	287
146	CATTGACGGATTCGGTAGACA	126
536	AGGACGAGAACGGAGTGCAG	517
228	GTACAGAGCGGCGAATGGTT	209
129	CATCATCCGACCTCAACTGTG	109
260	CGAGTGGAGGAGATGAAGAGAG	239
791	TCATCATTATCTTCAGGATTCAGC	768
1292	GGTGGCGTTGTTGTGGATGA	1273
343	CGAAGACATACGACTCGCAA	324
122	GCAACATTCAATCGGCGAGT	103
582	ACCGTAATCACCTCCGAATG	563
266	TTGAGTTCCGCCAATCGACT	247
364	TTGAGTTCCGCCAATCGACT	345
653	AATACACATCCGCAAGACCAC	633
439	CATGACCACAACGAAGTCCA	420
733	CGAGAATCCAATCACGAGTTG	713
1247	CGAGAATCCAATCACGAGTTG	1227
1179	CGACTCTCTTCAACAACCTTCACC	1157
172	CACAGACACCACACACAGACA	150
883	TGCGATTGGAAGGACGAGTT	864
945	GAGAGATGAAGCCAGTGAAGGA	924
494	CGTGGTGTGGTCGTGTTAG	475
1039	ACGTCAGAAGAGTTCCGCAA	1020
957	TGTGATGGACATACAGGCGGTA	936
2615	TCTCCAATGTGGCAGATGGC	2596
2199	TCTCCAATGTGGCAGATGGC	2180
1708	TCTCCAATGTGGCAGATGGC	1689

633 GCATACTCTTCTTCATTACACGAT	609
136 TGATATTCTTCATTGTATTCAAGAGAGG	109
200 GGAACACATTCTGCGTCAACA	180
486 TTGCTGAATCCGTCCTCGTC	467
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644 TTGCTGAATCCGTCCTCGTC	625
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445 TTGCTGAATCCGTCCTCGTC	426
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181 AGCATGGCGTAGTACTCAATCTCG	158
335 AGCATGGCGTAGTACTCAATCTCG	312
181 AGCATGGCGTAGTACTCAATCTCG	158
146 ACACTATCTGTTACTTGACGCATCA	122
136 GGTGATAGGCGATTGATGTTCC	115
737 GGCATATAATGATGAGGTTGCTT	715
737 GGCATATAATGATGAGGTTGCTT	715
428 CGGCTATACAGCAACAGAATGTCG	405
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432 CGATGGCATATAATGATGAGGTT	410
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147 CGATGGCATATAATGATGAGGTT	125
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143 CGGCTATACAGCAACAGAATGTCG	120
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2104 GGCGAACACAATCTTCAATGG	2084
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179 TCTTCAGGCATTGGAGCAGT	160
2323 CGTTGCTTGATGATGATTGGTG	2302
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174 CCATACCGGAAGTGTGTTGC	155
744 GATGATGTTCCCTGATTCTGATTCTGA	718

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409	CGTCCACGAGGACAATGTCA	390
239	GAATGTTACCTGGCGAGTGG	220
224	GGAACGCAGAGGAATATGACG	204
396	GGCAGAATTGAGGAGGACAGG	376
306	CCTCAATGTTTCGACGCATCT	287
952	AATCGTACACGTAGGATGGATGT	930
326	GTTGTCCTTGGAATGGTTGC	307
1005	ATTGTTGGAGCCTTGTTGG	986
218	TTGAGACACGTGGCTGTGAG	199
565	GGTGGTGTCTGATACTCGCA	545
565	GGTGGTGTCTGATACTCGCA	545
206	TTGCGAGTCTTGATGAACTCAT	185
355	TGTAAGAAGATAGACTGGAGCGATT	331
4113	TGAGGATGTTGATGGAGAGTCG	4092
4122	TGAGGATGTTGATGGAGAGTCG	4101
4059	TGAGGATGTTGATGGAGAGTCG	4038
357	CATTACAGAATTCGAGTATCCATATCC	331
786	TGGTGGTGGTGGATGTAGAAGA	765
348	TTGTTGAGACAGTCCACGCA	329
487	GTTGGAGCACTGTTAAGCGTTG	466
428	TCCTATTAGAATTGCAGATACAGTCC	403
779	AAGCCGTAGTGGTGGTGGTG	760
509	CATATAGCTTGGCTCCTCTCTCA	487
725	TGACGCTCAACTCGCTCACT	706
156	CAAGTGGTCCATTGACTCCGAA	135
386	GGTTGCTCCAGGCGTCACTT	367
416	CCGATATAGAGAAGTGACACTCCGA	392
572	CCGATATAGAGAAGTGACACTCCGA	548
559	CGGATCTCGTCGTAGGCAACT	539
180	GAATTCACCTCGACGAGCAT	161
3723	CGACAAGTTCAGGTTCAAGCC	3703
806	GGAGTGGATTGTCTTGGAGTGATG	783
806	GGAGTGGATTGTCTTGGAGTGATG	783
613	TACACGGCAGCACCATTAGG	594
190	TTGGATCGTCAATGTAGGCAA	170
4815	TCCATCAGCATCCACAGACTC	4795
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228	TCTGACCATCATTGCACGAA	209
889	TGTCACCATCAGCAGCGAAT	870
337	TGGTCAGTGTATTGATTGTGAACA	314
126	TAATTCACCTTGTTGTTGTCCGT	104
173	TGAACGTCACCACGAGTGTC	154

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1325 TGAGTTATCGTCGCCGTGA	1306
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654 GAAGACACGGAATGGTGGCT	635
467 GAAGACACGGAATGGTGGCT	448
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2458 TTCCAGCAGTGTTACCGTTGA	2438
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99 GGAGTGGAAGTAGAGATGAGTGCT	76
232 ACATTGTCACAATACCGATAGGCT	209
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356 GATGTTGTAGGCTCGTCGTCA	336
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328 ATCGCACGCATCAGAGTTGT	309
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686 CTGAGGCGACGAGAAGATGA	667
617 CGCCTCCAGAAGAGTTGTCC	598
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511 GAGTGGTGGCTGGTGAGTAGA	491
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136 TTGACTCTTCTGTTGCCGATT	116

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832	CAACGAATAGTGGACGAGAACG	811
592	CAACGAATAGTGGACGAGAACG	571
619	GCAGTTGCAGAGATGATGGAA	599
192	TCCGTCAATAACCACTTGCTT	172
314	CGAGATGACGACGATGATGCT	294
261	CGTGCTCAAGTTGTCCAATGTTG	239
509	TTGGAGGTGTCAATGGTGAAGG	488
548	TGGTCAGCGGAAGTGAGGAA	529
462	CGTTGATACATCTCGAAGTCCAG	440
748	TGAATAGGAATGTGTTCAGTGG	725
608	CGCTGTCACTTCCTTCGTTT	589
1422	CCTCGTAGATGTCGTTGTCCA	1402
1424	CCTCGTAGATGTCGTTGTCCA	1404
246	GAATCCTGTGATAATCCGAGTCC	224
91	CACCAGTTCAGATCCACTTCC	70
91	CACCAGTTCAGATCCACTTCC	70
1069	TTGTGTTGGATTGACTGTACTGAA	1046
302	ACGAATCTCCGAGACCGAGTAC	281
302	ACGAATCTCCGAGACCGAGTAC	281
163	GAATGCCTTGAGATCCATCGG	143
218	GCATACATTGAGCACAGTGAGATC	195
151	TGGTCGAAGAATGTGGAGGA	132
511	CTTCGGTGATGGCAGTGGTG	492
1250	GTTCTCCACTACTTGCTCCAC	1229
979	CAAGTCACGTTGTTGTTCTTGT	957
979	CAAGTCACGTTGTTGTTCTTGT	957
1694	CATTGTGACCGAGTAGCAGCA	1674
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1703	CATTGTGACCGAGTAGCAGCA	1683
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118	TTGTATGCATTACACACATTGGC	96
118	TTGTATGCATTACACACATTGGC	96
219	TGTTGATTGGACACCTTCTTCG	198
193	TGTTGATTGGACACCTTCTTCG	172
193	TGTTGATTGGACACCTTCTTCG	172
219	TGTTGATTGGACACCTTCTTCG	198
351	TCGATTGCGTCGTGTGGATT	332
252	TCGATTGCGTCGTGTGGATT	233
262	TCGATTGCGTCGTGTGGATT	243
212	GTCATCATGATCGCCACGTG	193
430	AGTATTCATCCAACATCTCTTCGT	405

653	TTGCTTCCTCACATATTCTCCTG	631
332	AGTATTCATCCAACATCTCTCTTCGT	307
774	GATAGGAAGGAATACAATTACGAATGG	748
101	TTACATCCATTGGCATATCGG	81
165	GGACTGTCAATCTGCTGAATGG	144
220	AGCCAGGATCAGTGTCATCG	201
220	AGCCAGGATCAGTGTCATCG	201
819	AACTCTCACAACCTTCTGGCTCAA	797
129	AATCATATGAATCACATCCACTGG	106
223	CGATGAGCACTTGGCTGAGT	204
1154	CAACAGTCGACTCAATTGCG	1135
3005	GCAACTCCAGCAAGAAGCAT	2986
713	CCACCAACTTCCTCTGTATAGTACG	689
140	TGGAATTACACGTCATAAGTGCTCT	116
1285	CGTCACAGAGTGGTGGATATGGAT	1262
1307	CGTCACAGAGTGGTGGATATGGAT	1284
1285	CGTCACAGAGTGGTGGATATGGAT	1262
1318	CGTCACAGAGTGGTGGATATGGAT	1295
1318	CGTCACAGAGTGGTGGATATGGAT	1295
711	GTCACAGAGTGGTGGATATGGAT	689
733	GTCACAGAGTGGTGGATATGGAT	711
711	GTCACAGAGTGGTGGATATGGAT	689
1312	CGTCCTTATCCTCGTCTGTCG	1292
204	GCGGAGCCAACTGTCGTAGA	185
214	GCGGAGCCAACTGTCGTAGA	195
117	GCGGAGCCAACTGTCGTAGA	98
629	TGAGCGAGTCGATGTGCAGT	610
247	CCTGAGTTCCTGTGTAATAATGTCG	223
270	AATCTCGACGCTCCAGGATC	251
279	TCTCTCCTGAATCTCGACGCT	259
732	AAGTGAACGAAGTGAACGAAGAC	710
1435	GATGAGGTGGTGGAGTGTCG	1416
290	ATTGTCGAGATGAGCACGTAGA	269
1441	GATGAGGTGGTGGAGTGTCG	1422
245	ATTGTCGAGATGAGCACGTAGA	224
544	TAGGCTTGAAGTCCGCAGTT	525
1187	GCATCCATTCTTCTGAGACACA	1165
448	AACTGACACCTGGCTCCGTA	429
961	TACACACAGCGCCACGTAGG	942
548	ACGAGAGAGGTCCGATTGAAC	528
634	CGCTACAGTCTCGCATTCCA	615
136	GGTTACGGATCAGAGCTTGTACTG	113
646	AGCTGGATGGAATGGAGGTG	627
498	AAGGCGGTGACGAATGAAGA	479

2393	ACTGACGACGAGAACCAGAACT	2372
1086	ACTGACGACGAGAACCAGAACT	1065
126	GTGCTCTCGTCCGTCTCGTT	107
144	GTGCTCTCGTCCGTCTCGTT	125
105	TGCTCTCGTCCGTCTCGTTA	86
408	CGACCTCATCAATCAATTCTTCG	386
281	GAGTGCCGCTGGTTCAGTTG	262
400	TGTTACAGAGACCTCATAGCCAGA	377
126	GAGTGCCGCTGGTTCAGTTG	107
253	CGACCTCATCAATCAATTCTTCG	231
85	TCCGACACACGAAGATCAGAA	65
401	TAACCAGGCGTCACTTCCAG	382
127	TAACCAGGCGTCACTTCCAG	108
440	TAACCAGGCGTCACTTCCAG	421
183	CACCGATTCCGAACGAGATG	164
133	GGAGAGAGCAATACATCCGGTACA	110
323	TTGAGCCATTTCGTCGTCTGC	304
332	TTGAGCCATTTCGTCGTCTGC	313
162	TCGTACAATATTCATTCTTCAACAACA	135
153	TTCTGGCAGGATGCGGTAAG	134
221	GGCGAGAATGTCGGTGTATG	202
720	GGATTGGAAGACGATTATGACG	699
720	GGATTGGAAGACGATTATGACG	699
1529	TCCTCTTGGCTGACAGTTGG	1510
497	CCGTAGTGATATTCGATTGTGTCT	474
331	TTACCGCACACTGATTGATAGAAG	308
120	ATGTTGTCTTCGGCTTCAGAA	100
146	CTGTGAAGAGAACGTGCCACT	126
135	CAACGACATGGCTCTACACTCC	114
164	TCAGATGTTGCAGTTCTTCCG	144
388	TGTTACGACTGGCTGTGGAA	369
1089	TCACCAATCACTGCTTCACG	1070
728	TGAATGCGGTGTCGAGAATG	709
232	CCAGGAATGCCACACAACTGTC	211
217	TGGTCTTCAACAGGTCGATTAGAGC	193
1786	CCTTGCGTTAGCCATCCGTT	1767
1655	CCTTGCGTTAGCCATCCGTT	1636
509	GTCGGAGGCTTCTTGTTGA	490
378	GTCGGAGGCTTCTTGTTGA	359
509	GTCGGAGGCTTCTTGTTGA	490
509	GTCGGAGGCTTCTTGTTGA	490
378	GTCGGAGGCTTCTTGTTGA	359
231	GCATTGTGTTGCGATGTCAA	212
121	TTCGTTGGTTCCACTTGTCC	102

429	G TTCACAGCCTCCAGCATT C	410
240	GCTGCATCTGTTGGAAGAGG	221
310	ACCAGTTATCGGCGTCAGGA	291
122	GCTGCATCTGTTGGAAGAGG	103
1953	TTCGGCAGAGTCGTAGAGGA	1934
384	ATTGGACTGTGCTGCTTG TGAC	363
1324	CCGTCGCCGTCTCTTCTTCT	1305
935	TGGAAGTGAAGGTGAAGG	914
263	TCCAGATATTCTTCTGATTCCG	241
1735	AGAAGAGACGGCGACGGATA	1716
606	TGATGAGGCAGTAGATGATGGA	585
536	CGAACATTACGAAGTGAAGAACA	511
720	GGTAGTGAACGATGTTGTTGGAG	698
410	TAGAGCAGTTGGTCGCATTG	391
220	CGATGAGCAACGAGAGAAGTG	200
654	TGTCTTCAATTCCACGTACACTTGC	630
2228	AACTCCTCCGAACCAGCATCC	2208
115	GGATACGGTCGATACCTCCA	96
2461	TCCGCATCCTCTGAATCCTG	2442
2069	CGTGATGTTGATGGTGGTTG	2050
198	CTTCGCTACTCCGCTGTTGA	179
190	TAACTTCAACGGTGGAAGGC	171
159	TCTGAGGTTGGTGAAGTGAGC	139
135	GAAGTTATCAACAGCGGTCCGT	114
443	CCAGCGTCGCTACTCAGTCA	424
518	CGAATTGACGAATTATGATGACG	496
528	CGAATTGACGAATTATGATGACG	506
1153	GCGGCTCGGTGTAGATAGAG	1134
129	GAAGCCAACAAGGAAGTCGGT	109
129	GAAGCCAACAAGGAAGTCGGT	109
740	GCGGCTCGGTGTAGATAGAG	721
322	GCAGGCATCGTACTGGTCTC	303
1842	CCACTAACAATACACTCGGTCAGC	1819
157	CTCTTCTCCTTCGGCACGCT	138
449	CGCTGCTTAACCTCGTCGAA	430
153	CAGTAGGTGGTCCGATGAGGT	133
654	CGTATCTGTGGTCCGGCTTA	635
152	TTCACATACTCCATCTCCTCAA	130
121	GGCTATCCACAGCAGTTCGG	102
130	AGCGGTTGATGAGTTATGCG	111
142	ACTCGGCAATGCGAATAACG	123
690	ACTCGGCAATGCGAATAACG	671
780	CTCGCAACAGAATATATTGCATCT	757
191	AATCGAACTCCAAGCTTATCCA	170

140	TTGAACGCAATCTTCACGAA	121
157	AGCCATCTCACGTAGAACAGTTC	135
173	AGCCATCTCACGTAGAACAGTTC	151
86	AGCCATCTCACGTAGAACAGTTC	64
137	AGCCATCTCACGTAGAACAGTTC	115
332	AGCGTCGTATGGAGATGGAG	313
141	CATCGGATCTAACTTCAGGAGCAT	118
141	CATCGGATCTAACTTCAGGAGCAT	118
314	GCACTGGCACTGGCAAGAAG	295
381	AGATTGTCTCTGAGCCTTGTTGA	359
3866	AACATCCAACCTCTCGCTTCACT	3845
398	TGTGACGAGACTGTGTTGGAGT	377
1305	GAAGGAGAACTACAACCTGATGAACC	1281
1276	GAAGGAGAACTACAACCTGATGAACC	1252
134	GCTCCATCTCCGACTACCACT	114
167	ATCGACTCCGCTGACTCATC	148
736	TCAGGAGATCACGGACCACT	717
756	CACTCCACTGTATTCACATAACGC	733
196	GCTGATTGTTGATACGGTAGCG	175
198	CGAGACTCACTGATCCAGCA	179
445	ATTGAGAGGTTGGCTTCTGATC	424
282	AGTGACCGCATTGAAGTATATCG	260
543	TCGCCGACAGAGAATACAGTT	523
410	TCGCCGACAGAGAATACAGTT	390
231	TCGCCGACAGAGAATACAGTT	211
392	AATATGTGATTGTTGAAGGTTGTC	368
264	AAGTCCAGTTGTCAGCACCACT	244
690	AGGCAGTCCATCTCAACCAGT	670
691	AGGCAGTCCATCTCAACCAGT	671
690	AGGCAGTCCATCTCAACCAGT	670
330	AGGCAGTCCATCTCAACCAGT	310
691	AGGCAGTCCATCTCAACCAGT	671
671	AGGCAGTCCATCTCAACCAGT	651
251	AAGCGAAGCACGACCGAACT	232
475	AATCTATCAGCGTCCACCATTC	454
727	ACCTCTGTGGATCTTCTCAAGC	706
205	GCTGACATTGAGGTGTTGATGA	184
261	GCTGACATTGAGGTGTTGATGA	240
868	TTGATAACTGGAAGTGAAGATGGC	845
1440	TAGCGATTGTGACGGACGGT	1421
142	GTTGTCTGTCTGACCTCTCACG	121
126	AATCAGGCATATCTCCATAACCA	104
476	GTGTAGAGCGGTGATTGCGA	457
445	AACACCGGAGACTCGGAACC	426

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345 TCAGTAATATCTTCAGCACGGACA	322
560 CGAATCCATCCGGATGTGTA	541
257 CGGTTAATGAGGCGTTGGTCA	237
225 CCGCTTGATTCTAGTAGATGACA	202
141 CGGTTAATGAGGCGTTGGTCA	121
661 AAGTTGTGCACGGAGTATCAGG	640
276 TGCTTCATCGGTTACTCATGC	256
665 CTGGAGCACGGAACAGTTGG	646
240 GATTGGACAGTTGCACAGCTG	220
221 GATGAGTTGTCCACACCTAGTCTG	198
465 GATGAGTTGTCCACACCTAGTCTG	442
558 CAGCGAACTATTCTTATATACGTACACA	531
158 GATTGGACAGTTGCACAGCTG	138
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836 AATCGTGTTCCTCGCTGA	817
733 CAGAGAACAGGTCAAGTGGACAGAA	709
519 GCAAGAAGATACGATCATTGGATT	496
651 TGAGAAGAACGCCGACGATT	632
1639 TTGGCACTGGAACCGATAGG	1620
520 TCCGATTGACATTGACGATTC	500
520 TCCGATTGACATTGACGATTC	500
922 GCTGTCTGAATGCTTGTGGTT	903
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1115 CGACCGTAGAAGCAGTGAGG	1096
671 CGTTCTTCTTCTGCTCACGGT	651
671 CGTTCTTCTTCTGCTCACGGT	651
423 TAGACCATATGCGTACTGTATCCAC	399
624 TAGACCATATGCGTACTGTATCCAC	600
244 CGTTCTTCTTCTGCTCACGGT	224

197 TAGACCATATGCGTACTGTATCCAC	173
358 CCTTGCTCTCCGCTAACCGT	339
353 CCTTGCTCTCCGCTAACCGT	334
147 CCTTCTGTTACTTCTCCGACTTCT	124
738 GGAAGGAGGCGATGAGTTGC	719
339 GGAAGGAGGCGATGAGTTGC	320
114 CGAGCACACTACTTCCACTGAG	93
163 CGAGCACACTACTTCCACTGAG	142
114 CGAGCACACTACTTCCACTGAG	93
378 TGTGATGTGGTAGCAGATGTGA	357
778 CACCGAATGGAAGTACAACATG	757
2315 GGCACAGTCTTCGTCGTTCA	2296
286 CGGCACAGTCTTCGTCGTTT	267
357 CGTCTTGGTGATGAGGATGC	338
134 CGTCTTGGTGATGAGGATGC	115
682 GTAAGTACTTGGCGGATTGC	662
637 GTAAGTACTTGGCGGATTGC	617
452 TGGCTTGAAGTTGACGGAAG	433
745 AGTGAATTCGCTTCATCGGA	726
326 TTGTCGTCTCGTCCAGCATT	307
237 AACCAACCATTAGGAACGCACTT	216
86 TCAGCAAGGTGAGAACTACCAATG	63
330 TGCATTCCGTATATTGTCATTC	308
562 CACATCCTGTGTACTCGGCAT	542
277 CACATCCTGTGTACTCGGCAT	257
136 TTGGACTCCTATTCACTCTTCCA	114
1327 GCTGTATCCATCGTTCCTTGTC	1306
249 CCACAGTCTCCTCAGCATCG	230
252 CCACAGTCTCCTCAGCATCG	233
707 TGCATTGCTCCGTCTTCTGT	688
380 TGAAGAGCTGAATCACGATGC	360
458 CTCCTGTGCACCAAGATTCTG	439
442 ACTCTCCGAATGCGTTGACC	423
730 TGCATAGCTGTCGTCTTCGA	711
553 TTCATTGGTTGTCTGGATAGCA	532
299 GGCTGAGTGAGTGATTCATAGAAGA	275
429 CGCAGCAATACCAGTAGAAGC	409
273 TTGAGATGTTGAGGCGTAGAAGA	251
3983 TAGGAACGCAGGAAGTGGAG	3964
1685 ACTTCTCGGTCGTCCTCGTG	1666
922 GGTGCTGGTGTTGATGCTGGT	902
226 TTGCTGGAACCTGAGTGACG	207
125 TGTCGATATGCTCATGTCAGAGAG	102
302 CCTCTGTGTATCCAGTAATGAGCAAG	277

1337	CCTAATAAGCCGAATGTCAGAGA	1315
525	CGAACGAACTGATGCCTGAGC	505
743	GTAGTGGCAGGTGACGGTCT	724
173	GTGGTGTGAAGGCGGTGTA	154
368	GCTGTGACGAGCCAGTCTTG	349
573	CTGAAGATGTCGAGCACACACG	552
388	GCTTCGTTGGCAATCTGTGA	369
538	TGTCGCTGCTTCGAATAGTGC	518
1165	TGTAGGAGAAGATAAGGAGAAGAGCAA	1139
1057	TGTAGGAGAAGATAAGGAGAAGAGCAA	1031
2449	GCTGACACCAAGGAAGGACA	2430
1443	GTTGGCGAGTTGAAGCGGT	1424
2436	GCTGACACCAAGGAAGGACA	2417
1199	TTCCATTGTTGATGCCGTAA	1180
559	GTAGAATCTGATTGATGAGTCGTAGC	534
204	ATGAGCTGACCGAGCACTTG	185
288	TTCTTCATAGTCTCTTCGTCGGA	266
288	TTCTTCATAGTCTCTTCGTCGGA	266
272	TTCTTCATAGTCTCTTCGTCGGA	250
224	TTCTTCATAGTCTCTTCGTCGGA	202
224	TTCTTCATAGTCTCTTCGTCGGA	202
417	CTACGGTGTCTTGCAGACGATA	396
688	GGACATCGGCAGTATGTACCA	668
473	GGACATCGGCAGTATGTACCA	453
206	TTGGCGACATCGGATAGCAT	187
832	GCACGAGAAGATCAGACCACTC	811
1597	AAGGTAGCGGAGGTGTTGGC	1578
628	CTATCACGGTGGCGGTGCTT	609
3712	ACGCTTCATTACAGAACAATTCC	3690
1786	ACGCTTCATTACAGAACAATTCC	1764
2182	ACGCTTCATTACAGAACAATTCC	2160
2839	ACGCTTCATTACAGAACAATTCC	2817
3856	ACGCTTCATTACAGAACAATTCC	3834
517	TGGCCGACGAGTAGGAGGTT	498
634	TGGCCGACGAGTAGGAGGTT	615
1293	ATACATCGGCTCCAGGCTTC	1274
377	ATACATCGGCTCCAGGCTTC	358
908	ATACATCGGCTCCAGGCTTC	889
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221	CATCCTCTGAATCATCATCCG	201
449	GCATTGTGCGTTCAGTGACTT	429
293	CCATTATCCGTGCAATCGTG	274
119	TTGTTGAGATCAATGTTGCGTGTT	96
603	GTACCTCCGTTACGCTTGTTG	583

1891	AATGAACGTGTTGGAGGCAA	1872
1137	CGAAGTGAACGCCATAACCA	1118
939	ATGATGGACGGTGTGGTGTT	920
589	CGCTGCTCCATCTCACTGTA	570
1322	ATGATGATGAACAGGCGTGA	1303
1214	ATGAGTGCGATGACGGAGAC	1195
1133	GCAACAATGAGTCCGCTGAT	1114
1093	TTGATGAGCACTGATAGCCTGA	1072
2315	TGATCGTATCTCTGTCTGTTCAAA	2291
699	GACGGTCTCGCTGTTGATGT	680
1378	AATTCACCTTCGCCTCCAAGTG	1358
372	ATGCTGCTTCCATGATCTCG	353
343	CTAGCACGATGGAGTATTGGC	323
147	TTCCATTCTTCTCCGACGT	128
340	CACAGTAGGCGTGGTTGTCG	321
127	CATACACAACACTCACACTTCTCG	104
157	GCGTCTTATCAGAAGCAGCTACTG	134
213	TGAATCCATCGAACTCAAGGA	193
1086	TGCGTGGTAACTGCTCTTCG	1067
1112	TGATAGGCGGAAGGATGGCT	1093
985	CGGTGAATGGAGTGGTGAGC	966
1515	TTGAAGCATTGGTGGTGGCA	1496
2026	CGATTGAGCTGGAGGAGAGTT	2006
456	CGTCGCCTTCTTATGATGCT	437
76	CACACGATCATAGAGTGGCTTG	55
101	CACACGATCATAGAGTGGCTTG	80
760	CGGTAGGCACGAGTAGGTTG	741
133	CCAGGTACATGAGCATTCCAA	113
212	GTTGAGGATGATTGCGTTGG	193
1004	GCAAGGATGCTCTGCTGGTT	985
339	TAATCCACCAGCAGGTTCCA	320
149	CTTGCAATTGGACTTCTAGACCTT	126
259	CGATGGATGGCTTGACTGGA	240
526	GGATACGGTAGAAGTGGTGACG	505
884	TTGATTGCGACGACTTGAAG	865
892	TTGATTGCGACGACTTGAAG	873
247	TGTCCTTGAGGTCGATGGAT	228
255	TGTCCTTGAGGTCGATGGAT	236
421	TTGATTGCGACGACTTGAAG	402
376	GCCAGCAGCTATGGAATATGC	356
215	GCAACTTCACGTCAAGACCAT	195
153	TGAGGAGGTAGTTGACGTGGAG	132
1029	TGGATATCAGCATGGAAGTGG	1009
1122	AGCAGACAGTAACAGTGGAGCA	1101

101	AAGCATCCATACGAGTCACATG	80
2318	GTCTAATCCGATCCGATCAAGAGTT	2294
971	TCATTGTTTCGTTCTTCTTCGGA	950
222	AGTTCCGGAATGCAGACCGT	203
3632	CCATCCTTGAATCTTGAACCAT	3611
151	GAATGGTTCGACGTCGGATT	132
578	GATATCGAGTGCTGGCCGT	559
405	GGTAGGTGAGGTCCGAGAGG	386
383	GGTAGGTGAGGTCCGAGAGG	364
1536	ACACTTGATTTCGGTTGGCAT	1517
833	AGGCAGGAACCTGTGCCATT	814
152	CAGAGCCACTTGCTCCTTGTG	132
933	TCCAACCTTCTTCCATCATTCG	913
165	AAGATCCTCTTCGTAGATTGCTAGAC	140
122	AAGATCCTCTTCGTAGATTGCTAGAC	97
544	GAATTGCAGAGATCCATGTGG	524
640	GATTCTTCGCACGCTTGTTAG	620
691	GATTCTTCGCACGCTTGTTAG	671
551	CGTATTGCTTGGCTCGTGAA	532
628	CGTATTGCTTGGCTCGTGAA	609
498	TGACGTTGGCAGTTGGATTG	479
630	GTGTTCCAGCCTCCTGTGAT	611
189	CTGCGACGAGCCACTACGAC	170
200	GGCACTAAGAGAGCAGATGATGG	178
409	CGTAGACGTTGTAGGAGGTTGAG	387
294	GCGACTGTGGAAGAATGTGC	275
99	GCTCTTCTCGTGGCTAATGTGC	78
318	TCGTCTCTCCAACACACACAA	298
318	TCGTCTCTCCAACACACACAA	298
318	TCGTCTCTCCAACACACACAA	298
1722	TTGACGGCTTCTGTGTTGTTT	1702
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553	TCAGTTGAGGCGGTGGAGTC	534
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811	GCAACAGCAGCATCTCTTCG	792
134	CCTGGCGGAGACACATCACT	115
660	GACACGGTTACTAGAACTGAATACGA	635
423	GTAGGCGGCGTCAATGTTCTC	403
123	ACGCGAATTCTCACGATGTC	104
294	AAGTTCGTCCAGATCCGTGA	275
749	GAAGATTGTGAGCAGAAGGCA	729
773	TTGAAGTGCTGTCAAGTTGGC	754
1239	CCACTCGATGAATGTAATCGTCGA	1216
264	GACAATATCCAAGCGAGCAATC	243

264	GACAATATCCAAGCGAGCAATC	243
382	CGTTGATACTGTACGTGTGCAGA	360
678	GACAATATCCAAGCGAGCAATC	657
383	TCCTCTCCAATCGTCGTGT	364
143	GATCCTTGTTGCTGGTTGTTG	123
117	CGCTGATTGTTGGAACAGTGG	97
487	CGTCGTCTCATCGGTACAGTCG	466
487	CGTCGTCTCATCGGTACAGTCG	466
110	TTCCTTGAGGTTCCGCATT	91
416	CACGGAGACGGTTCTTCTTG	397
442	GGTGATGGTGTTGACTCCGT	423
775	ACGCTCGCTGAAGTTGTTGT	756
567	CGAAGAGCGAACAGAGAAGGATT	545
392	TCTTCTCCTTCTCCTACTGTCGT	369
128	CGCATTCTACGAAGAATAAGGAA	106
852	GCCTTCTCGTCAATGCTCAC	833
873	GCCTTCTCGTCAATGCTCAC	854
882	GCCTTCTCGTCAATGCTCAC	863
721	GCCTTCTCGTCAATGCTCAC	702
782	GCCTTCTCGTCAATGCTCAC	763
880	TGGATGTTGGTGTTGGATGG	861
785	ATTCCACATTCTCCGACAGC	766
779	ATTCCACATTCTCCGACAGC	760
833	GAGGAGGATCGTTCATCGTAGT	812
1044	ATAGGTGGCGAGGAAGGCAA	1025
1442	GAGTCGGTAGTATCGGTTGTT	1421
473	GGCCGCAATATTCTTCTCA	454
442	GCTCCAAGGCAATGTGAATG	423
234	AGGAGCATAACGGCAGGTCTT	215
156	CCAGGTCCTTCGGAGTACAGG	136
1733	TCGGCTTGATACTCGTGGA	1714
100	CTGTTGTCGTGGAAGTTGCG	81
566	GTCCTGTTCAAGGTATTCTGTG	544
221	GGATTCTGGTGAGTTGGAGGT	201
779	AATGGAGCACGACGACACTGA	759
797	AATGGAGCACGACGACACTGA	777
791	AATGGAGCACGACGACACTGA	771
787	AATGGAGCACGACGACACTGA	767
1011	GTAGTAGTCTCCGTGTTTCGTAGCG	988
1029	GTAGTAGTCTCCGTGTTTCGTAGCG	1006
1023	GTAGTAGTCTCCGTGTTTCGTAGCG	1000
976	CGTCTCGGCGTCTATCACTGG	956
599	CGTCTCGGCGTCTATCACTGG	579
616	GGTGTAGGAAGGAGATGTTGGC	595

392	GTTGGTGTGGTCGTCGGTTG	373
488	TTATGTAAGAAAGTTGCCGCAGA	467
346	TTCTTCGAGCACGTCTGGAA	327
1016	CCTTGCCGATTGAGTCACTG	997
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165	CCTAATTGGACGTGGAGGACAC	144
176	GCACATTGAGTCGCTGCTTCT	156
1147	CGGATCTGTCAGTGATCTTGGC	1126
569	CATTGTGGACGCTACTCTTGC	549
955	GTGTCGCGGATGGATATGGT	936
444	TGAAGAAGCAAGTCGGCAGA	425
552	AATGAGGAGGCAGATGAAGATGA	530
219	CGTGCATTGCCTGGTAACGT	200
624	TATTACATTGACTATCGAGTGTTGAGC	598
958	TTGCAGATATCGGCTCCAAG	939
505	GTGCCGACATTGAAGCCATC	486
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316	GTGCTTCGACGATTGCTGAC	297
1031	TCTTCATCGTCGATCAGTAGATTG	1008
798	GAAGTAGTCCAGCAGAGCTGTGTT	775
946	GGTGTCCGATGCTATATTGGC	926
2363	GTCGGCTACAGGTTGATTGG	2344
209	ACATCTCCAGGTGCAGGCAT	190
196	CAGATGGAGCACGAGTACGC	177
1589	TCGCACTTCTGTCCAGCCAA	1570
1818	TCGCACTTCTGTCCAGCCAA	1799
1580	TCGCACTTCTGTCCAGCCAA	1561
319	CTCTGGAGTTGCGTGAGCGT	300
526	CCTGACACACCGATCCATCC	507
143	TCCACTGATCCGATTCTTGC	124
324	AGAGCTGGTGAATTCTTGATGG	303
134	AGCTTCTTCTTCGGCTGCTT	115
1942	TTCGTCATTATCATCGTCCACAA	1920
358	TTCGTCATTATCATCGTCCACAA	336
1940	TTCGTCATTATCATCGTCCACAA	1918
254	AGCATGAAGAATGTGGCGTT	235
2627	GGACACAAGAAGCATCGTGAA	2607
1233	GTTGAAGCAGCCAGAAGTCG	1214
882	GTTGAAGCAGCCAGAAGTCG	863
223	TCTGGAATCGGCACAGTTGG	204
658	CAGTCAGCACGGTCAGAGGT	639
238	ACCAGAGACATCTGTAGACGCA	217
345	GAGGTACGAGTCTGGTGGAACA	324
345	GAGGTACGAGTCTGGTGGAACA	324

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384 TTGAGTGGAAGAATCATAACCTGTGT	359
441 TTGAGTGGAAGAATCATAACCTGTGT	416
1952 CAGTCACCAGTTGCTCTTATCATCAC	1927
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185 TCCAATCCGTCTACTGTGAGG	165
198 CGTGGATTGGACAGCTTGCT	179
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822 TTCAGATCCTTCTCGATTGTGA	801
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353 CGTGGTCGAGTTGTTGGTACT	333
488 TGAATGGTAATGCGGCTGCT	469
240 GTTCCTCGGCAAGTCGTTCT	221
332 GAGGATAAGTGAGAAGAATTGGAGA	308
340 GAGGATAAGTGAGAAGAATTGGAGA	316
7031 TCAAGTTGGTAGATCGCATCAC	7010
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1289 AGGAACTGTTGCGGCTGATG	1270
121 GTGGCGCAACATCAAGTTCC	102

128	TGTCAATACACATAGAGAGGTGGTG	104
133	ACTGAGATACAGAACGATAGAGAGAAGA	106
122	CAGCAACCACAACGGATACTTC	101
207	CGCAATGTCTTCAGGTGTGTCTC	185
405	TTGAATACCGTGAGAACAGCCA	384
1388	GGTTCTCTCTGCCAGTCAATAGC	1366
1388	GGTTCTCTCTGCCAGTCAATAGC	1366
185	GGAGTGCATGTACCTGTAGTTGAAG	161
695	CAGTTGGAAGTAGCAGTTGGC	675
317	CCGTAACGTGTGAGCACTCTTGT	295
292	CCGTAACGTGTGAGCACTCTTGT	270
1568	TTCGGAGTATCGGCACAAGC	1549
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429	GCTTCTCCAAGTAGTTGACATACAGC	404
372	ATTCGGCTTCTCCATCAAA	353
333	ATTCTATACGATCTTCTGCCGATT	310
375	ATTCTATACGATCTTCTGCCGATT	352
908	AGGCGGTTAGGATGTAGAAGG	888
885	TTAGCGAGCGGATTAGCCAT	866
861	TTAGCGAGCGGATTAGCCAT	842
885	TTAGCGAGCGGATTAGCCAT	866
861	TTAGCGAGCGGATTAGCCAT	842
215	TGCTGACCTTCAGATTGTGGA	195
114	CGATTCAAGAGCAGCACGAG	95
799	CCTCGTGATCTCTGGCAACTTC	778
454	CCTCGTGATCTCTGGCAACTTC	433
205	GCGAGTATTGGATTGTGACGGT	184
355	GCGAGTATTGGATTGTGACGGT	334
121	GCGAGTATTGGATTGTGACGGT	100
242	TAGGTGAGGATGGATTCGGA	223
242	TAGGTGAGGATGGATTCGGA	223
230	TTGACAGACAACTGACAAGTAGCTT	206
449	AATTGCTCCAAGTAGAAGCCAA	428
226	GCATGTGTAGACAGCTACCTTGG	204
195	GCATGTGTAGACAGCTACCTTGG	173
360	GTGACAATCCGAACGAATGC	341
334	ACGATATAGAACAGCACGATGAGTA	310
366	TCTCCTTGGAATACTGCCGCTT	345
142	GGCAGACAACTGTGGTGTAGAGG	120
159	CCAAGATCTCCAGAATGTGAGC	138
424	CAACTTGAAGCCACAATGAGAA	403
938	ATCCATCCTTCAAGTTGTTAGGTT	915
1098	AATCCGAGAAGGAATCCGATGA	1077
1369	AAGATAGAATGTTAGAATCAGGAATCG	1343

215	GCTCCAACCACTCGTCCTACTG	194
287	GCTCCAACCACTCGTCCTACTG	266
167	GCTCCAACCACTCGTCCTACTG	146
1146	TGTCTCGACTGCATGTATAGAGTTC	1122
1460	GTTGGAGTCGGATCACGGAT	1441
1598	GTTGGAGTCGGATCACGGAT	1579
845	ATCCAGCGGTTTCGTTACAAG	826
1043	TGAGATGAAGGAGGAACGATTG	1022
1043	TGAGATGAAGGAGGAACGATTG	1022
624	TGAGATGAAGGAGGAACGATTG	603
1550	GCTGGCTGGTGTGTTGCTG	1531
2366	TCTATGGATGGTGCTATGAATGC	2344
2026	TCTATGGATGGTGCTATGAATGC	2004
2025	TCTATGGATGGTGCTATGAATGC	2003
617	TTGTAGTTGGCTTCTACCATCACTT	593
129	CGACCTTCTATCCATCCTCCGT	108
644	CGAGTGGCTACGGCTGAGGT	625
496	CGAGTGGCTACGGCTGAGGT	477
496	CGAGTGGCTACGGCTGAGGT	477
280	TCCTTCGCTGTCACGGAAC	261
997	TCACACGCATCGCTTCTTCC	978
473	CGAGTGGCTACGGCTGAGGT	454
125	CGAGTGGCTACGGCTGAGGT	106
132	TGACGAGATAGTGTGGAGGACTGA	109
174	CCGTCCTCCTACTTCTCATCG	154
264	CGCTCTTCTTGGCATTACGA	245
147	CTGCCGCTACTACTACTCCTACA	122
800	CCATCAACTTCCTTCGTCCA	781
330	CGGTCAGAGTTCAGGCAAGG	311
318	TACACTTCTGCCACCGACCA	299
874	CCAAGTTGACAATAACCGGATGA	852
1327	CGTACATTACCACATCATCGCTAGTCTT	1300
2865	TTCAACACTTCGGCAACTACC	2845
306	ATCAGCGACTTCAGCGACGA	287
3119	CCGTCATCATACAACCACCAA	3099
2178	CCGTCATCATACAACCACCAA	2158
1133	CCGTCATCATACAACCACCAA	1113
3047	CCGTCATCATACAACCACCAA	3027
3194	CCGTCATCATACAACCACCAA	3174
3053	CCGTCATCATACAACCACCAA	3033
282	GAGCATAACTCTGGTAGCGGTT	261
1669	CGGTTAGAAGAGATATGTTAAGGCTAG	1643
942	AGGACTTCCGAGGCAACGAG	923
180	GCCGATGAATGAGATGAGAAGA	159

1233	CGCTTGAGGCTCTGTGGATT	1214
954	CGCTTGAGGCTCTGTGGATT	935
2744	GGACTCTGCGTAGATGTGCTC	2724
434	TCCGTATCCGAGTTGTTCCG	415
472	GCTCTCGCTTAATTGGCACAA	452
324	TCTGAGAGATTGTGCCACCA	305
316	AGAGCCAAGGCGTGAAGATC	297
178	GCGGCGAATAGCACACACTC	159
381	GAGGAATGTTGAAGCTGTGGA	361
257	GTCAATGTTGGCGACGAAGC	238
447	ATGATGACGAGGAGGCTGCT	428
263	GCACACAGCTCTTCGTCAGTT	243
1329	ATGATGATGGCGGAGTTACG	1310
663	CAAGAACAGCGGAGGCAGAT	644
663	CAAGAACAGCGGAGGCAGAT	644
460	CAAGAACAGCGGAGGCAGAT	441
311	GAAGATGAAGCTTCGAGCAGTT	290
851	TGAAGATTGCTCACAAGCGAAT	830
140	AAGGCAGATGGCTGAGATGG	121
376	CTTGTTGGAGAGCAGTGGCA	357
300	AGAGCATTGTCCATGAGCAGA	280
129	AATCAATATGATAATAAGCCAAGCG	105
549	CAGATCATCGACCGTTCTCAT	529
549	CAGATCATCGACCGTTCTCAT	529
1039	TGTCGAGCTTCTCCTGTGTTT	1019
372	ACGCATGGAGTTGGTGGATC	353
113	ACGCATGGAGTTGGTGGATC	94
818	GCGACCTCCAGTTGATAGTTCT	797
837	GCGACCTCCAGTTGATAGTTCT	816
141	CATCACGTCAGGAGTGAGGTT	121
2705	TGCTCACGGAAGAAGAATAGGA	2684
2747	TGCTCACGGAAGAAGAATAGGA	2726
2576	TGCTCACGGAAGAAGAATAGGA	2555
1061	CGCAGCCAGTGTCAGTAACCA	1041
148	GTGAATCGGCCAGAATGCTT	129
154	CGCAGCCAGTGTCAGTAACCA	134
1753	GATGTCCAGTATATTGATCGACCATCT	1727
195	TGTTGAAGTTCGTGGATGCG	176
1223	AGCATTAGGATAATCCAGCCGTT	1201
511	AGCATTAGGATAATCCAGCCGTT	489
152	CTTCTCGCCGTTTCGTTCTTC	133
203	CTTCTCGCCGTTTCGTTCTTC	184
152	CTTCTCGCCGTTTCGTTCTTC	133
203	CTTCTCGCCGTTTCGTTCTTC	184

392	GCGGCGACTGGTATGAGAAC	373
220	GCGGCGACTGGTATGAGAAC	201
838	TCGTAATGAACGGTCTGATGAAC	816
1305	TCTGTGGAGTATCTATTCGGCTAA	1282
1115	TTGTCACGTGGCTCCAGGTA	1096
94	CGGTGGAGGATGAGGTCGTC	75
142	CGTCGGTGGAGGATGAGGTC	123
875	GCTTCATCTGGATTGATATGATGTGAT	849
1171	CTACGACGAGCGGAACAGAC	1152
1171	CTACGACGAGCGGAACAGAC	1152
798	GAGCCGTCCAGATGATGAGT	779
477	GAGCCGTCCAGATGATGAGT	458
808	GAGCGGAGATACGGACGGAT	789
345	TTGCTGTGGTCGTCTCGGAA	326
345	TTGCTGTGGTCGTCTCGGAA	326
474	TTGCTGTGGTCGTCTCGGAA	455
235	ATCAATCAATATCATCATCATCA	210
329	CGCAAGTGGATCTTGAATGG	310
629	CGCAAGTGGATCTTGAATGG	610
336	GAATCGTTCCTGTTGAGATTGC	315
503	GAATCGTTCCTGTTGAGATTGC	482
365	GAATCGTTCCTGTTGAGATTGC	344
466	AACAGCGTCTCGAACAGCTC	447
219	AACAGCGTCTCGAACAGCTC	200
280	TCTGGTGGAGATGTTAAGATTAGAGA	255
1105	TGATGAGGTCAGGTGTATGCC	1085
257	TCCGTGTCCATAACCTGTGC	238
268	GATGAGTTGGCTCCAATTCCTC	247
200	GATGAGTTGGCTCCAATTCCTC	179
890	GGAGGAAGAAGAGCCATTGTC	870
300	GGAGGAAGAAGAGCCATTGTC	280
715	GTGTGGTGACGACGAAGTGG	696
1058	GATTGTAATGCCGTAGACTTCGC	1036
917	GAGGAGTTGTTGTCACGGAATC	896
938	GAGGAGTTGTTGTCACGGAATC	917
861	CAGATTCTGATAGATGCTTCTGTGAT	836
506	GATCGCTGATGTTCTTATTCACG	484
506	GATCGCTGATGTTCTTATTCACG	484
1445	ACTGGCTGTCTCCGAGGTG	1426
1465	ACTGGCTGTCTCCGAGGTG	1446
819	GATTGCTGGTGTGGTCCTG	800
269	GCTGGATGACTGGCTGACAC	250
134	TCGGCTTGAGACGGTTCTTCT	114
147	GCAACAGTAGCGACGAAGACC	127

252	CCTGCTTGATACGCATGACG	233
276	CCTGCTTGATACGCATGACG	257
437	GATTGTTCTGATTGTTGAGGAGCA	414
437	GATTGTTCTGATTGTTGAGGAGCA	414
258	CGGAAGAGACAGAAAGTGATGAGG	236
270	CGGAAGAGACAGAAAGTGATGAGG	248
214	GGCAGTAGTGTTGGTTCTTGTTG	192
202	TTAACGATGAGTGGAGTCTCTGG	180
195	GGCAGTAGTGTTGGTTCTTGTTG	173
584	CTTGCTGTGCGACTTGCTTC	565
545	CCTTATTCTGCTGACTGATTGCG	523
227	GGTGGAACGAGTTGAGCAGT	208
459	TCTGCTCCATAATCCTTGCC	440
458	TCTGCTCCATAATCCTTGCC	439
770	AGGATTGTCGGAACCAGCCA	751
1181	AGGATTGTCGGAACCAGCCA	1162
423	CCTTGACAGGACTTGGTGTGT	403
206	GGAACCATCAGACAGGATGTG	186
170	AATGTGAGCAAGCCAACCGT	151
145	GGTGTACCTTGGCACGTCAA	126
286	ATGTGAGCAAGCCAGCCGTA	267
414	ATCGACGAGAAGCACGACCT	395
430	GACCATCCTCGAAGCATTCC	411
485	GCAGGATCACAAGTCAGAACG	465
417	AGTTGATGTCCTCTGTGCGAA	397
533	CGCTGGCAATCCAGATGATAC	513
85	CGATGATGTCACGGAAGCGA	66
1115	GTGAAGCAATGACGGTGGAT	1096
884	GTGAAGCAATGACGGTGGAT	865
274	ATCTCATTCGGCATGTCACC	255
287	ATCTCATTCGGCATGTCACC	268
119	AGTTCCATTGGCATGTCCGA	100
397	AATTGGCAATGTTCAGTTCGATT	375
221	ATAGTGGCGGTCAACGGATT	202
495	CGTCTTGAAGTTCCAGTCCAG	475
536	TGATAGCACCTGATGGCGAA	517
1188	TTGGCGAGAAGTGACAGAGAT	1168
1140	TTGGCGAGAAGTGACAGAGAT	1120
951	TGTGTGGAGAGTGAGCGAATC	931
936	TTCATTGAGTGCGGCGATTG	917
304	CGTCGTCTGGATTGTTGAGC	285
147	GTGTGTCTTGCGTGGCTGAC	128
212	TTAGCTTCACCAGGCACTGC	193
254	TGACACGATCACAAGTTGACG	234

361	AGACATCTTCGTTAGCGGAGAA	340
585	TGTTACAGCCGACGTACAGGT	565
300	CACAAGGTCTCGGATACCAGTT	279
1024	CAGAGTCGGTGATGATAATGTTGT	1001
1035	CAGAGTCGGTGATGATAATGTTGT	1012
1419	TCTTCCACCACATCCATCGC	1400
584	AGCGACGGTCCATTATACAGAA	563
123	GGCCTCTCATCAGACACGCT	104
631	GAAGATACTCGTTCGGAGCATT	610
139	TGTCATCTGCTCTCCAATACGAA	117
855	ACTCTGGTTCCTCGGTGGTC	836
123	TGACTGAACAGCATCAGCCAT	103
1048	GAGTGCAGAATGCATGTCAATC	1027
360	GACGTCGATAGTGTCGTCGAA	340
304	TTCCAGCCATAGCGACCACT	285
265	TCCGATAATTCGACACTTCCA	245
141	CGGACGGAACCTCTACAGAGA	121
620	CGTTACAGAATGTGGCAGGATT	599
172	CGGAAGCAGAAGCCACAGTA	153
173	TGAAGAACGGAAGCAGAAGC	154
172	CGGAAGCAGAAGCCACAGTA	153
97	GCTCATCAACTTCATCATCATCA	75
191	GCCAGTTCACCAACATTCTCTG	170
280	CGACACGGAGAGAACGTAGTC	260
144	CAGTGATTGGTTGCCGAGAA	125
174	GCTGTGATTCCATCGCTGCT	155
174	GCTGTGATTCCATCGCTGCT	155
174	GCTGTGATTCCATCGCTGCT	155
512	GCATTCCGAGCATGTTCCAG	493
227	CAACTGCTCCGCCAAGGAAG	208
292	GGATAGGAGACTGTTCTTCTTCTTC	266
136	CGTAATCTAATGTATACCACCTGACAA	110
466	CGTTCAGTACGAGACAACCATCG	446
233	GCATCCTTCATTAGTGGCTCA	213
910	ATAGGTGACGAGATGCTGAACA	889
910	ATAGGTGACGAGATGCTGAACA	889
125	GGTGACACATACATCTGCTGAC	103
4212	GAGGTGTGATGGAGTTGAAGTGC	4190
1234	AATAGTTCCAGAGAGCAGAGTTCCAC	1209
1411	AATAGTTCCAGAGAGCAGAGTTCCAC	1386
221	GATCACGCAGAGCTTGGAAT	202
293	CCAAGTGTGAGCAAGTATCCTGA	271
201	GAATATAATTGCACGAAGAGCGATC	177
689	TGGTGAAGGTAGGAGCGACA	670

359	GTACATTGGACTCGCCACGT	340
216	CGGCGAGAACATTGGACTGT	197
124	CCACTTCCGTTGTGGTGGTT	105
231	AGATTGGCGAGAACATCGGACT	210
256	GGCTGAGGTGGTGTGGAAC	237
486	TCTTGTCTCCTCTTCCTCTTCA	464
240	CCTTCTCATTCCGACTCGTTC	220
355	TGAGTGAGTCGTGGAGTCTTGG	334
169	CTCTTCTTCCGAGGTGGTGT	149
214	CAACGTCGTAGATCACATGGTCA	192
170	CAACGTCGTAGATCACATGGTCA	148
182	TGCTCCATATCTCCACCGAA	163
290	GATGAGACGGAGGTAGAGGAGACG	267
182	TGCTCCATATCTCCACCGAA	163
194	TGCTGGAAGCTGCTTGAGTC	175
184	TGCTGGAAGCTGCTTGAGTC	165
209	ACTGGCGAGAACATTGGACTA	189
127	CGCTGACCATGTTGTTTACA	108
366	AATCCGTAGATAGTGATAGTCATAGGAA	339
201	CGGACTCAAGTAGCGTGGA	182
120	TGAGCTCGAGCAGTTGGATG	101
732	TTATCCGAGCGATGCGTAGT	713
517	AATCGAAGTAGCAATAGCCGTT	496
550	GTTGAGGCGGTATTGTGGAA	531
2429	CGGTTGATGAAGAAGTTGGTGA	2408
2435	CGGTTGATGAAGAAGTTGGTGA	2414
218	AACTAGGATGACAGGTGTTCCGG	197
215	TGACGACCGATTGATGTGATAG	194
210	TACATCGGATTATCAATATGTGGTACT	184
161	GGCTTCATCTCATCGTCTCG	142
362	TCTTCTGGTGGAGGTGGTTC	343
906	ATACTGTTGTGGAGACGAGCATC	884
226	ATACTGTTGTGGAGACGAGCATC	204
176	TTCCATCCATTACCGCCATT	157
434	ATTGCCTTGCTCTGTTGCCA	415
224	TCGTATCGTGACGGCGAGTT	205
696	CACATTCGGCAGCTCCAACA	677
909	TGATGTGTAGATTGGCGTTGTG	888
201	TGAGGAGTTGACTGTGTGAGGA	180
353	GCATACTGTTGACGGTTGGC	334
518	GCATACTGTTGACGGTTGGC	499
448	GCATACTGTTGACGGTTGGC	429
463	GCATACTGTTGACGGTTGGC	444
489	GCATACTGTTGACGGTTGGC	470

447	GCATACTGTTGACGGTTGGC	428
411	GCATACTGTTGACGGTTGGC	392
214	CCTTGTAAGTGAATCGAATGAAG	192
437	GAGGAATAAGCGGCGGTAGA	418
182	GTGAACTTGCCAACCATCTTCT	161
799	AACTTGCGGCTCTGAATCCA	780
93	GCGACTTCCTTCTCCGTGTA	74
300	GAAGGACAATCTGTCTGAGTCTGA	277
667	GAACAACCATCGACGAGAGTGTC	645
205	CCGATAATCCGACGAGTTGA	186
263	CGAGACCGTAGATACCGATGA	243
125	AGCCATCGCAGGAGAGCACT	106
473	TGTTGTGGCTGGATTACGAA	454
2371	GATGGACTGGAATGTGTGGAG	2351
1400	CGTAGTAACCGCAAGTCTCGTC	1379
1429	GATGGACTGGAATGTGTGGAG	1409
134	ATGCCAAGCCACACACCGTA	115
1166	ATAATCTCGCAACGGAGCCAT	1146
345	CCGAATCTGCGAGAATTGCA	326
185	CCACACGACAAGCGAGTCTT	166
671	CGATTGCCATTGCGTAGAGA	652
692	CGATTGCCATTGCGTAGAGA	673
394	CGATTGCCATTGCGTAGAGA	375
415	CGATTGCCATTGCGTAGAGA	396
4002	ATGGCGATGAGAACGGAGAC	3983
1526	TGAACGATATGGTTGAGTTGGTG	1504
2166	TTCTTGACATCTTCATAGTTGAGCAC	2141
142	CGAATCCTCGGTGTAGAAGCG	122
537	TGGAGCATACTTGATAGCACAGG	515
251	CCGTTCAAGCAGCGTAGAGG	232
190	TTGACAGATGGACGAGACACC	170
186	TTGACAGATGGACGAGACACC	166
166	TGGAGCACTGACGAATGTTG	147
170	GAACATTGACGGATGATGCTT	150
861	ACCTCCATGAAGTGCCATTG	842
279	GCTGATGTAGTGTGTCTGAATGCTT	254
347	GTTGGTGGTCTCCTCGTGTT	328
460	TGACAATAGGATCTGTGACAACCG	437
626	TTATTATGGCGAGGAGAGTGTAGA	603
1332	CCTGAGCCAAGTAGTAGCCAACC	1310
308	GTTGTCGCCTTGCCACTCAC	289
106	GCTGTCATCTCCTCCTTGGCT	86
90	GCTGTCATCTCCTCCTTGGCT	70
248	CTTAATATACTCATTGGTCTCTCCGA	223

90	GCTGTCATCTCCTCCTTGGCT	70
88	GCTGTCATCTCCTCCTTGGCT	68
91	GCTGTCATCTCCTCCTTGGCT	71
87	GCGGCTGTCATCTCCTCCTT	68
104	GCTGTCATCTCCTCCTTGGCT	84
88	ATGGATTCTGGCGAGAGACC	69
89	GCTGTCATCTCCTCCTTGGCT	69
109	GATGGATTCTGGCGAGAGACC	89
269	TCGATTGTTAGTGAGGATTCGTT	247
693	TGAGATATTGAAGCTAATAGAGATGTGC	666
184	TCGGATCTTCTATGCACTGACC	163
201	GATTGGCGTAGTTGACTTCGGA	180
201	GATTGGCGTAGTTGACTTCGGA	180
310	TGAACGTGGATGTTAGGAGAGG	289
136	CTATGTAGCTGATTGGTGGATGG	114
138	CTTGTGCTGCTCGCTCAACA	119
1223	TGACGACGAAGAGCTGCAAT	1204
106	GAACACGGTTGAACGAGTAGC	86
697	AACGAGTTAATAGGAAGTTGTGGTCT	672
597	AACGAGTTAATAGGAAGTTGTGGTCT	572
544	AACGAGTTAATAGGAAGTTGTGGTCT	519
747	AACGAGTTAATAGGAAGTTGTGGTCT	722
172	CTCGTCGTTGTCTGGCGTTG	153
687	TCGCAGAGTTCGGATTCGTG	668
236	CATTCCAATATTGCATCCTGTCT	214
156	CGGATGACGTAGATGACTCAGC	135
159	GACAGCACCGAATCCTCCTT	140
818	TTGGAATGAATGGAGGCTGT	799
539	GCAAGGTTATACGATTGGTGGA	518
308	TCGAATCCGGCTACAACATG	289
214	TTGCTTGTCCGATTCCTGAT	195
1131	CGAGATGTTGTACTCTTCTTGATG	1107
1111	CGAGATCGAGTCCTCCACAA	1092
996	GGTGTGTATGTTCTGTTAGGTATCG	971
323	GGTGTGTATGTTCTGTTAGGTATCG	298
1288	GAATAGCTCGACCAATTCCAAGA	1266
340	ATATCCGCCGTGAGCCGTAC	321
787	GCGGTGAATATATCCAAGCG	768
170	CCGTAAAGTCCAAGATGAAGAAGT	147
515	TTGAACTCGCTTCCGTGCTC	496
515	GATTGCGTGATGTCCTGAGC	496
1058	CTCCAGTACGTGGCGTCTGC	1039
1064	CTCCAGTACGTGGCGTCTGC	1045
958	CTCCAGTACGTGGCGTCTGC	939

833	CTCCAGTACGTGGCGTCTGC	814
333	CCGTTGGAGCTGGTTCTTCT	314
318	GGATCGAATTCAGTTCCACTCC	297
364	ACAGCGTCGATTCTTCTCC	345
681	GGAGAAGGTGGTGAGAGGCT	662
515	CAGAACGATTATATGTTGGCTTATGAAG	488
471	CAGAACGATTATATGTTGGCTTATGAAG	444
484	TGAGCACAAGTGCCTCCATT	465
528	TGATAGGCGTTCGGATATTGC	508
158	GCGTATACACATTGCGTATCAGA	136
382	GCTTCATTCAGGTCTTCGTCTT	361
433	TTCCTGTTGAGAGATTCGCTACG	411
499	GATTGTATCCATCAGAAGGTTGC	477
592	TTGACAAGATCCTTGAATTGAGC	570
599	GAGATGACCGTTGCGATGAC	580
414	GAAGTTCTTGTAGGAGAGCATAGTCTT	388
331	CGGCTGTCGTGATGTTGTTTC	312
967	AAGGACGAGAACGACGCCAT	948
967	AAGGACGAGAACGACGCCAT	948
967	AAGGACGAGAACGACGCCAT	948
2017	GGTCTCGTGCTTCTTGCTCA	1998
143	CAATATTCTATCTTCGATGATCACCAC	117
136	TGAAGCAGCACACGATGACA	117
2696	TCGTCGGAATACTCGGTGATGA	2675
194	TTCGCCTCGTTGGTAGTGTC	175
218	TTCGCCTCGTTGGTAGTGTC	199
1613	AATTGTTCCAGTGGAGTAGCGT	1592
334	CGTCATTATTGAGCCATTCCA	314
656	CGCTGGACACTGTAGATGATGG	635
132	GGCCTAATCCTATTCTTAAGCCTAA	108
523	TGCGTTCCATTAGCGGTAGA	504
1092	CCTCGTAGTCGGAATCATAGTCA	1070
519	GATAGTAGCCTTATCGCTTCTCTCG	495
475	TGTGTATCTCCTCATGGCTTGA	454
1374	GGTAAGAAGAGTGATGAATGTGTTGA	1349
1510	GGTAAGAAGAGTGATGAATGTGTTGA	1485
1041	GGTAAGAAGAGTGATGAATGTGTTGA	1016
1510	GGTAAGAAGAGTGATGAATGTGTTGA	1485
1041	GGTAAGAAGAGTGATGAATGTGTTGA	1016
1041	GGTAAGAAGAGTGATGAATGTGTTGA	1016
124	AATTAACCTTCTGAAGCGTTGTCG	102
213	CCACCGTATCCACCATAATAACCA	190
352	TCCAGGCAGTAGAAGCTGTGTT	331
2439	GAATCCGTCAATGTCTTGGC	2420

149	ACGAGAATTCCGTCGATTCC	130
965	AGTTGGCTCCGTCGATTCTTC	945
880	AGTTGGCTCCGTCGATTCTTC	860
891	AGTTGGCTCCGTCGATTCTTC	871
1484	CAGATGAACCATCGCTCCAT	1465
1484	CAGATGAACCATCGCTCCAT	1465
520	CAGGTCTCCACAGAGTTACAGCAG	497
356	CGAATGTTGGAGACTGTGGTG	336
1023	TGACGTGATGTTGAGAGGA	1004
285	TCTCCTGTCGCCACTCTTCC	266
2341	CACCGCCAACTATTGATTCTG	2322
1198	CACCGCCAACTATTGATTCTG	1179
251	GTGTCCTCCGTTTCATCTTGG	232
393	TCCAGCAGAAGTCGCTCACT	374
578	AGCTCATCAGGCACACAGACT	558
112	GGCGACGACTACTTGTTGAGA	92
574	CAGTCTCTCGTCGGTGAATCTC	553
574	CAGTCTCTCGTCGGTGAATCTC	553
938	TTACTGTAATCCAGATTCTGTGTTGC	913
307	ATGGTGGTGGTGGACCTCGT	288
811	CCGACGAATTGCAGAGAGAA	792
817	CCGACGAATTGCAGAGAGAA	798
277	TTGCTGATCTGACGGCAGAA	258
833	ATCCATCTCGTCAGAGTCTTCAG	811
842	TTCCGATGCTCCTTGCTT	823
237	ACATTGTTGAAGCCGACACG	218
237	ACATTGTTGAAGCCGACACG	218
127	TGGCGATGTGAGCAATGATG	108
201	TGATAGTCCAGGTAGGCTTCTCG	179
588	AGGAGAGATGCGAACACGAC	569
1072	CCATAGAGAAGACAGCGAGAGC	1051
876	TTGTTGGATAACTGCATTGAGGA	854
912	CCAGTCATAGGTGGCCTTGG	893
847	GCACTGATCCAGGAGGAACC	828
881	TCTCCGTCACCGTGTTCTC	862
651	TTCCAAGAGATGCCATTCCG	632
1111	CAACTATCACGCCAATGACG	1092
835	CAACTATCACGCCAATGACG	816
1187	GCCGTTGATTGGTTGAGGAT	1168
166	TGGCGATGTGAGCAATGATG	147
1019	GACTCCTCGTGACGCTGCTT	1000
143	ATACTGCCGCTCGAGTCCG	124
330	AATTAACGCCTCGCCATTCTG	311
604	TCCTCCGATGATACTTGCTGAA	583

672	GGTTGTTGAAGGAGTTGCTGA	652
1004	TTGTGTTGATGAATCTGTTGTGG	982
550	CAGATGGATTGGAGAGGAGTTC	529
147	GGCTTCGTTGGTAAGTGTGAGAG	125
136	GGCTTCGTTGGTAAGTGTGAGAG	114
189	TGGAAGTGGCAATTCTCGTAC	169
264	TCCGTCCAAGACCATCCATT	245
341	TGTGTGAGCCAATTGAGGAA	321
684	CATTGGTGGCGGAGTATCAG	665
657	CATTGGTGGCGGAGTATCAG	638
222	CATTGGTGGCGGAGTATCAG	203
106	CTTCAACTGCTGCGTCCATA	87
264	TTCTGTGATGCAGTTGGATCA	244
269	TCCAAGGAGCCGGATAACTC	250
627	AACTCGGTCCAAGCATCCTC	608
386	AACTCGGTCCAAGCATCCTC	367
386	AACTCGGTCCAAGCATCCTC	367
293	GTTGCTGCTGTTGTGGTTGG	274
209	GTTGCTGCTGTTGTGGTTGG	190
457	GGAGTAGATAATAAGGAATGGACGAGA	431
141	CGTCACACATAGGTAGTTATCATCTCTC	114
342	AGGTGTTGATAAGGTGACGGAA	321
141	GCAATTCTCGATGCAGGCAT	122
381	GGAGGAGATGGCTGTAGTGTG	360
564	GATGTCGTAATTGTCGTGGTGT	543
411	TGCTCCTCTACCTAACAACAATCG	388
495	AATGTTTCATAATTACATCACATATTGCA	468
360	TTCCAACATGATAGCAGTTAGAGC	337
902	TGAACACTTCACTTCCGATGTG	881
728	TCATTGCTGGTAGAGTGTGGATT	706
406	TGTCGGTTATTCGTTGAGGTG	386
514	AGTGGTCGCTGAACTCAAGTG	494
510	AGTGGTCGCTGAACTCAAGTG	490
249	CTCACTGCAGCGATGGAAGG	230
529	AGTGGTCGCTGAACTCAAGTG	509
1019	ACGGCTTCTTCAATACCTGCT	999
1762	GCTGCTTGTCGTCCATGATG	1743
1685	CCGATGAACGAGGTAAGGATT	1665
426	CTCAGGTCAGGAAGGCACTATG	405
5049	CTTGAGACGGATTAGCAGAGTGT	5027
386	TTCCGAGCATTGTCCAGTAGA	366
296	GCGATGAAGACTGCGGATAG	277
350	GCGATGAAGACTGCGGATAG	331
873	GTAGACGGCGAGAAGGTCGT	854

977	GTAGACGGCGAGAAGGTCGT	958
305	CATTGGCATAGGAACGACAGA	285
177	GCCTCGACGACAATACACTGT	157
477	CAAGTCCGAATCCTTAGCGA	458
419	GCCTCGACGACAATACACTGT	399
1320	TACGGTGAACGCTTACGGAA	1301
1262	TACGGTGAACGCTTACGGAA	1243
1320	TACGGTGAACGCTTACGGAA	1301
1262	TACGGTGAACGCTTACGGAA	1243
1320	TACGGTGAACGCTTACGGAA	1301
1262	TACGGTGAACGCTTACGGAA	1243
523	TGTCATCCGTGTAGAATCGCT	503
616	GTGTGGTGGTGGTGGTGGAT	597
815	GTGTGGTGGTGGTGGTGGAT	796
616	GTGTGGTGGTGGTGGTGGAT	597
815	GTGTGGTGGTGGTGGTGGAT	796
616	GTGTGGTGGTGGTGGTGGAT	597
815	GTGTGGTGGTGGTGGTGGAT	796
285	CTGCTCCAATAACGCCAACA	266
929	ACTTGAGCCATTGTTGAGCAG	909
823	GTGTCAGAACTTGCGTGTCTT	803
823	GTGTCAGAACTTGCGTGTCTT	803
498	TTCACGATCCTCTAATAAGAACTGG	474
329	CTTGTGTCGGTTCTTCGGAT	310
664	CAATCACAACTCCAGCGTCTC	644
992	AAGCAAGCCAGTAATGAACACA	971
981	AAGCAAGCCAGTAATGAACACA	960
990	AAGCAAGCCAGTAATGAACACA	969
984	AAGCAAGCCAGTAATGAACACA	963
93	AACGGAGCACGAGAAGCATT	74
256	TATTATCGCCAACGCTCACC	237
249	CACTTGTCCAGTTGAGTAGGCTT	227
232	TAGCGTAGGCGTCCAGTGAT	213
186	TAGCGTAGGCGTCCAGTGAT	167
773	GTCTTCGTGTCCTGGTTGGT	754
220	TTGCTCCTTCACCAAGTCCTG	201
184	TGCTCTCCAGTGCAGAGTCTC	164
107	AATGCTTGATTGTATCTCTCAGGTC	83
828	CTGGTGTGGACATCCGAGAA	808
193	AATTGTCCTTCTCCAAGATGCTT	171
220	ATAATGTGGAGTAGGTCTTGGCTT	197
2535	TCAGTACGACTATAGAAGTTGGTACACA	2508
1496	CTGCTGGTGGCTTCTGAGTC	1477
1207	CTGGCGTTGTACGGATGAAG	1188

311	GGTGACTTGAACGGACGGT	292
337	GGTGACTTGAACGGACGGT	318
2011	TTGTGATGCCTCTTCGCTGA	1992
2041	TTGTGATGCCTCTTCGCTGA	2022
1810	TTCTTCCTAATCTCCGCTCACC	1788
449	TTCTGGCTTCTCGCTAGACG	430
1265	ATCGTTGGAATCGGCAGCAC	1246
1261	GCGATTGATGAGACGAAGCG	1242
1261	GCGATTGATGAGACGAAGCG	1242
242	GGCGATTGATGAGACGAAGC	223
242	GGCGATTGATGAGACGAAGC	223
244	TGGAGACGTGATTGAGAATCGC	223
1189	TTGGCTTGGTGAGAGTGTGC	1170
682	TGAAGCAGATTATGACAATGGATTC	658
164	TCAGGCAGATCAAGATACATGTAGA	140
819	TGGATGCTCCAGAAGGACCA	800
819	TGGATGCTCCAGAAGGACCA	800
345	AAGCCTCGTCACATTCGTGT	326
594	AATCACCAACGAACTGTCTTCTTTC	569
826	TTGTGAGGAAGGCGGTAAGC	807
270	TCCACGTCATCTTGGCTGAA	251
913	AATGGAGGTGGAGGACAACG	894
1376	AACGACGTGACATGGCAATC	1357
573	ACCGCCAATAACGACGAGAC	554
567	ACCGCCAATAACGACGAGAC	548
149	CTGCTCTCGCTGCTCACAAGT	129
282	AATGTTCTCGTGAGCCTTGG	263
862	CCTGAATCTCCTCAGCACTTAGC	840
780	ACGAGAACTTGAACGACGGA	761
328	GAGTTGTGTTGGATAAGGATGTGTT	304
330	CCATTGCTGCATAGTTGAGTTC	309
1447	ATTGGCTCAACTCTTGGACAA	1427
434	TTGGCATGAATAGCAGCAGTT	414
238	CACAGGTACGTTGCGAGTAGTG	217
4571	GACGGCTTGAAGTCGGTTAG	4552
123	CACCAGGTAGACTGCACCGA	104
150	TTGATAATGATGATGAGCATAAGGA	126
281	TTGATAATGATGATGAGCATAAGGA	257
150	TTGATAATGATGATGAGCATAAGGA	126
498	AGGTGGAGCTTCAGGATCTTCA	477
152	CCGTCATGTTACCGTGTGGA	133
2055	TGAGCACGAGATGACAGGAA	2036
876	CCATTCGTGTTAGAGCATCGTG	855
221	TGCGTAGTCGTGGAGGAAGC	202

175	CTGGACAGTTACACGTAGAGGAGATTG	149
267	TTCTCTTCCGCGGCTACGTT	248
177	AACATCGTCAAGTTGCTCGTC	157
770	ATCTTCTTCCACGGTCTCTCG	750
770	ATCTTCTTCCACGGTCTCTCG	750
770	ATCTTCTTCCACGGTCTCTCG	750
726	ATCTTCTTCCACGGTCTCTCG	706
386	TGGAAGTAACGGAGGTTGTCTG	366
275	TCGGCATCTCTCTTGTGA	255
490	CAGCGTTACAATCACTTGCCTT	469
435	CGTATAGTTCGGCTCTCGGTCT	414
435	CGTATAGTTCGGCTCTCGGTCT	414
147	CAGTTGTTCAAGTGCTGGTTCA	126
170	TGAACAGTCGTATCTTGGCTTGG	148
134	CATCCGACTCCGACCTCCTT	115
273	GATGGAGAAGACGCTCGACA	254
175	GCATCATAGACATTGGAGCATTG	153
878	CCGTAGAGAGGAAGAATGTGGA	857
1424	TCAGCATGAGACGCAGAGAA	1405
937	TGGTTCGTGTGGTTCGTGATG	917
130	AGTGTGGAGCGTTGGTGAGC	111
89	TGGAGAGGAGCTTGGACGAC	70
916	CGAACGACGGCTTGAACATTC	896
916	CGAACGACGGCTTGAACATTC	896
1159	CCAATAGAACTCGTCGTCAGG	1139
980	GCAATACGATATTCGCCACAT	960
803	ACGGACAGAGCACGGAACAG	784
282	CATTGCCATCTGACTGTTGTTCTG	259
84	CATTGCCATCTGACTGTTGTTCTG	61
468	AGGTGGTGGAGGAGGTGGTA	449
468	AGGTGGTGGAGGAGGTGGTA	449
375	AGGTGGTGGAGGAGGTGGTA	356
886	TCATCATTCCATCCTCGTTCA	866
134	TTCCACGGTGAGCCTTCTATC	114
512	TTCTCGGCAGTCTTCTTGGC	493
510	TTCTCGGCAGTCTTCTTGGC	491
648	AATCGAATACTCCGTGCTCTTC	627
572	TGAATGATGAGATGTAGAATGGAGTC	547
123	ATTATGGTAGAATGAGACATGAATATCC	96
256	ATTATGGTAGAATGAGACATGAATATCC	229
267	CCGTTGTTATAGAGCATTGGTTGA	244
139	AGTGTATCAATTGCTGTCAACTGG	116
6112	TCTCCACCATTCACCATCT	6093
6253	TCTCCACCATTCACCATCT	6234

3301	TCTCCACCATTCACCATCT	3282
2695	TCTCCACCATTCACCATCT	2676
3340	TCTCCACCATTCACCATCT	3321
3481	TCTCCACCATTCACCATCT	3462
5557	TCTCCGATGATTGTTGTTCTCC	5536
3500	GTCTCAGTCTCATAATCTTGTTCTTCA	3474
1277	GGTGGAATAGGTGCTTGTGTAAC	1255
6091	TCTCCGATGATTGTTGTTCTCC	6070
3421	TCTCCGATGATTGTTGTTCTCC	3400
3460	TCTCCGATGATTGTTGTTCTCC	3439
6232	TCTCCGATGATTGTTGTTCTCC	6211
2341	TCTCCGATGATTGTTGTTCTCC	2320
2710	GCTGTGTGACTGGTGCTGGT	2691
3460	TCTCCGATGATTGTTGTTCTCC	3439
3262	TCTCCGATGATTGTTGTTCTCC	3241
814	CTCTCAGCCGTGATCTCAATC	794
814	CTCTCAGCCGTGATCTCAATC	794
1682	CTCTCAGCCGTGATCTCAATC	1662
406	TGACAGCAGGTTGAGGAGTTG	386
1365	ATTGGATGTCACTCGTTGTCAG	1344
929	TCGCATTGAAGAAGCATACTGA	908
841	AATAGAGGAAGTATGGATCATAACCG	816
414	ACTATTGTTACTGACCACTGCTTGATG	388
595	TTGTAGAGTCGGTGGTGGCT	576
174	CAACACATTCCACCACTCACTC	151
279	GAGGTGGATGATGTCGCAAT	260
155	GAGGTGGATGATGTCGCAAT	136
153	GAGGTGGATGATGTCGCAAT	134
1018	GGAAGCGAGAGTTGGATTAGTG	997
941	TCCAATGACAATCAATGCGT	922
681	AATCACGGAGAACGAGAGACC	661
730	TGGAGATCTTCTGGAGCATGTC	709
174	AGAGTCGGAATCCAGAAGTTGA	153
753	GAAGAAGAAGACACCGAGGAAGA	731
907	GTATTGATAGGTTACCGTAGAGTGGAC	881
580	GGACTTGTTGAAGAGTCAATCCA	558
336	TATTGGAAGGAAGACGAGCACA	315
206	GTGGCGGTGTCGTGAAGTAG	187
1104	TCCAGCAGCCACACACCAAG	1085
621	GGATAGTATGTGATATGGACGGTTGA	596
621	GGATAGTATGTGATATGGACGGTTGA	596
286	AAGGAGGCGATGAAGATGACT	266
453	AGCAGATAGGTGCCAGCAC	434
199	GGAATGCTTGCAGAACGAGAT	179

225	CGTATGTGTCCGTGTCATAGAGA	203
267	GAACTGCATAATCCAGATCACGAA	244
118	GCACATAGTTGTAGACCATAGGCA	95
240	CTAGATGATCGATATGATTGTGAGAAC	214
756	CTTGAGCAGGAACACCTGATCC	735
936	TGTGTTCTTGATTGGTCTGCTG	915
204	CCGTGCTTCATCCTCACTATCC	183
111	CCGTGCTTCATCCTCACTATCC	90
287	TGTTGCTGCAGAGGTAGGTG	268
229	CCGTGCTTCATCCTCACTATCC	208
294	TGTTGCTGCAGAGGTAGGTG	275
298	TGACTGCCAGTCCGTTGTGC	279
609	TGTTGCTGCAGAGGTAGGTG	590
1052	CATTCTGTCCATTCAATCCGT	1032
159	TTCTTCTGATTAGGAACATTGG	137
703	CGACTCATCTGGAACCTGTGACG	681
371	TTATGAAGCCACCGCTGAAC	352
1240	TTGTGCAGCTCCTGGCATAG	1221
206	CGGACACGATTGTGATGATG	187
102	CATCGGCAGAGTCACAGAGA	83
1028	TTGCGTGACTGACATCTGACC	1008
963	AGATTGCGGCGGAGAGTAGG	944
970	AGATTGCGGCGGAGAGTAGG	951
1010	AGATTGCGGCGGAGAGTAGG	991
1074	AGATTGCGGCGGAGAGTAGG	1055
963	AGATTGCGGCGGAGAGTAGG	944
1127	GACGGCAGTAGGAGGCAATG	1108
957	GTATGTTGAAGAGTCGCTTGAAGA	934
408	GTATGTTGAAGAGTCGCTTGAAGA	385
337	GCAACTCGTCGTGGATGATTCTC	315
957	GTATGTTGAAGAGTCGCTTGAAGA	934
408	GTATGTTGAAGAGTCGCTTGAAGA	385
151	GCAACTCGTCGTGGATGATTCTC	129
475	GGCGGTAATAGCAAGCGTAG	456
430	GGCGGTAATAGCAAGCGTAG	411
223	TGATTACTGGAACTGCGACGA	203
223	TGATTACTGGAACTGCGACGA	203
319	GTGGTGATGGTGGCGTTGTC	300
277	GTGGTGATGGTGGCGTTGTC	258
242	GTGGTGATGGTGGCGTTGTC	223
154	TTGTCAGTGGTTGCTCGTCTT	134
268	AGAAGAAGCAGCAGCAGCAA	249
724	GCGTTGCTGACATTGGAAGG	705
675	GCGTTGCTGACATTGGAAGG	656

505	CGGCACTAATCCAGTGGTTCC	485
246	GGACACGATCGAACGTCACTT	226
405	TGACACGACGATTCTGACTGA	385
801	TCACCAATCCTGTCGTCGTC	782
1037	CGTCGTTCACTTGAGAGCCT	1018
207	TGGTCTAGGCTCACAGTTCTTCC	185
898	ACAGTGAAGAGTTGGCGGTTA	878
411	TTCACCAGCGACACCTTCAG	392
3780	GGATGAATGGTAGAATGTGTGTGAGA	3755
1036	GGATGAATGGTAGAATGTGTGTGAGA	1011
960	GATATCCGACACAATTCAGACTCTC	936
866	GATATCCGACACAATTCAGACTCTC	842
943	GATATCCGACACAATTCAGACTCTC	919
866	GATATCCGACACAATTCAGACTCTC	842
835	AACAACATCCAACCATCACCA	815
460	ATTGATAGTCTTAGATGGTTCTGTGC	435
1150	CATGGCTCAGCTCAATATCCTC	1129
133	CCTGTACCAGGAAGAACTCGAT	112
668	GCCTTATTCTTCTTGAGCAGTGA	646
668	GCCTTATTCTTCTTGAGCAGTGA	646
223	CGAGACCGACACTTAGCGAA	204
1198	GATGTCCTCGGCGGTGATTC	1179
779	AACCTTCCTTCTGCATCCTGTAC	757
632	AGCCACCTTCGAGGATGATG	613
202	TGCTTGGCATTGTGGATAGC	183
222	TGCTTGGCATTGTGGATAGC	203
212	TGCTTGGCATTGTGGATAGC	193
194	TGCTTGGCATTGTGGATAGC	175
212	TGCTTGGCATTGTGGATAGC	193
4589	CCAGCAGAAGAATCCGTTGA	4570
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402	ACATACACGATTGGCGAACA	383
365	CACGACATGCACCATGTTGC	346
444	GTGGCAATGGACATACACAGAT	423
647	GAGAGCAGTCTTCTGAGCACAA	626
223	ACTATGGACGGTGCGGACTT	204
729	TAATCTCACGAACAACGGCAT	709
737	TAATCTCACGAACAACGGCAT	717
879	GAAGAAGATTCTCCGTCCAA	859
224	TGTACGAGAGCCACGTCGGA	205

1489	GACGATTCCAAGACTAACTACACCA	1465
119	CGATGGTTCCACTTGTCAAGA	99
295	AACGGTGTGCGAGAGAAGATAC	274
286	CACCTCCTTCTTCGTAATCGC	266
115	AACGGTGTGCGAGAGAAGATAC	94
1168	CACAGAAGAATCCGATGCGT	1149
556	CACAGAAGAATCCGATGCGT	537
318	CGACGAGGAAGACGAACGAG	299
394	TGATGGAAGGTCTGTGCGTT	375
261	TGATGGAAGGTCTGTGCGTT	242
296	CGACGAGGAAGACGAACGAG	277
533	CCGCATACACTTCTTCGTGACAA	511
296	CGACGAGGAAGACGAACGAG	277
143	TGATGGAAGGTCTGTGCGTT	124
277	CGACGAGGAAGACGAACGAG	258
301	GCAGGAGGAGGAACACGAAT	282
296	CGACGAGGAAGACGAACGAG	277
312	ATGTGAAGCCGAGCAGTGAG	293
2798	TTGTAGGAGGACGCTTGGAG	2779
1023	TTGTAGGAGGACGCTTGGAG	1004
373	CCTCACCACCATAGAGTTCACC	352
184	CCGTAGCCACCACCTCCATT	165
1176	GAGAGATTCAAGGCACCATTCATAG	1152
141	GCGTATGTGAATCGCATCGA	122
122	CGAATTGGAAGAGCATTGCC	103
137	AAGATAGTGGTGAATGAGGAGACC	114
434	TCCGCAACAGACAAGTAGCAA	414
833	TCCAGGTCCACTACTCGTTGA	813
1406	ATGCAGCAATGCCAAGAACT	1387
1406	ATGCAGCAATGCCAAGAACT	1387
1406	ATGCAGCAATGCCAAGAACT	1387
188	AGCCATACTGTCGGCGGAAC	169
369	TGCCACGTCTGCTGATGTTG	350
136	AACTTCCATCCTGCTCTTCACTT	114
156	AGTTGGATGGTTGCCAAGTG	137
2303	GCACTGAACGTCTGGAATGG	2284
406	CCGATTCCGAATTGAGTGTT	387
406	CCGATTCCGAATTGAGTGTT	387
374	CCGATTCCGAATTGAGTGTT	355
496	CACCATGCCATAGAATCCATC	476
388	GCAGCATCGGAACAGGAACT	369
1241	TCCATTCAGAAGTGGTAGGTAGTTG	1217
1344	TCCATTCAGAAGTGGTAGGTAGTTG	1320
1041	TCCATTCAGAAGTGGTAGGTAGTTG	1017

518	CCTCTTCGGACGCTAGTGGA	499
196	TGTCTTCACAATCGGCTGTCT	176
158	CAAGTCCATAGTCATGAAGAACAAGT	133
158	CAAGTCCATAGTCATGAAGAACAAGT	133
1512	ATGCTGTTCGTGTTGGCTGA	1493
1398	ATGCTGTTCGTGTTGGCTGA	1379
1071	ATGCTGTTCGTGTTGGCTGA	1052
1233	ATGCTGTTCGTGTTGGCTGA	1214
1932	CATCCGTTCCATTCCGAGAG	1913
1548	CATCCGTTCCATTCCGAGAG	1529
1681	CATCCGTTCCATTCCGAGAG	1662
1409	GCTTAATGATGGCATCGGAA	1390
1470	GCTTAATGATGGCATCGGAA	1451
231	CTGAGAATGCAGCAGTGATCG	211
1580	CGAAGTTGTTCTCGTTGCTCA	1560
1586	CGAAGTTGTTCTCGTTGCTCA	1566
1068	CATCCTCAGATTCGGTGTCAA	1048
135	TCTTGTCTGTGTTCTACGCTCCT	113
404	CTTCTGGCTCGGATTGCTTC	385
6074	GACACTTGCCATTCCGATTC	6055
195	TGATGACGTGCGACTGCTAT	176
124	GTCAGACAATGAAGGAGTGAGACC	101
250	CGGTCTCTCTTGCCTATTCA	229
149	TCGTGTTTCAGATTCCATATACCGT	126
917	TTCTCGATTCCAGCCAGTGA	898
636	TGGTGTCGTGGAGAATGTGAA	616
486	TGGTGTCGTGGAGAATGTGAA	466
114	ACGACAGCAGGAGCAGCATC	95
780	CAACAAGATATACGCCATTGAGAA	757
762	TTCTGTCTCTGAAGTCGAATTGTC	739
765	GGCGATTGAGAGACGGATTC	746
178	CCTTGATTCTGCTGTTGTCCTC	157
614	TGAACAATCCATCGGAGGCT	595
173	CCATAGTTACCATATCCTCCACCA	150
114	TTGAGCAGTGATGATTGGTGTC	93
187	TCTGACGATCATGAAGACGAAGA	165
147	TCTGACGATCATGAAGACGAAGA	125
1142	GTCGCTTCGGCTTCTGGTAA	1123
1037	GTCGCTTCGGCTTCTGGTAA	1018
1043	GTCGCTTCGGCTTCTGGTAA	1024
297	AGTCAAGTGCCACTCCACCA	278
267	GCAAGCGGATAGAGAGCAGT	248
194	CCAAGTCCAACAGCCATTCC	175
304	AAGGCGACTGCAAGAGAGAA	285

122	ACAGCTAGAACGAGCCATCG	103
3864	AGGTGGTGCCAGTGGAGAAG	3845
414	GTCTATCATTCGCACATCTCGGA	392
3864	AGGTGGTGCCAGTGGAGAAG	3845
414	GTCTATCATTCGCACATCTCGGA	392
899	TTACTGGAGCAAGTGATTCTTCTG	876
797	AGCGAGCAGAGCGATAGCAT	778
229	GACTTGAAGCGGAAGCACAG	210
1896	TTGTGATTGCGTTACTGTCGTC	1875
191	ATATGCCGTGCGATTCTTCTATC	169
715	TTGTTGGCAGTGAGCAGCAT	696
430	CTTGCTTGTAGTAGTAGAATGAGGAGAT	403
633	TTGTTGGCAGTGAGCAGCAT	614
100	TGGATCTGTGTGAGGTTCTGC	80
203	ACGGCGTTGGTGACTCTGTA	184
143	TGAATGTATATGTTGGACGAACG	121
174	TGAATGTATATGTTGGACGAACG	152
126	CTCGCATCTGACGGAGGAAC	107
210	TCAGTGTGCGGACAGACTCA	191
268	AATCGTTCTGTCGTAGGAGCA	248
574	CTCATCTCTCGGCTGTGGCT	555
574	CTCATCTCTCGGCTGTGGCT	555
2941	CTTGACAGCACGACGAGCAC	2922
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333	GCATATCCGACGATACAGGTG	313
368	GCATATCCGACGATACAGGTG	348
331	GCATATCCGACGATACAGGTG	311
331	GCATATCCGACGATACAGGTG	311
368	GCATATCCGACGATACAGGTG	348
1426	AATGACGGCGGAACAGGTAG	1407
530	CGCAGTCCAGTAGATTCTCAGG	509
500	TCGCAGTCCAGTAGATTCTCAGG	478
592	AATGAGCCACCAGGAAGAAGC	572
250	TTCTGGCCTCAGCACACGTG	231
300	GAGCTCGTAGAAGTTGGTATGACAG	276
117	TGCCAAGAACACATCCACATC	97
127	ATTGAAGCTCATCCTGCGTT	108
613	CTTCATGCGTCATCATCGGA	594
277	ACATATCATCAATACCGATAATATCGA	251
111	ATGTCGTTGCCGTCATCGTT	92
622	GTTGAATCCAGGCGGTGTCC	603
622	GTTGAATCCAGGCGGTGTCC	603
576	GTTGAATCCAGGCGGTGTCC	557
1780	GTTGAATCCAGGCGGTGTCC	1761

1740 GTTGAATCCAGGCGGTGTCC	1721
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219 CTGCACTTCTGATTCTGAACACTT	196
569 TCTCTTGTGCGCAATTCCACTG	549
490 TCACCAACAAGATGTCGTGCT	470
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300 CGACACTGAGATGGATTGGAC	280
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208 CGACACTGAGATGGATTGGAC	188
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272 CGACACTGAGATGGATTGGAC	252
1071 GGAGGCATCGTAGTAGAAGCG	1051
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906 GGAGGCATCGTAGTAGAAGCG	886
906 GGAGGCATCGTAGTAGAAGCG	886
1320 GGAGGCATCGTAGTAGAAGCG	1300
1047 GTTGTCTGAGCCATCTGAGG	1027
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642 GGTCGGATGTTCAAGTTTCA	623
258 CGACGACGATTCAACAGCAA	239
329 TGGAACAGTCGTGGATCGTT	310
506 GCAGATGGAACACAGATTGATTG	484
612 TGTTGGTGTAGTGGTGGTGGTT	591
318 TGTTGGTGTAGTGGTGGTGGTT	297
140 AGCAGGAAGATCGAGATGCC	121
801 TTCTGTTCCACTTCGTTTCGTT	781
129 GACTGCGGTGAATGCGAGAA	110
179 TTATAGGCTTGCTGTGCTCCA	159
1785 TTGTGGCGTGGAGGTAGTCG	1766
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503 CCACCTCCACTTCTACAACCG	483
209 AATTCCAGCAATTCACAGGATT	188
550 GCAGAGCATCGAGCTTCATG	531
468 GCCTCCTCCATTGCTTCCAG	449
175 GCCTCCGAACTGAGATTGCTG	155
166 TGCAACCATTGACAATGGTG	147
281 ACGTGGAGAGAGTAGTAGCTGTGA	258

1299	CACATGTTGGTCAGCCGTAGA	1279
551	AATCTGCTGGTCTGTGGCTT	532
220	TGGAAGTGGTTGATGATGACG	200
220	TGGAAGTGGTTGATGATGACG	200
318	TGGAATAGGTTGGAGTGGAGAA	297
335	TGGAATAGGTTGGAGTGGAGAA	314
153	CAGAGAGGCGAACGATTGGT	134
187	GGTTGTTGTTGTCGTAGGAGGA	166
1055	GCTGCTCATTGCTGATGCTC	1036
1074	GCTGCTCATTGCTGATGCTC	1055
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1074	GCTGCTCATTGCTGATGCTC	1055
152	CCGATAATGAAGCCGAGCAG	133
5332	GCTGTTGTTGTGGTGAGTTGGC	5311
813	CCACCTTCTGATGTCTTCGG	794
446	CGTTGGTTGATGTTGACAGG	427
446	CGTTGGTTGATGTTGACAGG	427
122	AGCCATTCGCTCTTCGTTGA	103
223	ACTGCGTTGTAGGCTTCACTGT	202
640	TGACAGATAGTCGAGTTGGAACA	618
130	CCTTAGTCTTATCGAAGATTGAGGA	106
256	GGACCAGAGGAATGTGAGGA	237
265	GGACCAGAGGAATGTGAGGA	246
258	GGACCAGAGGAATGTGAGGA	239
207	GGTCAGTCTTACGTTGTATCTGTGC	183
216	AAGTAGCGACCGAATCCAAGT	196
292	GGATAAGAAGAATCAATGCGAAGA	269
276	GGAAGATACAGAAGCTGTGAGATTAGTC	249
280	GTAATCCACATATAATAATCCATCGG	255
280	GTAATCCACATATAATAATCCATCGG	255
816	CATTGTTGGTGGAGTTGCTG	797
140	CTCCACACGTGGCTTGATCA	121
1570	GCAGAGGTGGAGGAAGTGGAA	1550
1782	ATTACGGATTGCGGCGATTG	1763
1782	ATTACGGATTGCGGCGATTG	1763
249	GGCATATCCGTAACTCGTGAA	228
227	TGTAGATAATTATCCAGATCCAGCTG	202
249	GGCATATCCGTAACTCGTGAA	228
227	TGTAGATAATTATCCAGATCCAGCTG	202
878	CGAGCGTCAAGAGTATGGTTC	858
905	TTGATTGTACAGCTCATTGAGATCA	881
442	GCGAGCACATCCTGAAGAGT	423
351	CCTTGTTGGCATAGTCGTATCC	330
1027	CAAGAGAGGAGAGTTCGGCAA	1007

3614	TCCACTCGTCATCAGCCATA	3595
3608	TCCACTCGTCATCAGCCATA	3589
3608	TCCACTCGTCATCAGCCATA	3589
3040	TCCACTCGTCATCAGCCATA	3021
3034	TCCACTCGTCATCAGCCATA	3015
3034	TCCACTCGTCATCAGCCATA	3015
836	GATAGTCCGCCGTAGATGATGG	815
557	GATAGTCCGCCGTAGATGATGG	536
296	GATAGTCCGCCGTAGATGATGG	275
248	GATAGTCCGCCGTAGATGATGG	227
602	TGGCGTTGTTCTGTACTTGA	582
198	ATCTGGAAGAACATCCTGCCAA	177
1624	CCTCAGCAGCCAGTTGTTCA	1605
569	TCGAATCCGTTTCGCACAATC	550
1525	GTGCGATGCGTATGGTGATG	1506
1480	GTGCGATGCGTATGGTGATG	1461
182	GTGCGATGCGTATGGTGATG	163
490	GGTGATATGGTTGAAGGAGTGC	469
143	GGTGGAGGAGGAGCTGGCTT	124
290	CGGATAGTGATATAATCTGACAGCATA	264
848	CGGAGAGCGATGAAGTACACC	828
476	CGATGTCCAATTCGTACTATAATCC	452
329	TCAGCAGGAGTCTTCTCGGT	310
134	CTGGATTCGACAATCGAGACTT	113
406	GCCTGAAGAAGATGGAGTTGG	386
179	GCCTGAAGAAGATGGAGTTGG	159
522	TTCTGTGTTGTTGTTGGATGGA	501
453	GTGTGGTAGAAGAATGAAGAGTTGGAG	427
164	GATGGCGTTGAACTTCTCTCC	144
164	GATGGCGTTGAACTTCTCTCC	144
221	GATGGCGTTGAACTTCTCTCC	201
2162	ATCCAATAACCATCAACTTCACGA	2139
352	ATCCAATAACCATCAACTTCACGA	329
719	ATCCAATAACCATCAACTTCACGA	696
806	TGATTCTGATGTGGCTTCTATGAAC	782
422	GAGAATAAGTTGAATGCGACCAA	400
553	CTGGAGCACAATGACTGGAAC	533
120	CTGGAGCACAATGACTGGAAC	100
455	TGGAGTTGGTGAGGATGTGC	436
1124	GCGACCACGAATCAGACCTT	1105
711	GCGACCACGAATCAGACCTT	692
180	GATTCCTGTTCCGACGCTTG	161
526	TTCCTCCGTGCACAAGAACC	507
876	TCGGCAGTTACCATTGTTGA	857

1378	AGAGTTGTATTGTACACGGAATGG	1356
680	CCGAAGACACAATGTATGGCT	660
284	GATACATCGTACACTAGAACTATTGCGT	257
115	GTGGCTGTATTGTGTGTGTCTGG	93
174	GTGGCTGTATTGTGTGTGTCTGG	152
740	TTCTTGCGAGAGTCAATGCC	721
174	GTGGCTGTATTGTGTGTGTCTGG	152
280	CGGTTATGACAGCTTCCGTCTT	259
120	AAGCTCGGCACCATCTTCT	101
1020	GCAGTCTGGTGTCTATATCCTCA	999
278	CTCATCGATTCTGTGAGAGGATT	257
251	GCTTCGGAGAACCAGCCATT	232
2003	TTGACGAATGGAGAGGCTTC	1984
902	TGTCGGAGCACTACGGAATCG	882
884	GACTGATCTCCGATCCATTCTTC	862
186	CAGTGTGTCTTGCAGAGAGAGC	164
429	TGTCACGACAGCCGTTGGTT	410
533	GCAACGGCATAACTGTCCTC	514
802	CGGCGTAGTTACTGTGTGTGCG	782
972	TGCACAACAGAATCCTCCAA	953
699	TTGTTGGCTCATCGTCACTG	680
708	TTGGTGGCTCATTGTCACTG	689
373	ATTCTCGGCACTTCGCTTC	354
277	TGCCTCTTGCTCGTTGGATC	258
265	AGGTCGCCTCTTGCTCGTTG	246
216	TTGGTAGGCAGGAATTCGAG	197
812	TTGGTGAACATGGTGTCTCG	793
308	ACCACGAGGCAACCTGATGT	289
262	TGATGGTCCGATGGATACATG	242
267	TGATGGTCCGATGGATACATG	247
642	TTGTGAACTCTCCAGTTGATACG	619
414	GAGTGGCGAGATTGGTGGAG	395
432	GAGTGGCGAGATTGGTGGAG	413
414	GAGTGGCGAGATTGGTGGAG	395
432	GAGTGGCGAGATTGGTGGAG	413
150	TCCTGCTTGACCGTACTGAACA	129
1101	CAGACAATCTCCACGACCACA	1081
277	GCTTGTATAGCTGGCTCTGC	257
475	TCTCGTAATCATCTTCCTCTCCA	453
404	ATTCTCGGCACTGGATGGTT	385
1251	CGCTGAGGAGATGGTGGACA	1232
904	CATTCATCTGTTGTGGCGTAAG	883
852	ACATCGATGATTGCCGAAT	833
500	CTCATCATCTTCGGAAGAGCTT	479

3307	TGAACAGATAGGCGAGAACCA	3287
128	GGAAGCGATGTTGTAGTTGTTG	107
885	TGCGACTCCTTCGAGTACATG	865
276	TCGATGTAGACCAATCCAGAACT	254
240	GAATGCAGTGCGAGCGTAGA	221
573	CACAATATATGGCTCGAAGTCGTT	550
810	CACAACCGATCCACAAGAGG	791
1221	GGATTACGCCAGTACAACCTCAACA	1198
1095	GGTCATATTATAGACAAGTGCATGTAGA	1068
1621	TCCATAGCGTGATTGACTTCTG	1600
1095	GGTCATATTATAGACAAGTGCATGTAGA	1068
1097	AGCACACTCAATCCGAATACG	1077
1209	CCAGTGTAGGAGTACAGATTGAGTAGTG	1182
1295	CCAGTGTAGGAGTACAGATTGAGTAGTG	1268
581	CACATAGACGGAGAATGATGGA	560
375	TTGCTTGATGACATAGACGGAGA	353
174	CCTATTCGCACATGGAGCTT	155
316	TTATCCAAGGCGTCCAGGTG	297
459	CGTTCCTCGGATGGTGTGTT	440
541	AGCACACAGAACTTGGAGCCT	521
388	GCATGTACTGACGCATTGACTG	367
147	AATGCTGCAATAATCAATCAATACTGA	121
580	AGCACACTGTGTCGGAGCAA	561
462	GGTCATCAGAGCCGCACAGT	443
3755	CGGAGCTTCCAACCTTGAT	3736
587	CGTTGTCTGTGGCGAATGAC	568
764	GTGATGGCATTCTCGTCGTG	745
690	GTGATGGCATTCTCGTCGTG	671
1029	GTGATGGCATTCTCGTCGTG	1010
183	GTGATGGCATTCTCGTCGTG	164
873	GTGATGGCATTCTCGTCGTG	854
764	GTGATGGCATTCTCGTCGTG	745
888	GTGATGGCATTCTCGTCGTG	869
1035	GTGATGGCATTCTCGTCGTG	1016
227	GCTGCGTCTCTGCCGTCTCT	208
592	AAGTGTACAGTACTCACTGGTTGTCTC	566
2187	CGTCTCGTCTCTCTCGTATCTCTCC	2163
579	TCCACCAGCATTGAGTCCAC	560
858	TGTTCTGACTTCGTTGATTGGTC	836
340	ACATCGTTGATTGTCTCGTTATCG	317
165	GTAAGGATGGTGGCGGTTTCG	146
1217	GGATTGCGTCGTATTGTACTTGA	1195
931	CGGAATCAGAGGACGACGAT	912
931	CGGAATCAGAGGACGACGAT	912

776	ATTGAAGGCGACGAGATGAG	757
1112	ATTGAAGGCGACGAGATGAG	1093
773	CGAATGGATTACGGTAGAGATGA	751
1109	CGAATGGATTACGGTAGAGATGA	1087
701	CGATGATGATGAAGCCGATT	682
701	CGATGATGATGAAGCCGATT	682
1653	CACTTCGGACAGGTCTTCGG	1634
701	CGATGATGATGAAGCCGATT	682
1184	GCAGTATGTGATAATCGCCTGA	1163
1020	GTAGGATAGGTAGACGAGGTACGC	997
634	CAGAATGATGCCGAACACGA	615
634	CAGAATGATGCCGAACACGA	615
171	GACTTGTTGCTCACCTCCGT	152
246	GGCTCCGATTCCAGGTATC	227
720	CTTGACCTTGTCTGCGGTGT	701
404	CGATCACAATCGTCATCGGTTA	383
128	ATACTTGCATATCGGCTAGTTGG	106
112	CGGAGAGTTGGATGATGAGTG	92
1393	GCACTGTCCACCGTTCTCAC	1374
243	GGCTCACTTGTTGTGGATCTGGT	221
1539	AGTGGAGAGACAGATGACAGGAA	1517
305	CGTTGATTGTCTCGTTGTCGT	285
592	GCACTTGTTCTCCGTTCCAC	573
136	TGTTACGATGTTGGTTGTTGGA	115
358	ATCCTCTTCCAGGACATCCAT	338
440	GAAGGTCGTGTTCTTACTTCTCAGA	416
5344	CCGAGAGATGACGATGTGTG	5325
319	GCCGACAGTTGAAGCAGGAA	300
143	GACTGCTGGACGAGGTTCTTC	123
930	GCTGGAGTGATGATGATGCTG	910
766	GGTTGTTGGCGGTATGTGGA	747
216	AGACGTTGAGATTGATGGCAA	196
216	AGACGTTGAGATTGATGGCAA	196
202	GCCAGACAGCTCTCACAACA	183
293	ATTAGAGGCACCACGATGTTCC	272
704	TCTGTGCGAACTACGATGACTT	683
112	AGTCGCTGCTGGAACGGAAG	93
206	CCGCTGACTTGGTAACTGCT	187
422	TGGTTCGGTAGTTGGTTCAGC	402
455	AGAATCACAGCCATGAGCCA	436
958	TCACTGAATGGCAGATGGAA	939
361	ATGCAGAACATCGGCGTGAC	342
414	ATCCATTCCGATCCATCCAC	395
838	TCGCTGACTTGAACGGCATC	819

389	AAGGAGCGAGCAAGGTCCT	370
425	GGAAGCAAGAACCAGATAACGA	404
135	TGTAGATGAGTTGACTTCGGCTT	113
1237	GAATTAAGCCGCCATATCGTT	1217
1012	GAATTAAGCCGCCATATCGTT	992
1048	GAATTAAGCCGCCATATCGTT	1028
141	GCTCGATGAGAGTGGCTTGC	122
150	TTCCAGAACATATTGCCGTTG	130
160	TTCCAGAACATATTGCCGTTG	140
164	ACTTGACACGAAGCATCAGAGA	143
120	CGCCAACGACATCTCCATCT	101
1758	GGCTTCATCGTATTCTCGCA	1739
551	TTCTTCTCCTCCAGCTCAGTCTT	529
398	TGTACTTGTGATTTCGGCTCCA	378
595	CGCAGAAGATAATCGGAGGA	576
328	CAACCGATTGTTTCATATCTCCTT	306
274	GATTGGAAGAATTGGATCACCTT	252
314	TCAGCGTCAGTCATTGTTGC	295
354	GGTCTGTGGCTTGGTTCTCG	335
609	TCCGAAGCATATCCATTGATG	589
1821	TGTGTAGAGGTGTGTGTGTGTGG	1799
2224	TGACTCATCTTGGACACGAACA	2203
1862	TGACTCATCTTGGACACGAACA	1841
684	GCAGGTTGATACTTCCACGACA	663
1263	TGACTCATCTTGGACACGAACA	1242
2224	TGACTCATCTTGGACACGAACA	2203
266	TGCCTTGAACCTCTCGCTGAT	247
114	TTCTGGTGGCATTGAGCATT	95
1030	AGAAGAAGCATTACAGTATCCAGCATT	1004
1391	CACATTCTCGTTCCGCTGAC	1372
197	GTGCTCGTCTAGCGGCTCTT	178
153	CGCCGATTGTGGTAATGTAGT	133
3133	ATCAATCGCCTCGTACTTGC	3114
3301	ATCAATCGCCTCGTACTTGC	3282
688	ATCAATCGCCTCGTACTTGC	669
195	TCTTCATCTGACTCTAATGTGTGGA	171
350	ACGGTTACTGTGTCGGTGGA	331
748	GGAGATGGATGTAACAGTGCAA	727
3539	TGTTGAGCCAGATAGTAGAGGAGAT	3515
3539	TGTTGAGCCAGATAGTAGAGGAGAT	3515
330	TCCAGATTGCTACTACACTTCCG	308
147	TTGCAGTGTTAGCAGACCGA	128
534	TTATCGCCAACCTCACGCATC	515
196	ACCAAGTGACGATAGTAACGAGAAGT	172

301	ACCA	GTGACG	ATAGTA	ACGAGA	AAGT	277
172	ACCA	GTGACG	ATAGTA	ACGAGA	AAGT	148
247	ACCA	GTGACG	ATAGTA	ACGAGA	AAGT	223
615	GCAG	TAGATT	CCGAAT	GAGACG		594
667	ACTT	CCGTGT	CCAGGT	CGTA		648
1012	GCAC	GAGAAC	ATTACAG	ACACG		991
3013	TTGT	GTGATG	GGTGGC	TGCTG		2994
868	GATG	TCTTGT	TTCAGT	TGATTG	GAC	844
543	TGGT	AGAAGT	CGTGCT	CATTGTA	AAG	519
1202	GGAAG	TGGTGT	CATCAG	AGCGA		1181
97	GTGT	GTACCAG	GCGAAT	CCG		78
125	GCCT	AAGCTT	ATGACCT	AAGCAC	AG	101
222	AGTA	GGACAC	CAACG	TCCGT		203
139	GTTG	AGCACC	ATGACA	AGCG		120
678	GTCG	TCTAGT	CTTCTG	GCTTG		657
235	CAAT	CCAGGC	AGTCAC	AGTTC		215
951	TTCC	AGATGG	CAAGG	AGAGG		932
862	TTGA	TATATC	GCAAGC	ACCAG		841
862	TTGA	TATATC	GCAAGC	ACCAG		841
230	TGGA	ATGCAG	ACGGA	AGCCT		211
1091	CGAT	GAGATT	GTGTGCC	GTA		1072
630	CGAG	CAGTGT	AGGCAG	ATGAC		610
109	GAAG	AGCACG	GGCGAT	GGAAT		90
371	TGAG	AGCACG	ACGTTG	GGAAT		352
573	CGTT	GATGG	AGTCTG	CGGTT		554
951	AATAT	ATCATC	GAAATCT	ATGCCTT	GGC	925
1044	CGGA	AGGAAT	GAAGAG	AGAGG		1024
1083	CGGA	AGGAAT	GAAGAG	AGAGG		1063
1289	GATGA	AGAAGA	AGCGG	AGGTC		1269
850	GCACT	ACTGCT	GTCAGG	TATACT	AGATG	823
423	GCTCA	TCAATC	CAGGC	CACAT		404
155	TTGG	AGCTGC	CATATG	TTACTTG		133
721	TACGA	ATCGCG	TCGAG	AGAA		702
338	CTCT	TGATTG	GCTGG	AGAGC		319
100	ACGCT	TGCTCG	AAGGTG	TAC		81
172	GAGAT	GGTGG	AGGTGG	TGGT		153
315	CAGGT	ATTGTC	GATTGT	GAGCA		294
313	ATTG	GCGATT	GTGTG	CGGTA		294
621	CACCG	CAAGAG	ATGTTC	CGTC		602
790	CACCG	CAAGAG	ATGTTC	CGTC		771
624	GCGTT	GTCAAG	TGGTGT	CAGA		604
624	GCGTT	GTCAAG	TGGTGT	CAGA		604
223	CTCT	TGTCCT	TGTTGA	ACCGTT		202
164	CGGT	CAGAAG	TATTGAT	GTGGTG		142

164	CGGTCAGAAGTATTGATGTGGTG	142
159	CATTCATCATTGGAGCAGTTGG	138
1981	AACGACAACGGTCCGACCTT	1962
1397	TCAGATTCGGACATCATCATTG	1376
2972	AAGGCAGGAACCATTGAACC	2953
1430	TCAGATTCGGACATCATCATTG	1409
1721	CAAGTTGTGTCACTGCGAGAA	1701
139	GGTTCTTGTCTCCACCTTGT	119
756	CCTCTTGGACATCACTAGACTTGC	733
761	TCCTTGGTCGCCGTTGGTAT	742
2176	GAGTTGCTTCTTCTAATCGTTCAGT	2152
950	GCACGTACACGCATTGGTGA	931
1172	GTAGAGCCGCCTGAGAATGC	1153
1172	GTAGAGCCGCCTGAGAATGC	1153
449	TTCTCGGCTATTCTGTTCCAG	430
658	CGGATGAACTGAGGACACGTAGAC	635
1164	GGAGCAGATGGTGGTAGTGG	1145
658	CGGATGAACTGAGGACACGTAGAC	635
1370	GCGAGGAGTGTGAGAGAAGC	1351
681	CTACTTCGGATGTAGTTCAGGAC	658
1493	GCGAGGAGTGTGAGAGAAGC	1474
677	CAGCAACTTCATTGGCATCAC	657
4252	ATTGTGATTCTGTGGCAGGAC	4233
247	AGGATAGCAAGCAGAGACGGT	227
234	AGGATAGCAAGCAGAGACGGT	214
207	GCAGCAGGTAGACCATCTGG	188
489	CAGTATCGCAACGGAGGAAT	470
1590	ATCCACTGCTACCGCCATCG	1571
902	TGCGGCTCATCGTCTGTTAC	883
415	AGAACGTGTGCTCTCCGCTT	396
361	CGAATGTTACTCCGTCGCAAT	341
169	AGCCGGTTACAGCTTGAGAA	150
153	AATATTCCGTCACATTAATCGAGAA	129
391	TCTCTGTGCTCTCTGGTGCTT	371
153	TGATGGTGTGGATTCTGGCA	134
249	TGTAGAAGTTGCTGATGGATGCC	227
834	AATTACAGAATGTTGTGGTGAATTC	809
1311	CGTTGAGGAAGTTGGAAGAGG	1291
1364	CGTTGAGGAAGTTGGAAGAGG	1344
1386	CGTTGAGGAAGTTGGAAGAGG	1366
1439	CGTTGAGGAAGTTGGAAGAGG	1419
196	GGAACCATCTTGACGAACAGCA	175
610	CGTTATCCTCCTCCTGATTGTC	589
622	CGCTTATCGCTCGTGTTGTAG	602

975	CACTGACAATCCGGTTCTCG	956
146	TCCTGGCTCTGGCTGTCAAC	127
742	TGTCTAGTCGAGGAATTCCGCTT	720
575	CTTCAGCTCATAGTGTTGACGGTT	552
580	AGTACTCGTTCAGTCCTTGACTCAT	556
583	AGAAGTGCTCAGTTAATCCTCCAC	560
120	GAGAGTTCCAACGAGGACCA	101
794	AACGCTGGATACATTGCTGAG	774
105	CGTTGTTGTTGCTGTTGGAG	86
726	GGATGTTGTATTAGTTCATTGATGTTG	699
526	GTGGCGATGAAGAGGCTGTG	507
261	GTGGCGGAGAATGAGGAACT	242
3278	GATGAGATGTCGGCGTATGG	3259
214	GCTCCGTATCGTTATACACCACT	192
214	GCTCCGTATCGTTATACACCACT	192
298	GATGAGATGTCGGCGTATGG	279
1463	TCTTCTGATGTGGCGGTGTG	1444
489	TCACCGAGGCCATTGACATC	470
99	GCTATGGAGGAAGAGGAATCACG	77
1175	GGATTCGTATCGCATCGTCT	1156
1994	TGGATGAGACTATCGTATTCTGCTTGA	1968
180	GCTACCGTACTCCTCGACCAT	160
396	GCTACCGTACTCCTCGACCAT	376
325	AGTGACTGCCACCATTGACC	306
349	AGTGACTGCCACCATTGACC	330
126	GCTGGAATTGCCGTTTCGATT	107
403	GTTGAGTGCATGGTGACGTG	384
380	ATCACTTCCTCGCCATCATC	361
193	ATCACTTCCTCGCCATCATC	174
434	ATCACTTCCTCGCCATCATC	415
387	ATCACTTCCTCGCCATCATC	368
705	GATCAGAAGGCAAGGAAGAGC	685
2796	TACCTCGTTGGCTTCGTTGA	2777
2775	TACCTCGTTGGCTTCGTTGA	2756
670	CGGCACCAGATGATGAACGT	651
466	CGGCACCAGATGATGAACGT	447
300	CGGCACCAGATGATGAACGT	281
921	GGTGGTGGTGGAGATGTGAC	902
292	ATTCTCGATTGATTCATTAGACGTT	268
198	GACTGGATGTGTCTGCATTGC	178
151	TTGCTAGTGGCTGAGCGATTG	131
128	CTTCCGTATCCACTGCTTCCTC	107
179	GATCACTTGCAACGAGTTGTC	159
584	ACTTCCTCGTCGTCATCGTC	565

754	ACTTCCTCGTCGTCATCGTC	735
311	GGCATGGATAGCAAGATGTGT	291
1193	CGAACACAGCTTGGTCGGTA	1174
440	ATGAGAGTTGCGGCGAGATC	421
216	TTGAATCGCAGTCTTGTGATCT	195
348	TGGAGAATCAACGACAGCAA	329
203	GCTCATCGAGCGTTAGACCA	184
786	GTCTTCAACTACTGTCGGATCTTCT	762
672	GTCTTCAACTACTGTCGGATCTTCT	648
256	CAGCGTCTTCTGTCCAGTCA	237
539	TTCTTCTTGGTCGTCATCTCG	519
1549	GTGTGTCCGAGCGAAGAAGT	1530
1026	ATACGAGTTGAGGCGAGCAG	1007
1156	ATACGAGTTGAGGCGAGCAG	1137
242	TTGTCATATCCAATGTGATCCTCA	219
121	TCTGAAGTCGGAGAGCCTCATC	100
287	GAAGTCGGAGAGCCTCATCG	268
90	CGACGAACAACCGAAGATACG	70
122	AACGGACGGACCACTACTGA	103
139	CAGAACGAGCAGGTGTAGCG	120
139	CAGAACGAGCAGGTGTAGCG	120
135	AGCAGTAGGCAGTCAGTCAGTAGA	112
159	TAATGGCCATGGTGATCGTG	140
148	CATTGGCATCGTTGGTGAAC	129
1336	TCTACCACGACCACGACCTC	1317
1215	GGCTCATCAACAGGAACCAT	1196
415	CAATCACAGCAAGGATACCGT	395
641	GGAGGAGTTGGAGGAAGTTGTGG	619
788	GGAGGAGTTGGAGGAAGTTGTGG	766
228	AGAGACAGAGGTAGGCGATGAG	207
324	GCACGACAATTCTCCACTGG	305
1888	CCAATAGGAATATGTTGTCAAGGAG	1864
1623	GTTCTACTGCTCGCTTCCG	1604
554	CCACATCGTCAGGAATGATTC	534
141	CGTTCTGATGCGTATTGCCA	122
211	TGATGCATAAGGCCAGTTGA	192
1844	GCAAGTATTGGTTGTAATAGGAGTGA	1819
317	ACAGAATCGTGTGCGAGAAGATGA	295
2202	AAGACAACCGCACACTCCGT	2183
722	AAGACAACCGCACACTCCGT	703
1794	AAGACAACCGCACACTCCGT	1775
203	AAGACAACCGCACACTCCGT	184
325	GGTCCGTGTAGATTGGCTTGT	305
363	TTCCTGTTGGCGGAGCATCT	344

363	TTCCTGTTGGCGGAGCATCT	344
363	TTCCTGTTGGCGGAGCATCT	344
363	TTCCTGTTGGCGGAGCATCT	344
148	GGTGGAGATTCCGTAGAGAGTGTC	125
192	GGTAGGCATGGAAGGCGTTC	173
184	TTGAGTGAGGATCCACTGACG	164
782	CGACTATCACTGGCTCCGAA	763
213	TGGAAGAAGTCGTGCTCGTG	194
140	CGTCATCGGTGAGAAGAGCA	121
316	CAACGACGACACTCCGAATG	297
316	CAACGACGACACTCCGAATG	297
175	CAACGACGACACTCCGAATG	156
2331	AATGACGCATTCCGACACCTT	2311
133	ACGGACGGAGAGAAGAGGAAT	113
356	TTGTTGGAGGTATTCGTAGATGTACG	331
745	ATCCATCTAGGAGACCTTCTCGTAT	721
299	CCAAGATATCGAACCTGACCAG	278
421	TTGTCCATTGGCACATCACG	402
573	TTGTCCATTGGCACATCACG	554
3726	TGATTGAGCAGCGAGGAGTC	3707
171	CAGTCTGCATGCTCAATGCG	152
287	CGGAAGAGAGATGTTGAGGTG	267
829	TTACTGGTGACAATCACTTGTTCC	806
540	GGTTGAAGTGTTGGCAGTGG	521
183	TTCTGTATAGGAGCCACTTCTGC	161
1410	TGGA CTGTGTTGCGTTGTAGACTTC	1386
887	TGGA CTGTGTTGCGTTGTAGACTTC	863
837	GATTAGAGACGTGGCATAGGTGT	815
1450	CGTATCCTGTCTTGGCACTGA	1430
259	AACGCTGTGTGGAGGATGTG	240
199	GCTGTGTGGAGGATGTGGAA	180
214	ATCCAGTGAAGAGATTGCGAA	194
720	GATGGAGAAGTACGTGTGGAGAA	698
717	GCTCATAATCGTTGGTGGTTCG	696
715	GCTCATAATCGTTGGTGGTTCG	694
775	GCACTTGAAGCTGGTCTTGACA	754
582	CGTGTCGTAGGAGATTATTCAGG	560
183	ATAAGTGTACTCGTATTGATAGGTGTCC	156
378	ATAAGTGTACTCGTATTGATAGGTGTCC	351
504	TTGGATCTGAGCAGGTATATGGTT	481
160	TTCCTCGTCGGTGGAGAAGA	141
160	TTCCTCGTCGGTGGAGAAGA	141
146	CACACCGAGTTGTAGAGCACCT	125
1851	GCGGAGCAGTGAGGAGGTGT	1832

138	GCAGTGAGGAGGTGTTGGTT	119
831	GCGGAGCAGTGAGGAGGTGT	812
85	CACACCGAGTTGTAGAGCACCT	64
137	CACACCGAGTTGTAGAGCACCT	116
212	CGCCGAGCAATAATTGATGA	193
583	GCATTGATAGGTCGTTGATGTG	562
637	CGTATTCCTGATGTTGCTCTTCT	615
156	CGATGGAGCCGTAGAAGTTG	137
492	TCCTGAGACCGATTGTTAGAGC	471
492	TCCTGAGACCGATTGTTAGAGC	471
519	TCCTGAGACCGATTGTTAGAGC	498
839	TCAGAGCAAGTTGACGAGAATG	818
453	TCAGAGCAAGTTGACGAGAATG	432
340	TGCGATTCCGTCCATTGTTG	321
2025	CGAGTAGTTGACGAGGTAGGCA	2004
774	CGAGTAGTTGACGAGGTAGGCA	753
198	GGTAACAACTGATGACGTGGCA	177
233	CTGAATTGTGTTGGTATGACGATC	210
2804	TCGCTCATCACCAGTTCCAC	2785
204	GAAGCTACTTGAAGTCGTATAGAGTCC	178
291	TCCATTAGCAGGCGGCATAC	272
1448	CGGATTAGAGCACGCACACA	1429
551	TTCCGTAGCAACAGAGTTAGAGG	529
587	TGCCACCTCGTATGACAGAA	568
1536	GAGCACCGTTCTACCGTGTACTTC	1513
1525	GAGCACCGTTCTACCGTGTACTTC	1502
1785	CGTTGGATGATACTGGCACA	1766
4879	CAGAGGCGACACCGAGGATT	4860
269	TCAATGACACATGCGATTAGGCT	247
3094	GTGGAGCAACAAGTGGATGG	3075
556	CTTACTGCGACGGTGGATTG	537
949	TCTCGTTATTCCGATGGCAA	930
292	GAACGTGTGGAGAGAATGTGAA	271
164	ACGGTGTTGCTCCGGTGAAC	145
945	ATGAGTGGCTGGAACGATGA	926
528	TGTGGAGACACGAGATCGCT	509
173	GACCATCATATTGACATGTACCGTT	149
431	TTCCATTGTCGTAGGCTTGC	412
604	TTCCATTGTCGTAGGCTTGC	585
604	TTCCATTGTCGTAGGCTTGC	585
120	TCGGATGGTTGTCAATCGTT	101
144	ACAGACTACACAATGCGAGACG	123
624	TGATTCTGAAGAATCCGTTCTG	605
2385	GACAATGACGATCAGAGCCAA	2365

3318	CCAGATGCGTAGTTGACCTTC	3298
3333	CCAGATGCGTAGTTGACCTTC	3313
689	TCGTAGACGTCGGTGGAGTG	670
755	CACGTCCAACAGAGATGTGACTTG	732
719	CACGTCCAACAGAGATGTGACTTG	696
449	GCAGATGTGATTGGAATGAGGTC	427
2071	CTTCGCCATCAACTGCTCAT	2052
1674	CTTCGCCATCAACTGCTCAT	1655
1648	CTTCGCCATCAACTGCTCAT	1629
393	CTTCGCCATCAACTGCTCAT	374
180	GTAGGCTGGTGGTGGTGGAG	161
250	GCGTTCGCCTTATGGTAGTCA	230
287	GCGTTCGCCTTATGGTAGTCA	267
364	GCGTTCGCCTTATGGTAGTCA	344
392	GCAAGTAGCACACTGGCAAGT	372
287	GCGTTCGCCTTATGGTAGTCA	267
364	GCGTTCGCCTTATGGTAGTCA	344
239	GCGTTCGCCTTATGGTAGTCA	219
184	GCGTTCGCCTTATGGTAGTCA	164
304	CGAAGCAGCGGTCGAGAGTT	285
120	CCATTGCTACGGAGTTCTGATAG	98
128	TGGAGCAGCGTAGGCAGTATG	108
2618	TCACCGTTGTAGCCGAGTTC	2599
1759	TCACCGTTGTAGCCGAGTTC	1740
1487	TCACCGTTGTAGCCGAGTTC	1468
1216	TCACCGTTGTAGCCGAGTTC	1197
197	TCACCGTTGTAGCCGAGTTC	178
1473	AGGCGGCGACTGAATAGGTT	1454
833	AGGCGGCGACTGAATAGGTT	814
239	AGGCGGCGACTGAATAGGTT	220
417	TGGTGCAATTGTGTAGTAGCC	397
185	GGTCCATCGGTTCTCCTG	166
552	TTGTGATGATCCGCTGAAGA	533
511	CATCGGTTGGCTTGGAGACA	492
429	CATCGGTTGGCTTGGAGACA	410
648	CGATCATCATCTCGTCGTA	627
648	CGATCATCATCTCGTCGTA	627
467	TTGCAGTAGAGTCGGAGCATT	447
502	CGGCTTCATCAGATCCTTGA	483
305	TCGTCCTCCTCGTCAATACTG	285
980	TTGTCCTGGCGAGTTGTGAG	961
338	ATGCTGAGCCAGAGCACGAC	319
267	TTGTGATGTCGAAGGAATTGAGAA	244
5669	CGGAACGAGTCAGGTAGAGC	5650

1647 GTTGCTGCTGTTGGACTTGA	1628
520 AAGATACATCATTGTTCCGAGGA	498
206 CTCCATTCTTGACAGCTGCTC	186
603 CGCATTACGATCAGGTATGTCTC	581
1120 CGTACAATACAGAAGGAGCATCAAC	1096
612 GGCTGAACAGAGCGTCGTCT	593
691 GACCATTGAGCTTCAGTAACATCG	668
1118 AGACGAGCGGCAAGGTAAGC	1099
1112 AGACGAGCGGCAAGGTAAGC	1093
214 CCATCTTCTCGGCTGTGACG	195
851 ATCGAATTCCAGCGTCTGTC	832
369 TTCTTCGTA CTGTCATCGTCA	348
308 TTCACCACCAGTTCGGTTGT	289
143 TGA CTGCGTCACAGGTAA	124
563 GAGAACACAACCATCACCGAA	543
792 AATAATTGTCTCTATCGAACATCCAA	767
409 ATGTCAGCGCAATAATAACGAA	388
688 GGCAGAATTGGAAGGCGTAT	669
236 CCATGTCTGACGGTGAGGAA	217
251 CGGCTTCCACAATAACCAGA	232
709 CGGCTTCCACAATAACCAGA	690
291 CGGCTTCCACAATAACCAGA	272
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709 CGGCTTCCACAATAACCAGA	690
291 CGGCTTCCACAATAACCAGA	272
1430 TCGGTTCTCTCCAATGATGG	1411
1251 ATGTGCCAAGAACGATGCCA	1232
1234 ATGTGCCAAGAACGATGCCA	1215
182 ACGCTGAGCTTGCAGACGAC	163
1516 CGGCTTCATCTGGACTACTTG	1496
1475 CGGCTTCATCTGGACTACTTG	1455
1516 CGGCTTCATCTGGACTACTTG	1496
1475 CGGCTTCATCTGGACTACTTG	1455
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1475 CGGCTTCATCTGGACTACTTG	1455
415 AATAATACTCTTGCGGCGTCT	394
446 AATAATACTCTTGCGGCGTCT	425
360 TGGTGGTGGCTGAGAGAAGA	341
262 GTGACATCCTCGTACAACCAGA	241
513 TGGAATAGGAAGGCATCGTAGA	492
181 TGGAATAGGAAGGCATCGTAGA	160
156 TCCAGTTCCAACAACCTCAGTG	135
557 TGAGACACTCCACAGGCACTT	537
447 CGTCATGCAGGCTCTCAGAG	428

891	GTCTGTGCTTGACATGTTGTTGTTG	867
1307	GGAAGTGGTGCTGATGTAGGTG	1286
1578	GGCTCTTCGTCCTCATCCTC	1559
112	GAAGAGAGCTTAGATCTTGACGAAGTTC	85
112	GAAGAGAGCTTAGATCTTGACGAAGTTC	85
140	GCGATGCTACACGAACAGGT	121
140	GCGATGCTACACGAACAGGT	121
1203	GCTCGTCAGCTTCATCATCC	1184
186	GAGACCTTCGGCGGAGATTG	167
280	GCTCCTGATCGGTCAGAACG	261
362	GGAATCGAATCTGTTGAATAAGAGC	338
205	AACCACGGCAACAACGGTTA	186
142	AAGTACGAATTGGTACAGCAGATG	119
865	TCGGTGACCTCCATGATTGC	846
91	ATCAGCTCGCATCTCATTGC	72
707	AGCGATGGACTCGTGAGCAG	688
314	CGACGAGGTATGCTTCAGATGC	293
321	CGACGAGGTATGCTTCAGATGC	300
266	TTAATCCATAATGTATCGGAAGATGTC	240
2239	TGTAGTACTGGAGGCACTTCGG	2218
901	AGGTGCTCAGCAATCCATGA	882
901	AGGTGCTCAGCAATCCATGA	882
910	GACTACGCCAGGTGCTCCATT	890
150	CCGAGACTGTGGAGAAGGTG	131
184	GGACAATTATCGGTGCAGTCG	164
843	CTTGCTCTGTCACTGCTACGAA	822
141	CATTCCTTGTCTCCATCCA	122
493	CGAGAAGGAGAACAGGAAGATGC	471
244	CACTTGAGTTCTGATCCTTCTGG	222
549	TTCTGGAGCGTCAACGACTC	530
110	TTCTTGAGAGCGTGTTAGTC	89
1273	CGTTCTTGTTTCGGCTCGTTC	1254
173	TGGAGCAGTTGGAGCAGAGC	154
106	TGGCAGTTACAGCAAGTAGAATG	84
835	GATGATATCTCAGAAGCCAATCTTG	811
651	TGCATATGATTACATGAACCATCG	628
653	TGCATATGATTACATGAACCATCG	630
141	AAGTCATCTCAGAAGAAGAAGTAGCA	116
510	TGATGAGTGAGTGGCGAGGA	491
698	TGTGAGCCGAATGAAGAATCC	678
430	TGAAGTATGAAGAGTGAGAAGCTAGGA	404
1118	ATGGAGACGGCTGAAGAAGA	1099
252	GAATAGGAGAGAGAGAGCTAAGAGAGG	226
284	ATCAAGAGGCTGTCCATCGTC	264

276	CTTACTTCCAGCGGCACATC	257
238	CATCCTTAGCCTCATCCATCTTG	216
303	CATCCTTAGCCTCATCCATCTTG	281
230	TACCTCACATCTCCTACATCATCAG	206
2891	GACGACGACGACGAATCTCTT	2871
712	TGTCCATTCCAGTGCTCCAA	693
2808	GACGACGACGACGAATCTCTT	2788
2897	GACGACGACGACGAATCTCTT	2877
418	GCAATGCAATGTAGATACACACG	396
293	ATTGTCATCAGCTGGACGCT	274
844	TGACGAGGAGTTGGAGGAGA	825
323	GGTGACTTGAAGCATTGCTGATAC	300
578	TTGAAGCAACGTCCAGACAA	559
983	AAGCCGACTGATAATGTGTTGA	962
844	AAGCCGACTGATAATGTGTTGA	823
96	CGATAAGTTATGTTCGTGTGGAAT	73
424	AACGATTCCAATTGCAGCAA	405
728	CACGGATTACGGCGACCAAT	709
530	TTGAAGCCATTGGAACCTCGTC	510
225	CATACTGTGCTCATCGCTCCA	205
225	CATACTGTGCTCATCGCTCCA	205
1980	TCCGCTACTTCATCGTCCAT	1961
1493	TCCGCTACTTCATCGTCCAT	1474
414	ATGAGAGATACCGCCGAACA	395
149	TCCGTAGCCTTCTGATGATTG	129
170	CCTCTGCTCGCCTATGCTGA	151
552	GTTGGTGGTGATGGCTCGTC	533
71	ACGACTTGCAGACACAATAGAACA	48
964	TGGAGGTGGCTGGTGTGTG	945
179	GTGCTTCTGAGTCGGTGGAG	160
302	TGAAGAAGAGCCGACGATGC	283
141	TGCAGCAGCTGGATATGATG	122
129	CATCGTCGGCTCTTCTTCAC	110
613	AGGTTGCCAGGTAATCGTATATCTTG	588
1077	CGAAGTCTGCGAATCCAAGC	1058
950	CGGTGCCAACCACCTTCATTG	931
896	CTTGTAGGCTTCTCAATGGTCAG	874
719	GTTGTTGTTGTGTTAGTGCTGCTG	696
524	GTTGTTGTTGTGTTAGTGCTGCTG	501
1143	CAATCCGACTGCACCGAGTC	1124
620	GGCATCACACTATTCGCCTT	601
672	ATGTCGGCTTGCGGTGATTG	653
1427	TCACGATTGATGCTCCATACTC	1406
164	CCGACCAGGTATTAGGCGTT	145

137	CGATTGAAGCTCATGCGATT	118
1690	CACTATTACGCATCGGAACTCG	1669
157	TCCTTCTGGAATGCCTCAGC	138
95	ATCCTTCGGTGACTCCAACG	76
542	AACAGGAGGAAGTGATTGGCT	522
1149	TGATGATTCCGCTTCGTGAC	1130
162	TCGGACTGTTGAGGCTAGGC	143
631	CGGCTTCACGCATTATCAGA	612
309	GAACTCGGAGGCATCACAGA	290
979	TTGCGTATCTCAGCGTGGA	960
1664	CGTGGTGATGTGAGATGCTTCC	1643
1044	GGATGATGGAGTTGGTGATGG	1024
853	CGTCTGGTGTGATGTTGTCG	834
516	GAGAAGTCGGCTTGACACTGG	496
159	GTCTCCATTCGCCAACACAG	140
124	CATGCTTCCGTCTAGCTTCATCTG	101
159	GTCTCCATTCGCCAACACAG	140
1637	CGAGTTCTGGTTGGCGATT	1618
128	ACCATATGTTGTATCTCTCAAGTCCA	101
327	GGAGTTCTTACGACGGATCATACC	304
215	TGAACACGAAGGTCACCGAA	196
1385	GCTGAACTCGTCTTGATGCTC	1365
1206	GCTGAACTCGTCTTGATGCTC	1186
1218	GCTGAACTCGTCTTGATGCTC	1198
349	GCAGAGAGGAGCGTCAGATTC	329
732	TCCAATACATTCTGTATGATTGACACA	706
706	TTGCTCTTGGTATCTCTACAGGAA	683
558	CGGAGAACGGATCAGAAGAG	539
171	TTACACACTCACAGTCGGTGTCG	149
265	CACACTCACAGTCGGTGTCG	246
177	TTGAACACAAGAAGAGGACCATT	155
132	CGAACTGTTGGAACAATGGTG	112
325	CACGGCATCGCTGTTGTTAC	306
294	CCGTCGTGTATAACTTCACCAA	273
150	TTATCCAACAATGACATCAGTGC	128
422	TGGATGTGTGACTCTTGTTGGA	402
318	TGCTTCCGCAACACTGTGAT	299
385	ACTTGATTAGCCTTCCTCCGA	365
346	GGCTCATTGTCCGAGTTCCA	327
481	GCAGAGGCATTGATGGTTGG	462
229	AATCAGCTTGAATATCGATTCCTT	206
157	TCTGCGTCCTTCTGAATCCT	138
124	CAATGTACTTGAAGGAGAAGAATGG	100
257	GGTCCGTCTGCCAATGTGT	238

183	GGTCCGTCTGCCAATGTGT	164
245	AATGTTCCGTCTGATCCAGTCT	224
246	AATGTTCCGTCTGATCCAGTCT	225
909	TTCCAATAGTCGATTAGATTCCG	887
887	GGTACTCCTTGTTATAGGCGGCTT	864
947	GGTACTCCTTGTTATAGGCGGCTT	924
179	GGTGATACAGGTGGCGACTT	160
179	GGTGATACAGGTGGCGACTT	160
2844	TTCTCGGATGTTGGCGTTCA	2825
2844	TTCTCGGATGTTGGCGTTCA	2825
2626	TTCTCGGATGTTGGCGTTCA	2607
947	ACTCCTCAGATTGTCCTTCCAG	926
1424	TCTGATAACATCCTTCATCTCGTG	1401
2113	TGTGGCTGGAAGTCTGGAG	2094
2113	TGTGGCTGGAAGTCTGGAG	2094
2152	TGTGGCTGGAAGTCTGGAG	2133
1426	GGATTGGTACTGTACTTGTGGC	1404
2152	TGTGGCTGGAAGTCTGGAG	2133
2113	TGTGGCTGGAAGTCTGGAG	2094
1426	GGATTGGTACTGTACTTGTGGC	1404
2113	TGTGGCTGGAAGTCTGGAG	2094
1836	CAATCGCCAGAAGAAGAAGCC	1816
2152	TGTGGCTGGAAGTCTGGAG	2133
1836	CAATCGCCAGAAGAAGAAGCC	1816
2152	TGTGGCTGGAAGTCTGGAG	2133
2197	TGTGGCTGGAAGTCTGGAG	2178
604	CAGGCCGAATGAAGTGGTAA	585
655	TTGATGGCGTACTCGACACC	636
136	GCCGCTACTCCACTACTCACA	116
338	GTGAACCGACAGCAGCCATT	319
954	TCTTGAGGATTCTCCAGATTACCG	931
690	TGTGATGATTGAGCCTTGGAG	670
700	TGTGATGATTGAGCCTTGGAG	680
654	TCCTTCCGTACCGCAATCAC	635
310	CCGAGACCTTGAATGTTCCA	291
261	CCGAGACCTTGAATGTTCCA	242
110	CAACCACATTCTTCCGTTCTG	91
315	TCTGGAAGTCGGAATCGGAA	296
247	GGAGACGATTGCGGATTCAC	228
190	GGAGACGATTGCGGATTCAC	171
262	TGTCATGCGTCTGTTTCAGGA	243
258	GCAATCACGAGCAGTAGTCAGA	237
154	CTTGATTACCACTCTTCGTTCTGA	131
404	TTACTGGACATGGTACAAGCACA	382

508	GCAAGCGGTGATAACAGTGAT	488
308	CGAATGTAGTTGCGTGGAGTCTG	286
921	CATGTCTTGTTGAAGAGGTGCTC	899
563	CGATGAAGGAGAGTGGAAGGATT	541
1171	CGCTTCTGATGCTGCTTCTC	1152
283	TTCAATGAGATATTCGACACGTG	261
574	CGGCGTTGTAGTTGAACATTC	554
283	TCTCGTAGTCCGTGAATGAAGA	262
267	TCTCGTAGTCCGTGAATGAAGA	246
415	TGTGTCATTGTGCGTTGATGG	395
550	CGGACTTCATACATTCTGTGCAGTAG	525
514	CGGACTTCATACATTCTGTGCAGTAG	489
137	GTGTCATTGTGCGTTGATGG	118
211	GAGGTGCCGAGAATTGTGTC	192
330	GTGTCATTGTGCGTTGATGG	311
483	CGTTCGGATGTTCGTTGGTA	464
483	CGTTCGGATGTTCGTTGGTA	464
562	CGTTCGGATGTTCGTTGGTA	543
562	CGTTCGGATGTTCGTTGGTA	543
838	CGATTCACCACGATTCATCATTG	816
742	AGAATGATGTGAGTGAAGAGAGCA	719
1773	TCAATGTCGTGCTCGTAGGC	1754
958	GTCGGTGGAGCTGATGATGG	939
350	TCAATGTCGTGCTCGTAGGC	331
3597	CTCTTCGGCTTGCTGGATGC	3578
900	TGGATGTTGGTGTGGATGG	881
344	AGGATGTAATACAGAAGGATAATCGATA	317
629	TGATCATGTTGTACCTGTTGCA	608
1858	GACAACGGTGACGGAGAATC	1839
152	AATTGTTGAGGACGGAACGC	133
166	GCTCGTTCCAATGTTGCAGT	147
549	TGCTGGCAGAGGAATATCAGT	529
244	GGACTCTCCACCACACAGAA	224
274	AGAGAGTGGACGCAGACGAT	255
151	AGCAGTGGCTGCGGAGTAGT	132
908	AACCATCGGCTTCAGCACAA	889
203	CCTTCCTTCGCTGTTGGAGTT	183
635	GTCATTGTGTAGAGGTAACGAAGAAC	610
456	GTCATTGTGTAGAGGTAACGAAGAAC	431
312	GGCGAGAATGTGATGACTGGT	292
104	GCCAAGATAGCGGTCAGAGTT	84
1355	CGTCCTTCTCGTTGACTGCT	1336
100	TGGAGAGTAGTGAGGCGCAA	81
129	AGTCCAGGTTAAGGTCCTCATCG	107

302	TGTATAGTGTAACACATAACAAGCAAGG	275
266	GGCTCCTCATCGAAGTCCAA	247
230	CTCCAAGCAATATGCCTCTCTG	209
642	GAAGACGTTATTGACGTGGCA	622
2811	TTGCGTCGTATGGAGAGAGGTT	2790
191	TCCGTGTTATTATTGACAGCTTCA	168
137	TCCGTGTTATTATTGACAGCTTCA	114
705	TTCCAATAGCAACTCCACAGG	685
203	GCTGTTGCTATTGTGACATTCC	182
280	AAGTCCACAATAATGATCGGTGA	258
499	CAATAGACACGCCACTCGGA	480
460	CAATAGACACGCCACTCGGA	441
1763	TGGTGGCACAGACACTATCAACA	1741
1740	TGGTGGCACAGACACTATCAACA	1718
840	GAGAGCACTTCGTAGCTGTGG	820
817	GAGAGCACTTCGTAGCTGTGG	797
840	GAGAGCACTTCGTAGCTGTGG	820
817	GAGAGCACTTCGTAGCTGTGG	797
280	ATATCGGCAGTCATTCGCTT	261
159	CGATTGCACCATGACTCGAC	140
1355	TTGGCAGGCGATTGTTCTTG	1336
482	ATTGCGGCGTCATCTTCCTC	463
568	ATCCGCCTCATACTCCAGGA	549
181	CAAGTGCTCAGCACAGCAAT	162
126	GCAGGAGAGGACGAATGAATG	106
447	CGAAGTTGGCTATTGTCCGA	428
482	ATTCGCATCACTCGATCCAC	463
488	ATTCGCATCACTCGATCCAC	469
666	CGTGCTCTTCGGTATTCTCCT	646
666	CGTGCTCTTCGGTATTCTCCT	646
599	CGTGCTCTTCGGTATTCTCCT	579
599	CGTGCTCTTCGGTATTCTCCT	579
206	CCAAGGTAGTTGTCACCAGTAAGAAGT	180
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535	GGAACACGAATTGATGCACACA	514
738	CTCATCGTGGAGAGAGAAGAGG	717
479	CGTAGTCGTAGTCGTCCTTCTCG	457
359	GCCTGTCAACGAGTGCCATA	340
224	TTCGATTGTCCACCGTGCAA	205
723	GGAGATTGTCGAAGACTATTCATGT	698
351	AGTTCAATGATATTCGGATGGTG	329
342	AGTTCAATGATATTCGGATGGTG	320
325	AGTTCAATGATATTCGGATGGTG	303
1318	TTGCCTCGGAATAGATGTCAGA	1297

279	TTGGTTGATCCAGGAGCACA	260
726	CCTCGATTACAAGCTGGACAA	706
152	GCACCAACTCGCGGAGAAGT	133
1032	AATAGTCATCGCAGAGAGCACA	1011
681	GAGCATTGGAGATTCACGCATT	660
146	GAAGTATTGATTGGAACCGAAGA	124
624	TCCACAGTTCTTGCCGATTG	605
491	TCCTCGATCCTCGTCTGATC	472
470	GAGGAGGCGGAGTAGAGGAG	451
2211	GATGATGTGGAGGATGAAGAGG	2190
128	CATCAAGTGTGGTGTCTGGA	109
251	TCCGCATCTTCTTCGCTCAA	232
251	TCCGCATCTTCTTCGCTCAA	232
4060	CGACTTCCTTGACATTCCGATA	4039
496	CAGTACGGTATGATTGAAGAGATACG	471
784	TTGAGCGTTGGTGTGGATA	765
1595	ACGACGAGCTGATCTTGGAG	1576
893	TGTGTATGGATTGTGGCGAGT	873
525	CGAGGCATTGTGAAGTTAGAGAA	503
362	CACAGTTGGTGATCTTGTTC	341
143	CGCTCACTTGTGTTGGTTCC	124
310	CACTCAATCGCCTGGTCACG	291
310	CACTCAATCGCCTGGTCACG	291
321	GAACCTGCTCGTGACCTTGT	302
2090	GGTGTCTCCTCAGCCATCAG	2071
740	CAAGTTCTGATAGGCTCCAAGG	719
1353	TTCATCATAGAAGCAGCAGCAT	1332
1362	TTCATCATAGAAGCAGCAGCAT	1341
563	GGAGATGGACTTGCTGATGTTC	542
275	GGAGATGGACTTGCTGATGTTC	254
680	CATCCATTCTCATCCACAATTG	658
279	CGTGGTAAGGCAGCAATGGA	260
144	CGCTCTCTCATCTCGTCAAGC	124
192	AACACTCTGAATATCCGTCAAGG	170
102	GCCATCAGACTGCGAAGTTC	83
99	AATGGCAGTGCATTGAGAGTT	79
1472	GAAGAAGTGAGAAGTGAACAATCG	1449
573	GGACAGATGCTCCAAGTGATCC	552
130	CGTCGGACAATGGTGGAATC	111
496	CGAAGTGATCAGATGAATGAGC	475
1047	GAGGTGTCCTTGGCGTATGG	1028
1069	CACTGAGCACACCGAGAGCA	1050
624	TCGGTGATGGATTGTTGGCT	605
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624	TCGGTGATGGATTGTTGGCT	605
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191	TGTCGCCAATAGTTGCTCCT	172
141	CTTCTTGGCCTCCTCGAACG	122
693	GAGCCTCTTGTATACGGTGCTT	672
730	GCGGCATCCTGAAGTATTCC	711
230	TCCGCTTCTTGCTTCTCCTC	211
271	CGACTGCGTTGATTGTGTTG	252
246	AAGTGTGAAGTGAGCAGAGATGG	224
775	GCACGCTAATGTTGACTCCAG	755
761	AGATTGTCGTAGGATTGTTGGC	740
2084	GGAACCACTGTAGTAGCCACCTG	2062
587	GAGGTATTCGGTGACATCGC	568
185	TCTGGCAGAGCGTAGGATGA	166
527	CGTGGAAGTCATAGGCGACT	508
619	GTGTGGCGTCAGGTTCAAGT	600
1185	TGGAGGTTGTTCACTACTTGG	1165
293	TGGAGGTTGTTCACTACTTGG	273
1545	TAGGCAACAGGCAATAAGGC	1526
1448	TAGGCAACAGGCAATAAGGC	1429
882	TTGTCCATAGAGCCATTCCG	863
279	GGCAAGGTAGCGGTTGATTG	260
227	GCGGATTATTGCAGCAGATTG	207
224	GCGAATAATTGCAGCAGATTG	204
217	TAGCGGATGATTGCAGCAGA	198
190	TGTTTCAGAACAGGTACTTGACCAA	167
145	GCCATCTTGTTCCAATGTTCA	125
232	TGCTCAGCTCCTTGATGAAGAG	211
189	TCCATCGACGGTGAGGACTG	170
472	AGAGAAGTGATCGGCGGTGT	453
551	AGAGAAGTGATCGGCGGTGT	532
431	GGAATTGTTCACTTGGAGCAG	411
368	TGCTTCATAGTGGCTACACGGT	347
475	CGAGAGTCTTCATAGCTTCATCTGC	451
293	CGAGAGTCTTCATAGCTTCATCTGC	269
166	TTCACAGTGGAGCCAGTGAA	147
486	TGTTGTTAGTGTGCGGTGGCA	467
127	GCAGCTAGCCGGTCTAATACC	107
1003	TGAGAATCACGCATCAGGTTG	983
132	TTGAGAATCACGCATCAGGTTG	111
137	GATGCCAAGCGAGGAACGAC	118
668	AGAAGATTGGAGGCGGAGAA	649
213	AGAAGCCTGACGCACCGAAT	194
605	GCGTCTAGGAGGACGGCTCT	586

133	CAGTTCCTCGAATGGTGGTC	114
272	GGCATATTCTCGTGAGCACTTCG	250
722	TTAAGACAGATGCGACAGTAGGCT	699
631	AATTCTTGATCCGTAGTGTC	610
496	CGGTGGTTATGTTGCTGAGC	477
299	AACAGTGTGACTATGGCTAGAAGTATG	273
2559	TTATGAAGAAGAAGATGTGGATGGC	2535
2559	TTATGAAGAAGAAGATGTGGATGGC	2535
261	GTCGTGATATCCTTCGACTTCC	240
474	GGATGAGCGAGTTCTTGAGTTC	453
471	GGATGAGCGAGTTCTTGAGTTC	450
149	TTGGCTCATATTCCTCCACAA	129
402	TTGGCTCATATTCCTCCACAA	382
567	TTGGAATCGGTGAGTTGAGC	548
184	TGTCAGATGTGATTCCAGCGT	164
1352	ACTACCAGCCATCAACATTACACCTT	1327
146	CCACATCATCTTAGCGTACAGG	125
1226	TCAGTGATGACGTTATCGGTGAGA	1203
360	CGTCTTGATCTCTCCACTTCGTC	337
433	TTGCTGATGAAGTGTTGGCA	414
760	CGTGAGCCAACTGGATTCTC	741
258	CAAGTTAGGAATGGAATCAGGAA	236
109	TCACCTGACTGGATGAAGCC	90
124	CCAAGCCAATGTAGAAGTCCGT	103
1577	TCTCTCATCTCTCGTTCTCTTTCT	1553
1485	CGTCTCTCATCTCTCGTTCTCTC	1463
482	ACAACGATATGATGCTTGAGACG	460
524	ACAACGATATGATGCTTGAGACG	502
193	TCACATTAATCTTCGGCGGAA	173
494	CAGTAGGACGGTGTCAAGGC	475
254	CGGCTGAGTTGTTCCGATAG	235
192	CGGCTGAGTTGTTCCGATAG	173
355	TTCTTGACTGGACGGTAGG	336
235	CCGCTCTGTCGCTAGTGTCC	216
150	CCGCTCTGTCGCTAGTGTCC	131
361	TGGAAGGAGATGATGACGGT	342
113	TCACATTCACAATCATCAAGACAG	90
332	CCGGTCTCATCTTGACTTCCT	312
142	TTGAGAACTGTTCCAGGTGTGAT	120
142	TTGAGAACTGTTCCAGGTGTGAT	120
4118	TCCGACATCTCCTGCTGCTG	4099
782	CCGATTGATTCAATTGGTGGA	763
4124	TCCGACATCTCCTGCTGCTG	4105
2212	CGAACACGAACCAAGGA	2193

438	CTCGAGAATGACACATGGCTT	418
2564	GCGAATAACTGATGAATTGAAGAG	2541
1559	TTGGCTCTGTTCGGAGCAAT	1540
433	AGGCAGAAGTCGTTGGAGCA	414
241	AGAATGTGGTGACGCCTGTG	222
1961	TGTTGTCGGTGAATCGGAAG	1942
352	GACCAGCTACCTCTGCATTATCTAG	328
443	GACCAGCTACCTCTGCATTATCTAG	419
260	GTCGTTCCAGTCACAAGGCT	241
351	GTCGTTCCAGTCACAAGGCT	332
143	TGATGCATTATACTGGTGCTATAGGTG	117
2240	CCACCATTCTTCTTATCACCATT	2217
240	ACAACAGCAGCATCAGCAAC	221
127	CCGACTCTTCGAATCATATGATCT	104
832	TTCGTTTCATGTTGAGAGCAGAC	811
267	AATAGACAAGGAACAAGTACGAGTAGGA	240
793	AATAGACAAGGAACAAGTACGAGTAGGA	766
243	TTCCAGTCACCGATTATCATTG	222
144	GCACTACTGGCGATGGATACTG	123
1342	CCAGATGCTCGTGGTATCCA	1323
365	CGGAATAGTGATGTGAATGGAGAA	342
317	GATTACTCTCGGCTCCATTGTTG	295
317	GATTACTCTCGGCTCCATTGTTG	295
333	TTGATTACTCTCGGCTCCACTGT	311
333	TTGATTACTCTCGGCTCCACTGT	311
1778	GCTCCTCCTCCGAACGAACC	1759
1778	GCTCCTCCTCCGAACGAACC	1759
163	TTGTGATCCTGAAGCTCCGT	144
795	TCCTGGCGATCCTGGAGTTC	776
563	TTCGGCTCCTTCGGTGTCAT	544
480	CTTGTGAAGCAGAATGGTCGA	460
283	ACAGCTTGCAGCGTTGTTC	264
1053	GGTTGCTCGTTCACTTGGAA	1034
1430	GGAATGATGAATAGGTGATGAGG	1408
1430	GGAATGATGAATAGGTGATGAGG	1408
281	CTCTCCTGGCCTCCGAGATC	262
281	CTCTCCTGGCCTCCGAGATC	262
281	CTCTCCTGGCCTCCGAGATC	262
927	GTCGAGCGAATCGAGATCAG	908
133	ATGAGCGTAGTTCGTCCAAGA	113
108	CAATGCCGATGAGACGACCA	89
115	TCGGATGGAGGCAGACTTCA	96
200	TGTGAAGTTGATACGGTTAGTGTTAGG	174
1191	GCATCCTGTTGAGCCAGTTCT	1171

699	CAACTGACAGCATTATTCCACCAA	676
1812	AGCGTCACGGACACTCAGTC	1793
681	AGGTAGGAGCCGTGTGGTGAC	661
675	AGGTAGGAGCCGTGTGGTGAC	655
547	AGGTAACAAGGTAGGTCTCACACG	524
471	CGTCCAATTCTACTTGATTCCATTC	447
591	AACGACGAGTACCGTATGACTGA	569
618	GATCGGAGAAGATCGTCGTACTC	596
5466	GAGATGAGGTAGGCAGAGCAAT	5445
3312	GAGATGAGGTAGGCAGAGCAAT	3291
857	GAGATGAGGTAGGCAGAGCAAT	836
525	GCCGAGGTGTACATCCGAT	506
478	CAGCGTGTTCTCGTGTGGAT	459
489	CGGTGTAGGTGGAGGTTGGT	470
668	TGCCACAAGCCTTTACCAAG	648
489	ACTGATTGCTGCTCCACTCC	470
136	GAGATGGATCAACGCCGAAT	117
1698	AAGCAGGAAGAATGCAGCAA	1679
1007	TCTCTCTTGAAGTGCCTCCAT	987
393	CCATCTCGATTGCCAGGTAGA	373
1109	TCCACACAATAGTCGTGAAGCA	1088
197	GTACAACCGTCTTAACGCCAA	177
542	TTCAGGTACAGCTCCTCGGT	523
600	CAGAAGAGTAATCCGACAAGAATCCA	575
787	CAGAAGAGTAATCCGACAAGAATCCA	762
445	CAGAAGAGTAATCCGACAAGAATCCA	420
445	CAGAAGAGTAATCCGACAAGAATCCA	420
301	GATGACGTGGTGATTATAACAGCT	278
246	AAGTGATAGGTTGTAGACGGCATT	223
246	AAGTGATAGGTTGTAGACGGCATT	223
1614	GCTGCCATTCAACTGCCATA	1595
287	GA CTATGGCGGACCTGTTCA	268
307	GA CTATGGCGGACCTGTTCA	288
734	TCCACCACCGATAACTCCAG	715
416	AGCCGTGGATAAGTAGTAGGTGAC	393
408	TGTTGCCGTGTGTCGTAGAGG	388
408	TGTTGCCGTGTGTCGTAGAGG	388
408	TGTTGCCGTGTGTCGTAGAGG	388
1946	GACATTGGAGAGCCGAGTTG	1927
163	GGCGAACAGAGACTGGAAGACC	142
140	GTGTAGTGCCAGCCTGCCTA	121
171	ATCCACGACGCACTTCCAAT	152
948	CGTGATAGGCGGTGGAAGAG	929
865	TGTTGTGGTGGAAGTTGGATG	845

701	TGTTGTGGTGGGAAGTTGGATG	681
701	TGTTGTGGTGGGAAGTTGGATG	681
1388	AACTGCCTTATTCCGCTTGG	1369
1438	CGTTGTGATGTAAGGATTGGAA	1417
1438	CGTTGTGATGTAAGGATTGGAA	1417
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583	ATGCTCACGGAATGCTGGCT	564
984	TCCAGCAGTGAACCTGTCCTT	964
587	TTGTAGGCACACATTACAGGCT	566
517	CCGAGCAGGTCATCTTGTGTT	497
141	GATGGCTGTCCTTACACTTCGT	120
214	CGATAACGGCGGCTCTCAAG	195
116	TGTGCAGATCTTGAAGGAACCTC	94
2084	GGAGCGAGATGGAGTTGGAG	2065
195	ACATCATCGGTACATTGAAGA	174
237	TACACGAACTTCGCCAGACG	218
158	TTACACTCTTCACAGATACGAACCAA	133
741	CCAGATGGTACATTCTCGGAA	721
752	GGATCATCATTACGGAGATATAACG	728
2279	GAGCCAGTGAGCACGATGAC	2260
1642	CCAATAACTGAACCTCGGCAA	1622
931	GCTATGGTGCA GTTGGAAAT	911
882	AGCAATCAAGCCGTTCCAAT	863
235	CCATGTCTCCAGTGCTCCAA	216
1095	CCGTGATGTTCA GTTCTTCG	1072
1027	AGATACGGATTACACAGTTCAGA	1004
526	TTCGGCATATAACGGATCACTA	505
520	TCGGCATATAACGGATCACTAGC	498
188	TCAGAGCAGACACGACACGA	169
250	TCAGAGCAGACACGACACGA	231
473	CAGCCACCATCATCTTCAAGTG	452
999	ACTCGCTACAATGGTCACAGG	979
161	TTGGATGTGGTGAGCAGGTG	142
1034	CCTTGGAGCATCTTGTCTGG	1015
1047	CACGAAGATCACCAGGAAGTG	1027
131	CCAAGATGATTCCTTATTCTCCA	109
375	AACGATTGCTTGATGGCGAT	356
207	GGCACGCAGAAGACGTTCTC	188
423	CATCCTTGCGACGAGTCTTCT	403
1129	TGAGCATTCCGTCGTAGAGC	1110
1076	TGTCGGTGTACGAGAAGATACG	1055
1099	TGTCGGTGTACGAGAAGATACG	1078
1086	CCTTGGAGCATCTTGTCTGG	1067
343	ATCGTCGTACTGGCGTCGTT	324

330 ATCGTCGTA	311
393 CACCTCCATCCACCTCAAGTC	373
931 AGAGCAATGGTGAATGTTAGCAG	909
574 TTAGTGAAATCGGTAGGATTGGC	552
704 TTAGTGAAATCGGTAGGATTGGC	682
615 AGGAACATTGTGGAGAAGATTAGGATT	589
359 CGATGGCTTGCAGATTGGTT	340
592 TTGTGTCCATTGAGTAATCTACGGTT	567
364 CACTTGTA	344
145 ATCCGACAGCATCTTGGTAGC	125
241 ATCCGACAGCATCTTGGTAGC	221
241 ATCCGACAGCATCTTGGTAGC	221
282 TTCTCCTGTTCTACTTGTAATCTCATG	256
496 CTGAACTGCTGGCTCTGTCG	477
724 CTGAACTGCTGGCTCTGTCG	705
373 CTGAACTGCTGGCTCTGTCG	354
1644 GGAGCCACAGAGTATGCAGGA	1624
1688 GGAGCCACAGAGTATGCAGGA	1668
1696 GGAGCCACAGAGTATGCAGGA	1676
141 GCTCGTTATGAGTACCA	117
482 CGGCTTCTTCGTTGGTGCA	463
208 TGGACTGAGCAGATGTTGAGTT	187
2873 GTGGAGCAACAAGTGGATGG	2854
2873 GTGGAGCAACAAGTGGATGG	2854
252 ATGTCGTCCATTGAGTTGCG	233
103 CCATCACATCGTCCAGAACC	84
3582 TTCGTTGTCCTGCTGATGGC	3563
298 GAACATCTTCGGAATCAATGACG	276
536 GCTCATGGATGGTGGAGTTC	517
292 GCTCATGGATGGTGGAGTTC	273
567 TCTTCTCGTTCGGCACGTTT	548
221 CCGCCGTTGTGTGATAGCAT	202
345 CCAGAATTAAGAGCGGCGTTG	325
157 CGCTGAGTGTCGCTTCTGGA	138
439 GGTGAAGAAGATTCGGACGGA	419
941 ATTACGCCGAGTTGTTGCTG	922
1629 GTCACAGCGTCGTCAACCTT	1610
270 ATTACGCCGAGTTGTTGCTG	251
801 ATTACGCCGAGTTGTTGCTG	782
896 ATTACGCCGAGTTGTTGCTG	877
538 ATTACGCCGAGTTGTTGCTG	519
266 AACATATGTCACAGCGTCGTCA	245
362 CGATTATCATCAAGGTGACCAA	341
469 CTTGCGAGACGATCAGGCTT	450

166	TTGCCTTGGCTATTGTGGTT	147
184	TTGCCTTGGCTATTGTGGTT	165
529	TTGCCTTGGCTATTGTGGTT	510
269	TCAGACCTATCCAGAAGTATCCG	247
699	GCATTCTTCTTCGTGGCTCA	680
699	GCATTCTTCTTCGTGGCTCA	680
251	CAAGGCGAGTGCGGATAAGG	232
753	TTGTCCGTAGATGGCGTTGC	734
225	CACGGAATTCTGGTAACGACAC	204
168	GGCAACTACAATAGCACTGACG	147
137	ACCGTAGTTCTTCGTGTTCAA	116
179	ACCGTAGTTCTTCGTGTTCAA	158
862	GGAGTCCATTCCAAGACGAA	843
1030	TGGTGATGTCTTCCTTCTTGG	1010
634	TCCATTGTAGGTTAGCGTTGTCTT	611
779	CAACACGGAACGAGTAGGCAA	759
409	CAACACGGAACGAGTAGGCAA	389
182	AGTCCACTTGCTGATTGACACA	161
140	CGCTTCTTCTCTCCTGGCTT	121
430	TCGACACTCCACTTGGCGAA	411
282	TGTTGGATAAGCGGCACTTG	263
417	TGTTGGATAAGCGGCACTTG	398
120	CTTCCAGCCGTCTCCGTCAG	101
484	TACGCCACACAGGATACCAA	465
881	AGTCAGACCATGTCATAGGTATCAGG	856
356	CACGGTGATCCGGTGGATAC	337
318	CACGGTGATCCGGTGGATAC	299
268	CACGGTGATCCGGTGGATAC	249
178	CTTCCGTCCGACCGACTCTT	159
125	CCTCAACTCGTGTCAACTATCTCTG	101
129	CGACGACGACGACAACGAGT	110
215	AATCACTGCGAGGTTCTGGTT	195
129	CTGGAAGAAGCTCGGCTCAA	110
155	AATCACTGCGAGGTTCTGGTT	135
188	GCAACCGTAGCTGAGCTTCAC	168
1001	GTACCAGCCGATGACGATGC	982
259	GTACCAGCCGATGACGATGC	240
498	GTACCAGCCGATGACGATGC	479
127	GAATCGCACGACGACTACGC	108
271	TAGCAGCAGACGGTGTCAGC	252
212	CATCGTCATAGGAGAGCTGTTG	191
436	TTATTCCAATGATGAGGACGATG	414
828	AGGACCACAGAACCGCACAC	809
778	AGGACCACAGAACCGCACAC	759

475	TGCTGGAGTTGAACACGGAA	456
713	TGGTGAGCGTAGTCTTCGTGGA	692
164	GCCTAAGCCTAAGCCAAGCT	145
132	TCGACTTAGGCCTTCGCTTA	113
510	CCGAAGCATATCACGAATAAGC	489
497	CCGAAGCATATCACGAATAAGC	476
386	CCGAAGCATATCACGAATAAGC	365
136	TTCGTCGTGTTTCAGGTAGGAA	116
628	TGAGAATGTCCGATGGATGG	609
973	TTCTCGTATTGATAGGATGTGGCT	950
184	CGATGAAGTTGGTGGAGGAC	165
183	CAGGAATGGCTTGAGGTGTC	164
421	CTTCAGAGGTGTCACTGTCGTC	400
500	CTTCAGAGGTGTCACTGTCGTC	479
421	CTTCAGAGGTGTCACTGTCGTC	400
567	AGGCGACGATTCACTCTCAC	548
103	CCGAATTGCTACTCGCTTGT	84
926	ATCCTCCAGAAGCACCACCA	907
541	GGAATTGATCGTCGGTGAAG	522
179	TCCACCTTGTTCTCCAGCATTG	158
1975	CGAGGAATACTTGACGCTTGC	1955
765	CGAGGAATACTTGACGCTTGC	745
383	GGATGGAGTACGCTCGACAA	364
626	GGATGGAGTACGCTCGACAA	607
953	ATTGACGATGCGACTGAAGC	934
932	CCGTCTGTCGTTGTTGTCTCTT	911
193	CACCGGTAGGATCAGAGGTAGAGT	170
344	TTCATCTACACTGTCAGAGAATTGATC	318
711	TGGAGAACTGATGGTGGATGA	691
152	CTTCTTCCGCCGTTACTTCA	133
152	CTTCTTCCGCCGTTACTTCA	133
152	CTTCTTCCGCCGTTACTTCA	133
305	AACAGAGGAGAATGGAGTCAGTG	283
587	CCTGGTTGCTCATCTTCCTTGC	566
363	AACCTTGAACCTGTACTCTGCGA	341
1217	CGTTCAATCATTCGCTCCAT	1198
133	ACAATAAGCACTTCGTCACCACT	111
179	CTACACCAAGAGAGACCACACG	158
902	GACTCATCATCGGTGTCGGA	883
555	GACTCATCATCGGTGTCGGA	536
201	AACGAATGGCTGAAGCGGTT	182
464	CTGACACGCTTCAGACGCTT	445
2650	GGCTTATCGGCTACAATCGTC	2630
2552	GGCTTATCGGCTACAATCGTC	2532

139	CAGTCTCCGCAACAAGTGAA	120
1097	GATTACTGCTCTCGGCGGAT	1078
1099	GATTACTGCTCTCGGCGGAT	1080
940	GATTACTGCTCTCGGCGGAT	921
547	GATTACTGCTCTCGGCGGAT	528
325	ATCAATGGCTCGCTTACGGT	306
325	ATCAATGGCTCGCTTACGGT	306
3004	TTGAGGACACAACCTGGCTGTAC	2983
2935	TTGAGGACACAACCTGGCTGTAC	2914
2368	TTGAGGACACAACCTGGCTGTAC	2347
2368	TTGAGGACACAACCTGGCTGTAC	2347
622	TTGAGGACACAACCTGGCTGTAC	601
622	TTGAGGACACAACCTGGCTGTAC	601
324	CGATGGCTATGGCACGGTAG	305
482	TTGTTGAGACCTAGCGAGAACA	461
972	CGTAGGCTTGATGAATCTGTGA	951
1217	TGGTGGATGTTCAAGGCTGAT	1198
662	TGAGCAGCTTCAACGAATCG	643
458	ACGGATGTTGGCCTTGAAC	439
362	CGTTGTAGTTGTCGTTGGTCATTG	339
1850	CTTGTTGTTGTGGTGGTGGTG	1830
322	ATCACGGCTACGGCTTCTGG	303
1408	CTTGTTGTTGTGGTGGTGGTG	1388
1508	CTTGTTGTTGTGGTGGTGGTG	1488
433	GGTGGTGGAGCAGTTGATTG	414
274	TCATACTCAATAGTCGGAATGACC	251
515	GGCTCACCACATTGCTCCAT	496
620	TGGAGAAGGAAGGCTCGTTC	601
620	TGGAGAAGGAAGGCTCGTTC	601
567	GAATTCTTGTCACATTCATCTCGT	543
567	GAATTCTTGTCACATTCATCTCGT	543
371	GAATTCTTGTCACATTCATCTCGT	347
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462	TGGAGAGTCTCTGCCAACGA	443
462	TGGAGAGTCTCTGCCAACGA	443
651	GCTCATTGTAGTTCAGATTGCGA	629
499	GCTCATTGTAGTTCAGATTGCGA	477
845	CCTGTTGTTGAGACGATGAGC	825
845	CCTGTTGTTGAGACGATGAGC	825
393	TGACGTGGAAGAGCTTGAGC	374
1140	CGGATTATGATTGTGGCGACT	1120
770	CGGATTATGATTGTGGCGACT	750
599	GGTATCTATGCGTGAACACTCCAA	576
374	CCATTCTCATCTACTTCGTCCAT	352

154	GGCGATGGTGAATGTGTTGA	135
194	AGTTGGAGCTTGTGGTGGAG	175
74	CCACAACCAGACGTCAGAAGT	54
153	TTCTCCGTCAGCATCCAAGC	134
273	CACTGACAAGCCATGTGCCA	254
2170	CAACACGTCCGATACGATGTAC	2149
2386	CAGCCGTTGGAGGTGTAGGA	2367
1586	CAGCCGTTGGAGGTGTAGGA	1567
1266	TACCACACAACCGCCGTCAA	1247
989	GGTCCGCTGTGTTCTGTGTC	970
679	GGAGGAATGAGGAGAGCAGTG	659
401	TCTCCATGCGATCCTTCAAC	382
166	GCCAGCAGTGTTGATAGAGTTG	145
264	TCGCCACTTCCTTGACGCTT	245
116	TCGCCACTTCCTTGACGCTT	97
910	CAATTCGGACGGTCTTGTTCA	890
147	TGCAGATAGGTGGACGTAGAGG	126
765	CAGGACGGATTGGAAGAAGA	746
1498	GTCATCATCACAACACCAACCA	1477
791	GTCATCATCACAACACCAACCA	770
1508	GTCATCATCACAACACCAACCA	1487
1319	GTCATCATCACAACACCAACCA	1298
1295	GTCATCATCACAACACCAACCA	1274
1265	GTCATCATCACAACACCAACCA	1244
1241	GTCATCATCACAACACCAACCA	1220
229	GAACGTCGGTGAGAAGTTGG	210
1231	TGATGGTTCTGGTTCTTGCTCT	1210
1231	TGATGGTTCTGGTTCTTGCTCT	1210
912	CCGATTCATTGTGATGTAGATTAGAC	887
285	TCTATTGAATATCAGACGAGGAACG	261
442	AGCACAGCCAACCAACAAGG	423
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312	CTGCTGAGCCATTGAGCTTG	293
241	CGGAGGTGGATACTGTGAGG	222
605	CCGCCGAAGAATGATAGAAC	586
363	TGTAGGCATTGTACTTGTCGGTT	341
484	TGTAGGCATTGTACTTGTCGGTT	462
267	TGTAGGCATTGTACTTGTCGGTT	245
326	GATGAGCAGCGTCTGATGGAT	306
1387	GAAGACTTGATTGGAAGCGTCA	1366
1387	GAAGACTTGATTGGAAGCGTCA	1366
1305	CGGTGAACTTGAACACGGATAC	1284
788	TCCGAACGAGAATCCACTGA	769
192	ACCAACACAATTCGCTCCTC	173

2072	CGATTCCTTCTTGCGTTGAG	2053
2073	CGATTCCTTCTTGCGTTGAG	2054
680	CGATTCCTTCTTGCGTTGAG	661
839	CGATTCCTTCTTGCGTTGAG	820
454	ACTGCTGTCGGTATTCCATTG	434
442	CAATGACGACGATGATGACG	423
461	CAATGACGACGATGATGACG	442
382	AGATGATGGAAGCAATGACACC	361
671	GTTCTTACGGCTCACACTTCG	651
1183	GTGGATGAATCGGTGGATGG	1164
115	CGGTGTGCCAATAGAACTCG	96
762	AGCACTCAGCGGAGACGGAT	743
217	AGCACTCAGCGGAGACGGAT	198
108	AGCACTCAGCGGAGACGGAT	89
670	AGCACTCAGCGGAGACGGAT	651
112	GGAGTGCTGGATGTGCTTGA	93
139	CCTCGTGGAAGTGAATACACATG	117
267	CTTCTCAGCCAACGCCGATC	248
389	CCTCGTGGAAGTGAATACACATG	367
1835	TTGGTGAAGAATGATGGTTGGT	1814
2122	TTGGTGAAGAATGATGGTTGGT	2101
1168	TTGGTGAAGAATGATGGTTGGT	1147
776	CAGAGTTGATGAGTTGGAAGAGC	754
128	ATGACGACGGCGAATACTGC	109
279	TGGAGAGGCTGCTCTACTTGC	259
594	TGGTGGCTGCTGATGTTGCT	575
489	TGGTGGCTGCTGATGTTGCT	470
724	TGGTGGCTGCTGATGTTGCT	705
938	GGTAGCCTCGTAGCCAGTCA	919
374	AGACTCATCGTATTGGCTCACC	353
420	AGACTCATCGTATTGGCTCACC	399
712	TGAAGTCCTAGTTGAAGACACTGC	689
712	TGAAGTCCTAGTTGAAGACACTGC	689
715	GGAGAATGACTGCCGAGAGC	696
517	GTCTTCTGGTCGTGGTGGTT	498
2035	CATGCAGTAGGCGTCCATTG	2016
3421	CTTGGTTCTTCCTCCTTATCACTT	3398
491	GGCGTGATAGGTAGTACGATGGC	469
2216	TGGAGATCAGTGTGTCGGATT	2195
509	TGAATGACGTAGGCGGTTCC	490
4440	GCTGTTGCTGTTGAGTTGGTG	4420
3494	AGCAGCCTTCATTGCGCTA	3475
4527	GCTGTTGCTGTTGAGTTGGTG	4507
4509	GCTGTTGCTGTTGAGTTGGTG	4489

4521	GCTGTTGCTGTTGAGTTGGTG	4501
123	CAGGTCATCTTCGCCGTTGT	104
1645	CGAGTGTAACGCTACGCCAT	1626
1071	TTGGCAGATGTCGTTGAGATGA	1050
302	TCGTCGTCGTCTTCGGTGTT	283
1616	TGTCGGTAGTGGAAGATGGTAGA	1594
310	ATGCGTCAGCTTCATTGTGG	291
720	CACATTCGGAACCTTCTCGT	701
746	CACATTCGGAACCTTCTCGT	727
1073	GAGCGAAGGTTCCGACTAGG	1054
721	CGGAGAGACACAGAGAAGCC	702
151	TCAAGAACCACCACGACCAG	132
182	CAAGAACCACCACGACCAGT	163
965	GCCATCAGCTTCTCCTTCAG	946
539	ATGAGTAGGTAGGCGGTAGGC	519
588	TGATGTGACCAGAAGCAAGGA	568
263	CGACAAGGCGAACATCACTC	244
138	TTCTTCATCGTGTCTCTCCATCC	116
1253	ACATGAGGAATTGCGACTGC	1234
1477	CGAAGAAGAATGACTCCAGCA	1457
558	CATTCTCGGTGCCAGATAGTTG	537
302	GACGGTTCCTTGATGATTGGA	283
436	GCTTGATGGTGACGTGGATG	417
979	CATCACTCACTACGCCTTCCAC	958
388	ACGGTTCAGATGATGATGTTGA	367
552	GGTGAATGGAAGGAGAGGA	533
796	AATAGATAACAATCACGAGCACCATT	771
956	ATGAACTCGTGTGCGCCAAGC	937
1040	GAATTGATCCAGCGAGACGT	1021
141	TGAAGTGTCGGATTCTGTAGGA	121
268	CTAGGAGCACGGAGATGAGC	249
365	AGTGCGTAGATCAGAATAGTGATAAGGA	338
400	TGGAGAATAACGACAGCAAGTG	379
556	AGGAGCAGGTGATGGCGATT	537
508	TTGGAATAAGAAGGCTGGTGCT	487
232	GGTAAGTCCAACCTCATATAGAGCA	208
164	TACAAGGCGAGGCGAAGGTT	145
221	TACAAGGCGAGGCGAAGGTT	202
169	CTCCGATGGCTAGGTACAGG	150
248	TTCCAGCATATTCGTTCAACC	228
244	TTCCAGCATATTCGTTCAACC	224
227	TGAGTCTCCATGAAGGTGGAA	207
308	TGCGTGGCATTGGCAAGTAC	289
340	TTCCATTGATGACATAATAGTACGC	316

168	ATCCATCGGCAAGCAACTCG	149
202	ATCCATCGGCAAGCAACTCG	183
184	ATGTGGCGGCGATGAAGAGT	165
165	GATTATCAGGTGTATTCGCCGAA	143
209	CGGAACAAGCGTGAAGAACA	190
1137	GGTCAGGAACTCGCCATCTC	1118
352	TTGAATCCGAAGGTGCGAAC	333
126	TGCAAGAACTAGGCAATTATGTGA	103
1112	TTGTGGAAGTACTGGAGAAGCA	1091
1833	TTGTGGAAGTACTGGAGAAGCA	1812
417	CGGCTTCGGTTCTCTTCAT	398
1932	TTGTGGAAGTACTGGAGAAGCA	1911
559	CCTCAGTCCAGTGCCTCTTG	537
125	TCCTCTTCAACCGGAGAATG	106
441	CGTGTTTCATCATCGTTCAGG	422
406	CGTGTTTCATCATCGTTCAGG	387
231	AGTTGCTTGTCTCTTGCTAATGC	208
143	GGTCATATTGTCATCACATTGGTT	120
142	CGGTCACGTCGATATCAGAAC	122
378	TGTCATCCGTGCTTGTCTGT	359
447	AAGCCTTGAAGTTGATCCATTG	426
288	TGATGTTGAGCAGTTGATGGC	268
162	CATTCAGGCCACTCGAGGTAA	142
421	TTCCTCGTCATCCATCACTTCC	400
369	TTCCTCGTCATCCATCACTTCC	348
1062	TGTTTCGTGTTGGAGCAGCAT	1043
1107	TGTTTCGTGTTGGAGCAGCAT	1088
97	TGTTTCGTGTTGGAGCAGCAT	78
318	GTGAGTGATGTTGGTGAAGTCG	297
469	AGCACAGCCTTCTCACTCTGA	449
145	TTCATTCCGTCCGTCTCGTA	126
145	CCAACCAATTAGATTAATTGCTGTACC	119
151	AGTTCGCTGCTTGCTCTTCA	132
303	CAGCAGTAGGCAGGCTCGTT	284
216	TGAGTGAAGTGCGTGGAAGG	197
343	TCCTCGACGCTGGTATGCTC	324
126	TGAGTGAAGTGCGTGGAAGG	107
136	TGAGTGAAGTGCGTGGAAGG	117
221	GCTTGTCGCTGAGAGTCGCT	202
197	GCTTGTCGCTGAGAGTCGCT	178
172	GCTTGTCGCTGAGAGTCGCT	153
612	TCAGCGAACAGGTAGTTGCG	593
172	GCTTGTCGCTGAGAGTCGCT	153
126	GCTTGTCGCTGAGAGTCGCT	107

109	GCTTGTCGCTGAGAGTCGCT	90
108	GCTTGTCGCTGAGAGTCGCT	89
202	GCATATTGAATCCGACTGTTGG	181
439	CCTCCGACTTGGTGAACATC	420
1324	GCTTCTGTATCCGGTGTTATCG	1303
1068	GCTTCTGTATCCGGTGTTATCG	1047
996	GCTTCTGTATCCGGTGTTATCG	975
1005	GCTTCTGTATCCGGTGTTATCG	984
1090	GCTTCTGTATCCGGTGTTATCG	1069
1061	GCTTCTGTATCCGGTGTTATCG	1040
1048	GCTTCTGTATCCGGTGTTATCG	1027
1043	GCTTCTGTATCCGGTGTTATCG	1022
213	CGAAGTCCTCCTCAGTGAGC	194
346	TGAGATCGTGGAACATGGAA	327
315	TGAGATCGTGGAACATGGAA	296
438	AGCAATCCTCTCCTCCTCGT	419
207	TGTTAGAACAGACATGGTATTCATTG	182
259	GATTAGGTATAGTCACAATAGCACCATT	232
113	TTAGTCAACTCAATTGTCTCCGATT	89
765	CTTGACGGCAACGGAGCATT	746
300	TCCAGTACAATCCTGTTGATACTCGTA	274
165	TGTTCACTTCCAGTACGGTAGTCC	142
201	TGTTCACTTCCAGTACGGTAGTCC	178
213	TGTTCACTTCCAGTACGGTAGTCC	190
158	TGTTCACTTCCAGTACGGTAGTCC	135
212	TGTTCACTTCCAGTACGGTAGTCC	189
1955	TTCGACCTGGACACCTGCAT	1936
212	TGTTCACTTCCAGTACGGTAGTCC	189
203	TGTTCACTTCCAGTACGGTAGTCC	180
205	TGTTCACTTCCAGTACGGTAGTCC	182
204	TGTTCACTTCCAGTACGGTAGTCC	181
2052	TTCGACCTGGACACCTGCAT	2033
201	TGTTCACTTCCAGTACGGTAGTCC	178
159	TGTTCACTTCCAGTACGGTAGTCC	136
213	TGTTCACTTCCAGTACGGTAGTCC	190
1382	TTCGACCTGGACACCTGCAT	1363
291	TGTTCACTTCCAGTACGGTAGTCC	268
291	TGTTCACTTCCAGTACGGTAGTCC	268
904	CTGCTCGGTGAACATCCATT	885
994	CTGCTCGGTGAACATCCATT	975
1123	CAATCCTTCTCAGCCACAGC	1104
185	TGCCGGATATTCAGCCTCAA	166
171	TCTTGCCGGATATTCAGCCT	152
157	GCTCATCATCCGAATCCAAT	138

814	TTCATATTGGCAAGAATGAGCAA	792
1111	TTCATATTGGCAAGAATGAGCAA	1089
978	TTCATATTGGCAAGAATGAGCAA	956
1183	AGCAGAGCCAGGACAGCATC	1164
1351	AGCAGAGCCAGGACAGCATC	1332
770	GGAATGATTATTGCTGGCGTA	750
221	AACTCTTGACGATTAAGCTCGTCT	198
144	TAACGACGCAGCTGAAGGAT	125
546	TGTGATACGAGATGGTGGAGGT	525
173	TTCTCGTCGGTGAACCTCGTAA	153
496	CTCGCAAGGTTGGAGAGCATT	476
770	GTGGTTGAGCTGGAGGAGGT	751
770	GTGGTTGAGCTGGAGGAGGT	751
205	GCCGTCGAGAACCATCAGTT	186
538	TGCTCCAAGTCTATCGCCAT	519
293	AGCAAGGTTGTCCAGAGAAGG	273
255	GGCTTGTGAGTAGACGGTGAG	235
122	CATGTATAGGCTTGTGAGTAGACGGT	97
161	ATTCGATAGAACGATACCGAGTAAG	137
369	AAGTCGTCACCATCAAGCGT	350
161	ATTCGATAGAACGATACCGAGTAAG	137
741	CGATTGCGAGCGAATAGGTT	722
1051	GGCTTGATGAACCAGAAGACGA	1030
840	GAATCAACGGAGACGAGCAA	821
217	TTGCTATAGATCACATCTCGCATT	194
404	ACTCCGATTCAAGTACTGCTCAG	382
198	GTGGTGAGACAGGCGGTGGT	179
101	GTGGTGAGACAGGCGGTGGT	82
552	TACGTACGATGATGGCGGAT	533
323	GTTGCTATTGGAAGTGGTGGA	303
573	GCATCTCGCATCTCGCAACT	554
469	TGGAGCACAGCGAGAGCACT	450
1409	CCGCCGAGTCATCTTCAGTG	1390
1625	CCGCCGAGTCATCTTCAGTG	1606
635	ACGCTGATAGGCACAATAACG	615
651	ACGCTGATAGGCACAATAACG	631
231	CAGTCCGAATTGTAGAGACTCGT	209
450	CGTTGATAGCTCGAATTGCG	431
764	GCCGTCTCATCTTCCAACCT	745
413	AGACTCCGCAGAGCCAAGGT	394
380	CAATTACGGCCGGATCCACT	361
292	ACTCCTCTGGTGGCAACGAT	273
276	ACTCCTCTGGTGGCAACGAT	257
348	CAGGAGCCAATAATCCAGGAG	328

230	AAGCCGAGTTCTCAGACGAGTT	209
274	GCAATGGCTGTGATGAGACG	255
803	TTGTACATAATGATTATTGGAAGTGTCA	776
273	TTCGCTTGCATATTCTATGGATT	251
225	ATCGATCAGGTCCAATTGAGG	205
172	CATTGCGTGGTTCATCATCA	153
336	CGCTTATCAATGTTCTCCGGTT	315
395	GCATCAATTCGGTTGATGGC	376
909	CAGAAGCCTAAGAGAATCATCAGTG	885
450	GAGGCTCCAACTCGTCACAA	431
450	GAGGCTCCAACTCGTCACAA	431
355	CGAAGAATTGGACAGTGTCTCG	334
1756	GGTGGTAGATTCCGATGCTTC	1736
1990	GGCGTTCTTGTTTCGTCATTCAG	1969
340	CGAGCATTCCGATGATAGAGACG	318
1274	TTGGAAGAAGAGGAGGAATGG	1254
1145	TTGGAAGAAGAGGAGGAATGG	1125
219	TTGGAAGAAGAGGAGGAATGG	199
781	TCTAGAAGTGATGATTCCAGACTCAA	756
825	TCTAGAAGTGATGATTCCAGACTCAA	800
367	CGTCGCTGTGAAGAATGAGA	348
623	TTAGAAGAAGCACCTGATGATGAC	600
623	TTAGAAGAAGCACCTGATGATGAC	600
610	TGGTTCTCGCACGGATAGTTAC	589
610	TGGTTCTCGCACGGATAGTTAC	589
399	GGAAGACGCTGCCATCTGCT	380
316	TCATCATCATCATCGTCATCGT	295
1126	ATGAGCCACGTTTCGAGGACT	1107
305	TCATCATCATCATCGTCATCGT	284
152	TTCAGCACAGCTTCCACTTG	133
361	TCGTCGGATACGGATACGGATA	340
361	TCGTCGGATACGGATACGGATA	340
108	TCCGCAATTACTGACTGTTGG	88
821	GGATGTCATCTGGATTGTTGTG	800
561	GTAGCTTCACCTTCACCGAGTT	540
561	GTAGCTTCACCTTCACCGAGTT	540
269	GTAGCTTCACCTTCACCGAGTT	248
269	GTAGCTTCACCTTCACCGAGTT	248
295	GTAGCTTCACCTTCACCGAGTT	274
295	GTAGCTTCACCTTCACCGAGTT	274
559	AACTCTTGAGCCGTTCCACA	540
559	AACTCTTGAGCCGTTCCACA	540
312	TTGAGGTGGTGGTGGTGGTG	293
390	TTGAGGTGGTGGTGGTGGTG	371

423 TCCTTGACTTGTTCCATTACTTCTG	398
312 TTGAGGTGGTGGTGGTGGTG	293
390 TTGAGGTGGTGGTGGTGGTG	371
399 GCTGCTCCGTGATAACTCTGC	379
285 GCCAGCCTCATAGAATCCGA	266
194 GTCACAAGTTCAAGCACGGTT	174
886 CAATAAGCATTACTGTACTGGATACCA	860
170 GGCTGCTCTGAGTTCTGCGA	151
785 GCCTGATGATGGAATGTCTGA	765
540 GGCTGGAGTTCTCATTGTGG	521
749 GCCAGCCTCATAGAATCCGA	730
132 GGCTGGAGTTCTCATTGTGG	113
152 TCCATTGTGTCTGATGACGTGTC	130
369 AAGAAGCGAGGCGAGCAGTA	350
594 GAGCATAGCTGAACTCTTGCGT	573
1057 CCGTCGAATGCAATATCTCACA	1036
139 GTTCCTTCGCCGCTGACATC	120
135 TTGAACACAAGATACAACCTGAAGC	111
420 TCCACCAGCACGACGACATC	401
361 ACGAATCTCCACAGCGAACA	342
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1271 GGAGGAGGAGCACGACCAGT	1252
134 ACAACAAGTGTCCATTCAACAACA	112
1018 CGGTTACTGCTGCGATTAGAC	998
189 GGTGGAGCAGTCATCTTGGA	170
375 CATGTCGTTGAGAAGGCGAT	356
550 GGCAGCATTCTGATCGTTG	531
1021 TGAATGAGACATGGCAAGTCC	1001
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429 TGCTTCAATACCACCGTTCA	410
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1551 GCGTCGTTGAGCGTAGAAGA	1532
1575 GCGTCGTTGAGCGTAGAAGA	1556
1380 GCGTCGTTGAGCGTAGAAGA	1361
141 GCGTCGTTGAGCGTAGAAGA	122
149 TCTTCTTCCAACGAATAGCCA	129
187 CCATTCCAGTCTCAGTTCGG	168
1174 AGATATCCAGGAGAAGTCGAGGTT	1151
235 CACCAGATGGTCGGTTGAACT	215
339 CACCAAGTACCTTCCGATGC	320
232 CCAATCTCATCTTCTCTCCGA	211
278 CCAATCTCATCTTCTCTCCGA	257

844	GACTACGCAATTGAGTGATAAGCTC	820
507	AGATGCTCCCACTCATCACAA	486
209	TCCTTGGCAGGTTGTGTCAT	190
891	GAAGTCCATCTCTGCGGCTT	872
133	TGGTTCGTTGACATGAGCAG	114
1033	GGTAGAAGTCACTTGCAATAAGACCTC	1007
712	CACGAGACGGTAGCAGAAGAC	692
712	CACGAGACGGTAGCAGAAGAC	692
360	TCCTTATTCATTGCTCCTTGG	339
341	GTTACGGAGCTATCAAGGACT	320
1437	CCTTCACCAGAGATGGAGGA	1418
77	CATTCGGAAGCGGAGTGAGC	58
1008	ATGTGACACTGACATTCCAGAGTT	985
1015	ATGTGACACTGACATTCCAGAGTT	992
1204	ATTGTGCGTGGAAGATTAGGC	1184
1511	GCTGCCACATACGACGAAGG	1492
193	CAGGTTGTATAATGCGTCTGGAGTG	169
515	GAAGAGTGACGCCGAATGAG	496
193	CAGGTTGTATAATGCGTCTGGAGTG	169
609	GACGGACGCTGAGATTACCA	590
129	ATATGGTCTTGGATTGGCTGAT	108
337	GAAGGAGCACACAACGGATT	318
339	GAAGGAGCACACAACGGATT	320
337	GAAGGAGCACACAACGGATT	318
137	CCAGCAGTTCCAGTATCACATTG	115
128	CCAGCAGTTCCAGTATCACATTG	106
127	CGCATACTGTAGATGATGACTCACA	103
971	CCGCTCTGTGAATGCACATG	952
550	AGAAGTTAGGTAGGCTTGCGAA	529
226	CCAATTATGTGTGGTGGTAGTGC	204
224	TGCTCTACCAAGTTGTCGTTCTG	204
461	TTCCATATTCCATAAGTTTCAGGTCA	437
157	TTAGCTGTGCGAGGACTTGACAG	137
551	CCAGGACGGTTGAAGACATC	532
580	CTGTAGACTTGGTTGTCAGTTGATAGG	554
582	GACGAGTAGGTTGTCAGTTGCC	561
582	GAAGATTAGGTTGTCAGTTGCCA	560
1052	TGATAATTCCGACGACATGATC	1031
1006	TTGAGTGTGAATGAATCGGCTT	985
442	TGACGAATACGGAGTTGAAGC	422
735	ATGACGCCAACGAGGAGGAT	716
413	TGATGACCAACAAGAGGAGTGA	392
2212	CTTGAACAGAATAGATGGCGATTG	2189
444	CATCCGATGAATCCGCACAC	425

202	ATACCAACGATAGAGAGGATGTGC	179
1554	GAATGAGGAATAGGAGAAGCGA	1533
417	TTGGCGTGGCTTGTCTCTTC	398
1238	GCGGCTTGATAGATGGCTTG	1219
417	TTGGCGTGGCTTGTCTCTTC	398
188	CGAACACAGCTTGGTCGGTA	169
303	CACGAGCCGACACGATAAGC	284
149	TCGCAATCATTACCATAATATAATCG	124
447	AATGCTGGCTGCTGCTTCAC	428
1051	CCGTGGTGACACTGTGTCTTGT	1030
420	GTTCTGAACTAGGATACTGGAGCGA	396
314	TGTACGAAGATTCGCCGTTG	295
329	GCTAGGCATTCGGA CTGTAGT	308
147	CGGCTATATTCTCCAGTTCCAC	126
585	TCACATTCACCACACACCAGA	565
408	CTACGCTGCTTCTGCTCTCC	389
585	TCACATTCACCACACACCAGA	565
585	TCACATTCACCACACACCAGA	565
661	TCACATTCACCACACACCAGA	641
555	TCACATTCACCACACACCAGA	535
212	AATGTGTCTTCGTCGACTTCACG	190
264	AATGTGTCTTCGTCGACTTCACG	242
115	GCCGACGCTGTTGTTGGTAA	96
118	GCCGACGCTGTTGTTGGTAA	99
637	CGTCACCAACCATCACAACTG	617
379	CGTCACCAACCATCACAACTG	359
691	CGCAGGTGACGAGTGGTAGT	672
109	TCAGCATCAACTCCGACAGC	90
114	TGATCGTGGTTGGTTGAGGTG	94
114	TGATCGTGGTTGGTTGAGGTG	94
1133	ACATGAAGAAGTAGATCAACTCCGAA	1108
862	CTGATTCAAGTGCTGACATACATTC	838
874	CTGATTCAAGTGCTGACATACATTC	850
324	TCTGGACGAGGAATCTGCTT	305
122	AACACATATGAACGATTGTTGGAA	99
196	CTGAGACGTTACCGATTTCG	177
238	CTGAGACGTTACCGATTTCG	219
417	AGCTAATTCGTATGACCTTCGG	396
479	GCTGTTGGTGGTAAGCATACTAGA	456
164	ATAATCACCAGCCAGCCAAG	145
81	TTCCAACACATTCAGCAATCAGA	59
78	TTCCAACACATTCAGCAATCAGA	56
266	CAAGTGTATTGAGAGCTTGCACA	244
318	AATGTCTCGTCCGATGTTTAC	298

623	GAATTGAAGGCACGGCACAC	604
432	TTCTTCTGCTTCGATTGCTCTC	411
465	TTCTTCTGCTTCGATTGCTCTC	444
463	TTCTTCTGCTTCGATTGCTCTC	442
480	TTCTTCTGCTTCGATTGCTCTC	459
549	TTGGTTGCGACACACACATCA	529
145	CAATCAGATCTTATCGTTATGATGAAG	119
260	CGATATACCGCTTATTCGTCTCG	238
650	GGAGCCATTGTTGTTGAGAT	630
650	GGAGCCATTGTTGTTGAGAT	630
468	GTCAATTCCTCAACCATCGC	449
489	AAGGCTGATGGCTAGAAGATGA	468
900	GAGTTGAGTTGGAGCTAACACTACC	876
154	CAACTCCGTGCTCATTATTCG	134
425	GCTCCGCTCGTCTTGAAGGT	406
421	GATTCTCCGCCGAATGTGTT	402
724	TGCATCCATCAATTCTACGCT	704
462	CATTGATTGCCGAGGAAGTGA	442
631	CGACCGCACACTTAGTGACTT	611
129	GTAGTCTTCAACTTCAACTTCACCTG	104
605	CGGATTGCTACTTCTCTGTCGTT	583
605	CGGATTGCTACTTCTCTGTCGTT	583
246	TGGCATCAACGACATTGGTT	227
516	CTTCGTCTCCATTGTTAGCCA	496
282	ATGATTGATGGCTGTAGATGACAT	259
193	TTCGTGTGAGGTGTCCAAGC	174
699	TGCTGCTGGCCGATAGAGAT	680
141	TTAGTTCGATGGCAAGACGTT	121
477	GACTTCTTGGAGGAATAGGATGTC	454
234	GTGAAGAGCCAGCAGGAGGT	215
323	GTGAAGAGCCAGCAGGAGGT	304
1237	TGGCACGAGAATACACGCTT	1218
1308	TGGCACGAGAATACACGCTT	1289
1237	TGGCACGAGAATACACGCTT	1218
1308	TGGCACGAGAATACACGCTT	1289
209	ACTCGCTCAACTCCGTGCTC	190
628	GAGCAATCCGAACACAACGAC	608
206	AGCTCACAGTGTTGGTAGGCA	186
265	AAGGAGCTTCAGATCCTCTGG	245
292	TTGGTGACGAATCGGAGGAG	273
145	TAATTGCTCACCGGAACCAG	126
1311	TTGATTAGAAGTAGCTGGAGGCTT	1288
1657	CATCAATAGAATCCAGTCCAGGTA	1634
1463	CATTCCACAGAACCTGCCAA	1444

1600	TATCGGCACTGTCTGACGCA	1581
1657	CATCAATAGAATCCAGTCCAGGTA	1634
1008	TGAATGTTGTCCAGTTGTCCA	988
338	GCGATTCTCCTGTCCACTTCA	318
349	TTGGAGTATTGTGGTGGAAGG	329
193	GCACTTCCACAATGATATTATTCGTC	168
147	GCACTTCCACAATGATATTATTCGTC	122
207	CGATGTGCTCCAGAAGATCC	188
729	GGA CTCCACACGACAGGTCA	710
158	TGTGGTCCGTGTCTGCTCTT	139
808	GGA CTCCACACGACAGGTCA	789
409	CCATCGGTTACTCGCTGTTG	390
145	TCTCACAGATCGCATCGTCA	126
1078	GCCGATACGATGGATGTAGAGC	1057
702	GCCGATACGATGGATGTAGAGC	681
437	GCAATCCTCATCGTAGGCACA	417
237	GCAATCCTCATCGTAGGCACA	217
602	CGTGTTGAAGGACCGAATGG	583
602	CGTGTTGAAGGACCGAATGG	583
649	CATCTGCTCCTCAGCTTCGT	630
645	TTCGGAGGTGTCACTGTTGC	626
126	CAACACTTATGCCGAGGACAG	106
229	GTTGTTGCCGAATGCGAATC	210
191	CTGCTGATGAGGACGACGAG	172
210	GTTGTTGCCGAATGCGAATC	191
1604	TTGACAGTAATGGATTACGGA	1583
1604	TTGACAGTAATGGATTACGGA	1583
1610	TTGACAGTAATGGATTACGGA	1589
1592	TTGACAGTAATGGATTACGGA	1571
771	ACAGACAGCCTGTACGAGTCG	751
605	ACAGACAGCCTGTACGAGTCG	585
921	GAGTGGTGGTGTCTGCTGGTG	902
825	GCTCATCGGTGACTGGTTCC	806
634	GCTCATCGGTGACTGGTTCC	615
784	GCTCATCGGTGACTGGTTCC	765
273	GTTGAGATGGCGAGAAGCAC	254
160	AGATGGCGAGAAGCACGAAG	141
471	TTGATCGGTACATCCAAGATAGG	449
379	TTGATCGGTACATCCAAGATAGG	357
396	GTTGGCACTTCCGATTCCAG	377
634	CGTCACTCAAGCCACCGATT	615
491	CGTCACTCAAGCCACCGATT	472
533	CGTCACTCAAGCCACCGATT	514
676	CGTCACTCAAGCCACCGATT	657

634	CGTCACTCAAGCCACCGATT	615
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2533	TCACGACGAGCAGGATGGTT	2514
902	GCCATTGTTCGTGTGCTTCA	883
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293	GCCATTGTTCGTGTGCTTCA	274
185	GTTCTTCTGCTGCTGCTGCT	166
323	GCCATTGTTCGTGTGCTTCA	304
185	GTTCTTCTGCTGCTGCTGCT	166
158	ATCTCCAAGTCCAGCAGCCT	139
158	ATCTCCAAGTCCAGCAGCCT	139
96	ATCTCCAAGTCCAGCAGCCT	77
123	GGCATTGACGATGTCATTGTC	103
1007	CTCGTCTCCTTCCTCATCGG	988
1187	CTCGTCTCCTTCCTCATCGG	1168
1235	GATGGCGTTGAAGCGTCCTC	1216
286	TTCTTGCTGTCAGCGTTCAG	267
385	CGATCTTCTTCCACTTGGTACG	364
278	GGAATCACCTCTTGACTGTTATTGG	254
376	AGCATCGTGAAGCTCGTCTC	357
220	AGCATCGTGAAGCTCGTCTC	201
603	CGGCTTCTTGAGCGTGTT	584
1918	TTCGGTAGTAGAAGATCCATCGA	1896
142	GGTGAGAGGCTTCAGGTCCAA	122
214	GGTGAGAGGCTTCAGGTCCAA	194
157	CCTGTTGTAACGTGTCATTGATGTT	132
750	AATCTCGTTGATGATGAGTACCG	728
198	GGACGTTGTTGAGCGGTGAA	179
295	GGAATGAGCCAATGTTGTTGA	275
257	CAGCCGTCTTCGTGCTATCG	238
626	TGAATTGTCGTGCTGAACTCG	606
489	ATGAAGGAGTTCGGCGGATG	470
422	CTTCTTGATGCGAGGACTACG	402
467	GAGAAGAATAGCATCATACAGAGGAA	442
347	TCGGAGGCTTGAGGAAGGAT	328
2354	CATTGACGCCATTGTTGCCT	2335
548	GTAGTCACTGTCTCAGCCACCA	527
1405	CAGTAGAAGCCGAAGACGATGA	1384
468	GAGCTTCCTGCCAAGTTCCA	449
316	GTCCGACGAGTTGCATTATGC	296
541	TCCATCGCAGGTGTAGAACG	522
179	CACAACGATCCAAGCAGACG	160
181	CACAACGATCCAAGCAGACG	162
760	GTTGAATGTAGGATTCCACAAGTGT	736

778 GTTGAATGTAGGATTCCACAAGTGT	754
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460 CCTGAGCATCCATGTGGCAA	441
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587 GCGTTCATTGTGTATGATTCCGG	566
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251 CGTCGTTCACTCCTCGCTCAA	232
358 TGTGACAATGTGACGGAGAATC	337
554 TGTGACAATGTGACGGAGAATC	533
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684 TTCAATGCCAAGAGAGTGTGC	664
193 CCGTTGACTATCCGTGGCAGA	173
574 TCACGGAGAATGGATTGTCA	555

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126	TGCGGTCATCAAGTCCTCAA		107
96	ACCATACAGTACTCCGAATGGAA		74
468	TGTGGAGGTTGAGTTGATTACGG		446
719	GCAGTCATCTCAGCATACGCA		699
368	GCAGTCATCTCAGCATACGCA		348
201	TGACAGTATTGAAGCCAACGGT		180
897	TTCCGTGTAGTGCTCCGATT		878
897	TTCCGTGTAGTGCTCCGATT		878
720	ATGAGTTCCGATTCCAGGTG		701
240	CATACATTGAAGAGCGGAGAGAA		218
605	ATTATGTGAAGGAGACCAACTCG		583
2152	AACTTCCGCATCCTGAGCAT		2133
341	TCCATTCCACTTGGTTCGTT		322
316	CCGCAGACTACGCATACCAG		297
243	CCGCAGACTACGCATACCAG		224
1245	GCACAACGTGTAGGACCTCCA		1225
1162	GGAGAGATGCCAGATTGAGGA		1142
1153	GGAGAGATGCCAGATTGAGGA		1133
230	ATCTCCGAGGAATCCAGCTT		211
221	ATCTCCGAGGAATCCAGCTT		202
803	GGATTGCCAGAGTCAGAACTG		783
410	GCAACCATTCTCGTAGCGTT		391
379	CGCTCGTAGTAATAATCCTCGATT		356
464	GCTTGGTGTGTTGTCATCGGT		444
1901	GTTACAAGGCATTGTCTGGATGT		1880
312	TCGTCTGCATCTCCGTCTCC		293
1532	GCGTGGAGATTCTGGAGATTAGAG		1510
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336	TCTGTCTTCCACGATCATCATC		315
1833	TGATGATGTGTCATGGTGGTG		1813
1449	CAGGATGAACTCAACCACTGC		1429
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1509	CAGGATGAACTCAACCACTGC		1489
1671	TGATGATGTGTCATGGTGGTG		1651
1287	CAGGATGAACTCAACCACTGC		1267
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1522	TGATGATGTGTCATGGTGGTG		1502
1138	CAGGATGAACTCAACCACTGC		1118
1557	TGATGATGTGTCATGGTGGTG		1537
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420 CAGGATGAACTCAACCACTGC	400
407 TGATGATGTGTCATGGTGGTG	387
171 CGGAGTCACAGTTCCAGACG	152
488 CTGCGAGTTGTAGTTGTAGGTT	465
135 GAAGTGATGAGATGCGAAGAGTAGG	111
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314 GTGGTGATGGTGGCAAGGAG	295
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359 GCCGATTGCCTGAACTTCCA	340
141 TTGGAAGTTCAGGCAATCGG	122
175 CAAGGACACAGTAATACGATTATGCTAA	148
124 GGATGTAGGTAGGCAAGCATAGGC	101
147 TGCCTATCTGTGTGCCTACCA	127
262 CACGACATACTTCTGCTTCTGC	241
252 GAATGAGGTGCCTTCTTGTAGC	231
140 CAGAGTCAATGGTGGAATGTATAGG	116
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8355 GAACTTGACTGGCACGGATG	8336
8361 GAACTTGACTGGCACGGATG	8342
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8361	GAAGTGGACTGGCACGGATG	8342
8364	GAAGTGGACTGGCACGGATG	8345
8370	GAAGTGGACTGGCACGGATG	8351
470	GCGAGGTACTCTGCTGATTCCA	449
409	TGCTGTGGTTGCTGTTGTTG	390
158	TGGCTTCCTTAGCATCAGTTG	138
2905	GGAGGACTGGAGACGGCTAT	2886
3003	GGAGGACTGGAGACGGCTAT	2984
521	GGCACATCGGAATCTCACTT	502
521	GGCACATCGGAATCTCACTT	502
1148	CCACTCAATGAGACGATCTCCT	1127
722	TCGCTTCCAATCTGTATCGC	703
167	TCTCCTCGTTGTTCTGGCA	148
591	GCTGCCTCTATATTGACTTGTGG	569
293	GGCTCTTGTCTGGCTGATG	274
752	TTGTGATGCTTCTGGACGGA	733
856	ACTTCCTCTACTTCACCATTGCTT	833
856	ACTTCCTCTACTTCACCATTGCTT	833
752	TTGTGATGCTTCTGGACGGA	733
422	GGCTAAGTGGTGGAAAGTGA	403
1057	GGTCCACTCATATCGTTCTCCA	1036
1072	GGTCCACTCATATCGTTCTCCA	1051
658	AGTTGGAGACTGGCGTGTAGA	638
549	AATCCTTATCCTGAATCCACACG	527
269	GTAGTTGCTGCTGGTGCCTT	250
212	GTAGTTGCTGCTGGTGCCTT	193
785	ACATAGAAGAGAAGTTACCGCCAT	762
411	CCACACAACACCACAACAGACT	390
172	TGTGGAATAGTTGAAGAATAGGCA	149
767	AATGAATTGACAGGCACCACA	747
195	CTGAAGTCCACTAACGACTGCTC	173
219	CGCATCGTACTGAGTTATACCG	198
392	AGATACGGAGCAGTATATGTAGGAGAA	366
156	TACTGGCGTGGATTGGAAGC	137
344	TGCTCATCACATTGACACACG	324
901	GTGGCGGTCTCCTCTTCATC	882
290	AATGAGCATATTGCCATCCATAG	268
2987	AGAGATTCCAGTGATGTTGATGTGA	2963
2426	AGAGATTCCAGTGATGTTGATGTGA	2402
1498	AGAGATTCCAGTGATGTTGATGTGA	1474
315	AGAGATTCCAGTGATGTTGATGTGA	291
289	CTTCTTGGAAGTCTTGCTTCTCG	268
289	CTTCTTGGAAGTCTTGCTTCTCG	268

289	CTTCTTGGA	268
2895	ATAGATTCCGACAGCAACGC	2876
2844	ATAGATTCCGACAGCAACGC	2825
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617	TGAACGAGACGACGCAAGTG	598
138	TGAACGAGACGACGCAAGTG	119
137	TGAACGAGACGACGCAAGTG	118
299	TTCAATGTTACGCTCGCCTT	280
489	TTCAATGTTACGCTCGCCTT	470
362	TCTTCTTCGGAGCCAACATCG	342
205	GGCGTCCTTGTTGAGATTGG	186
416	CCAATCCGTGGTGACACTGG	397
822	GCAATCGGCATCAACAGGCT	803
264	TGGATTCATTCTACGTTCAAG	243
182	TGAATATGACGACGATTACGGA	161
405	TCGCAGCACTGAGAGGAGTC	386
1617	CGTCATCTCCAATGGTTCCG	1598
215	TATCGTCTCCAGCAGCACGT	196
397	CGATCTCTCATTGTTGTGAGTGAA	373
754	CGTCATCTCCAATGGTTCCG	735
450	CGAGCAGTGGCAAGAATGAC	431
279	AATCACCATCACCAACCGTT	260
322	AATCACCATCACCAACCGTT	303
476	CGAGCAGTGGCAAGAATGAC	457
966	TGTGGTTGTTGTGGTAGTTGGA	945
854	CGAGGATACAGAGTGAGCGAA	834
494	CGAGGATACAGAGTGAGCGAA	474
475	CGAGGATACAGAGTGAGCGAA	455
125	GGCGGCATCATATAGCACATTG	104
201	CACGATCCTTGTTTCATGGTGA	181
425	ACAACCGACAAGAGCTGCTG	406
532	GAACAAGAAGGTGAAGGTATCGC	510
139	ACTTGTGCTGCGTGGACTCA	120
134	CACGTCACTTGTAGTGTTTCGGA	113
279	ACAACAGTAGACCATATTGGAGAATG	254
97	GGAGCAACGAGTGGAAGATG	78
112	GCCAGCTCCGTAGAGTTCAC	93
151	AATCTGCTCACAACCTGACTTCCTT	128
157	AATCTGCTCACAACCTGACTTCCTT	134
151	AATCTGCTCACAACCTGACTTCCTT	128
104	GCCAGCTCCGTAGAGTTCAC	85

157 AATCTGCTCACAACCTGACTTCCTT	134
151 TGTTGTCAATTGTTGCTCCATT	130
411 GAATCACCACAACGCACAAG	392
466 GTTGGCGAATGTGGAGGAAT	447
166 GCATAGTCATTCTGCTCAA	146
600 TGTTATCATCATCCACTTATTAACCTGC	573
447 TGTTATCATCATCCACTTATTAACCTGC	420
331 GCTTGAGGCGTTCAACATGA	312
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686 GGTATCATCTTCCTCTCTCCGA	664
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2246 CCGAGCCTGGTGTATCTTGT	2227
965 CAGAGCGTTGAGTTGTCGGT	946
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239 GGCTCGGTGTTCCAACGTG	220
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267 CGAGAATGTGGCGAAGGATA	248
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793 CCATTGTTGAGCCATTCTGTC	773
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119 GCATATCGACGGAACCAATG	100
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2411	GAGGATGGAGGAGCTGGTAGG	2391
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309	TCTGCTCTTGTTAGAAGCTCCTCT	286
543	CAATGCGAATTGAGTATAATGAGC	520
1116	CTTGTGAGCCAGTGTTGTGC	1097
129	CTTGTGAGCCAGTGTTGTGC	110
227	TTCCGTCACCATCAGGTCCT	208
248	CACCGTACACACGACGAAGG	229
1324	GGTAGAGTCCGTTATTGAATCGTT	1301
753	GCTTATGGATTCTCGTGATGC	733
303	TCTGAGTTCTCCAGTAGGATTCG	281
636	GACAACCAGAGTTCGGAAGAGC	615
325	GCAGAGAGAGCATCATTCCG	306
1309	ACTCGTGCTGGTTACTGATAAGG	1287
1035	CCAATGTATAATAGGCTTCTTGTC	1011
365	CGGTTGTAGCGCTCTTCGAA	346
639	GGCACTATCGAAGCTTCCAC	620
556	CGGCAGTGGCTAGTAGAGATTG	535
651	TGGTCGTCCTCATCACATAGC	631
337	GAGAAGCATTCCAGTGATAACCA	315
396	CGATTGTATGCGTTAATGACTTCA	373
81	TTGAGACTGGTCGGCAGAGC	62
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217	GGCATTGTGTTGGAAGTGTTGTC	195
148	CTCGCTGGCATCCTAGAGAG	129
648	AATTGGAAGAGCTTGATCATCAC	626
311	CAGAAGACTTCCGAACGAACA	291
342	TTGAACCAGGAAGAACAGCAT	322
1120	CGAGTCAGGATTCAAGAAGTCTACTAC	1094
158	CAAGTGTGGTGCTCCTGTGA	139
2556	AGAGCAACAGTTCGCAGTT	2537
495	GAAGCCGTTGTAGTTGTTGGA	475
1107	TGCTGCATTCTCATCATCTTCA	1086
393	CGAAGAATAGCAATACGGCAACT	371
565	CGGTACTCGAGGATTGGCTCA	545
516	CGGTACTCGAGGATTGGCTCA	496
468	TTGGAGCAGGCACGAATGTC	449
1105	GTATTACTTGTTCCGGCAGACTCCT	1082
149	TCGACGAACATCAGTCAGGTT	129
3106	AGGATCGGAGACGTTGATGG	3087
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196 AGGTGTAGTGTCTCCGAAGCC	176
122 GATGCTGATGTTGTATTGTTCTC	99
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429 TGTTGCAGCTAAGGAAGACTCTT	407
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194 CACCGTGCTCATCAACTTCC	175
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207 GGAGGATGAGTGTTGAGAGGATA	185
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414 ACGAGGAAGTTGATGGAGAGG	394
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538	ACGAGGAAGTTGATGGAGAGG	518
419	ACGAGGAAGTTGATGGAGAGG	399
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515	CTCCATCATCAGGTTCTCGGT	495
596	GATACAGGAACCGATTACATAGCCA	572
2685	GTTCAACCATCTTCTCCGACAA	2665
635	GACACATCCTTCTTCACTGACACA	612
123	CGATAACATTGTTACGCACCAC	102
655	TGTTCGGATAGCGGTTGAGA	636
140	GCATTGTTCTTGGATTCTTCAGA	118
336	GGATTCTGGTGTACCGACGA	317
446	ATGTCAGTTGGCGGAGAGCA	427
937	GCAGAATGTAGTTGTCTGGTGGA	916
745	CGATGAAGTGAGTTGGAAGCC	725
1828	TGTTGAGAGAATCCGACCTGA	1808
1176	TGTTGAGAGAATCCGACCTGA	1156
469	TAGTCCACGTAACGGAAGCG	450
458	TAGTCCACGTAACGGAAGCG	439
129	TGGTGAGATCATCGTCTTCTTGC	107
1038	GCATCCACATCCAACACACA	1019
326	TGCTCGTGACGAGAGATTCTG	307
1284	CAGGATTAGTGGAGTTGTGGTAGATG	1259
248	AGGTTACGAGCAGCCACCAG	229
123	CGATGCCAAGTAATCAAGAGTG	102
124	TCGCACATACCTAATTACAGGTGT	101
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507	TTGTTCAAGCAGCCTGGTCAC	488
459	TTGTTCAAGCAGCCTGGTCAC	440
125	GGTCGGTTGGTGTGAAGCAT	106
331	CCTGTGTGAGACGGATGAAGC	311
490	TCCGCACAGAACACTTCACTT	470
557	TGCTGCTTGACTAACGCTT	538
126	TATGCACTTGAGACATACGGAGA	104
221	GCTCCGACCATCTCCTCCTA	202
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266	TCTTCCTTGTTGCTTGATTCTG	246
235	TGACAGTCATGCCGAGGTTG	216
190	TGACAGTCATGCCGAGGTTG	171
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125 GCACCAGATTCCATTGAGCA	106
122 ACGACGTCGTGGTGTGGAAC	103
256 CGACGGAACAAGAGAATGTGC	236
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447 CCAGGCAATTGTCAGACACTT	427
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203	ACCATCGGATCGTATTCTCG	184
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242	CGGACGGAAGTGTCTGCTGA	223
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393	CAAGAAGAGCCACACGAGCA	374
141	TACGGAATACCTTGGAACGC	122
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232	CACGCTGTGTCAGTTGAGAGTAG	210
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369	CGAGATTGTTCCAGCGAGTG	350
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476	TGGACGGTTGAAGTGTGGC	457
985	AGACTGATGAATGTGAAGTAGAATGC	960
382	GATGTCTGATTCGGTTCTCGTG	361
309	TGGCGCATTGTCGATATCTTC	289
309	TGGCGCATTGTCGATATCTTC	289
821	GTTCGCCATTCAACATTGTC	802
154	TCAGAGTGAAGAGGATAATAGAATTGAG	127
194	TCACACACACGGCAGAGAACT	174
207	GATATAGTTGTCGGTGACGTTGAC	184
387	GAAGAAGAACTTGAGAGAATGAACG	363
212	GTAGTAGGCGAAGCATTGACG	192
297	GTAGTAGGCGAAGCATTGACG	277
230	ATGAAGATCACCGCGTAGCC	211
117	CTTGAGTTCCTCCGCTCTGA	98
154	CTGATTCGCTGCTGATACGG	135
261	AGCAATCCAACATCCATCCG	242
1081	CGCTCCAATGACAATAGATCCACA	1058
172	CTTCTTCGACAACTGGCTCAG	152
143	GCAGTTAGAGTGAAGAGGATAATGGA	118
251	ACACGCTTGTCGAACCACAT	232
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257	CAGCAGACATCATCCTTCGG	238
210	GGCACTTGCTGTATAGTCACAGTAAG	185
670	CGAGAGGAGAACTGGTACAGACGA	647
149	AGCATGAAGAAGTGAATTATATCGC	125
219	AGCATGAAGAAGTGAATTATATCGC	195
709	GCTCGGTGCTGGAGTTCAAG	690
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339	CGGCTCGCTCATATTCTTGC	320
114	TGATAGTTGTCTTGTTGCATGGTT	91
246	ACATACACGCTCCACTCGCT	227
309	GCTCCGTCGTAGCTTCAACA	290
327	CTCGGTAGACCACGGAATCC	308
214	GTCTGGAGCCTCGTGTGTCG	195
216	CTCAGCGGCAGAGATGAAGC	197
345	CGTACACAGAGCTCGTTGCA	326
178	AACTGCTCAGACTGGCTTGAAGTC	155
506	ACAAGAGCTTCAAGCTTGCG	487
313	TGAAGATACAGGACGAGAAGAAGCA	289
2103	TCATCGGAGCCATCAAGAGA	2084
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1552	ATCTCCTCGTGACGCTCGCT	1533
1173	TTGACCATCGCCAGAAGTGT	1154
445	TGGATGGAGTCGCTGAGGAG	426
276	AATATGAAGTCGGCCTCCGA	257
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151	CATGGCGGATGTCGCTGTAC	132
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181	CGTGTTCCTTGACCGACTCCTT	161
846	TGTTCAAGTTCAGTTCCGTCCT	825
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997	AGTCGCTGGAAGTGGTGGAT	978
476	AGTCGCTGGAAGTGGTGGAT	457
284	AGTCGCTGGAAGTGGTGGAT	265
178	TTACAAGCAACGCAGCAATG	159
176	CCAAGCGAATAAGCACCTGT	157
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128	CTTCTTCACCGATGAATTGCA	108
279	TGATGTTGGCTCACTCGGT	260
160	CGATAGCTTCTTCCAATCTTCGG	138
487	ACGACATACTGCCATACGATACG	465
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227	ACGACATACTGCCATACGATACG	205
393	TGCTGTTGGATGTTGGTGAG	374
221	TGCTGTTGGATGTTGGTGAG	202
761	GACGAACACAGGCAGCGATT	742
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131	GAGCATCTTCAATACCAAGTTG	109
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737	GCATCATAAGGAAGACCACGCA	716
123	TTGTAGACCATCGGAAGTGTGA	102
121	CAGATGCTAGTGATGCGGAGA	101
681	TGCTGTCTCAATATGTTGACGATC	658
365	GCACTACCAATTCCAGTAGAGTATCC	340

1210	CACATGACTAGCGTACTTCTCCTG	1187
449	CCAACCAACATTCCAGGCAA	430
189	AAGCATTGAGATTATATCGGCAA	167
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1082	ACCACGGTAATGAGAATCACG	1062
876	AACAGCCTCGGAAGTTGGAG	857
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301	CAATCCAACAATCTCCACCTCT	280
267	TTGTCTAATTGTGTTGTAGATGATGTG	241
501	GACTGGAGCCTGGATTCTGG	482
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919	TCAATATCGTCTTCTTCGTAGTCG	896
439	GACTGGAGCCTGGATTCTGG	420
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209	GCCTTCTTCTCTCCTGTAGCAG	188
1394	AATCGTCTCGTTCACCAGAGTT	1373
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718	TTCTTCTTCTACCAAGTGGTCGTT	695
726	GCCTCCTCGCCAGTAGTGAT	707
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145	CAGCAACAGAGATGAAGCCA	126
304	AGCCTCTTAGCGACAACATAGC	283
323	CACACACCACTTCACCAATCC	303
1244	GGCTACAGTCTCATCTTGGCTAA	1222
556	ATGCGATCATAGAGTATCTTGGC	534

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799	TTGTTCCATACTTCTGACATCTCTG	775
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804	TTCGTTGGTGCGGTCTTCAG	785
970	GTGCATTGTTCTTACAACACATTG	947
581	TTCCACCGTAACGATCCATC	562
1217	TCTCCATGATTCTTCGCCAT	1198
346	TGCTTGTAGATGTATGGAATCGT	323
171	TTCATACCATTGCGCGTGAT	152
254	TCATCTCCTCCTCCGCCAAT	235
249	TCATCTCCTCCTCCGCCAAT	230
1025	TTGAGCAGCTTCTCCTCGTC	1006
185	GTTGATTCAGCACCGCAGTT	166
185	GTTGATTCAGCACCGCAGTT	166
185	GTTGATTCAGCACCGCAGTT	166
357	TGTCGGAATAGTTGCACAGTCT	336
357	TGTCGGAATAGTTGCACAGTCT	336
357	TGTCGGAATAGTTGCACAGTCT	336
330	ACTGTCGTCCTCAGCGTTCA	311
282	CCGAATAGCAGAGAAGTGAGAGG	260
282	CCGAATAGCAGAGAAGTGAGAGG	260
787	CACTGATTCCGCCGAAGATC	768
298	CACTGATTCCGCCGAAGATC	279
315	CACGGACACGAATACGATGAG	295
513	TTCTCGGTCAGCAGTATGGC	494
760	TATGACCGCAGTCAGAACCG	741
607	TATGACCGCAGTCAGAACCG	588
259	TATGACCGCAGTCAGAACCG	240
303	GGTCCGTGTTGAGTGGTTGA	284
457	CGTTGTTGATTGGACCGCTT	438
473	TCATCTCCACATTGCATACCA	453
188	AACCATCTGAACAACTGCGAA	168
171	TCTAGGCATCTTCAATTCGTGAT	149
137	CGATCATTGTGCCGAAGGTG	118
553	CCGAAGTTGTGAAGATGGAACC	532
331	CTGCCACATAATCCGATTCC	312
2574	GGAGTAGTAGTAAGATTGGATGCTGTT	2548
902	TTGATGTCGGATCGCACTCG	883
124	CATCCTTGACACCACGACGA	105
412	GAGCACCGAGTTCAGACAGC	393
1008	GAATCCAACACAACCTGAACATCCA	985
1531	AATGATTCTCGGCGTGATTG	1512
1518	AATGATTCTCGGCGTGATTG	1499
1436	GGTTCTTCGCTGTCCTCATCG	1416

553 AAGCTACTCCTGCAGCACGA	534
665 ATCGGTTCTGGCTTGGAGCTT	646
1052 CGTGTAAATCATTCCGACAGACAT	1030
920 CGTGTAAATCATTCCGACAGACAT	898
1064 CGTGTAAATCATTCCGACAGACAT	1042
932 CGTGTAAATCATTCCGACAGACAT	910
216 TGTGTTGCCGAGAGAGTTGA	197
298 CGTATTGTGGATGAGTTATCAGAGC	274
1175 GTCGTCGGCTTGTCTGGTG	1156
176 GATATTCACCACCTCGTCTTCACT	153
99 CGTAGTCATCCATCAATGCTTCC	77
1741 GCCTCCGCAACAGTACCGTA	1722
329 GTGCCAAGGACGAGAACTGT	310
2227 GCCTCATCTTCTACACAACACG	2205
1009 CGATAGCGAACGAGAGTCAGTC	988
1123 CGATAGCGAACGAGAGTCAGTC	1102
1123 CGATAGCGAACGAGAGTCAGTC	1102
980 CGATAGCGAACGAGAGTCAGTC	959
468 CGATAGCGAACGAGAGTCAGTC	447
437 TCACAGTCTACAGGTCCTGGAGTTG	413
185 TCACAGTCTACAGGTCCTGGAGTTG	161
136 TCGTCGTGACTCCAGATGTTC	116
262 GTAAGTCAGACCGCTCCACAA	242
3158 CCGATGATCTCTTAATGTTGTTCTC	3134
118 GGCATCACGACGAACTATGG	99
98 GCACAACCACATGATTGACG	79
141 TGGTTGAGTTGCTTGTGTC	122
92 AGAGACGACAGAGGCAACGG	73
104 AGAGACGACAGAGGCAACGG	85
974 AGGTGAAGCCGAGGTAGTCC	955
1091 GCGATTCGTGTTCTGCCAT	1072
472 GAGCATTGATGAAGCGAAGC	453
168 GCTTCACATCAACTCCGTTCTCTT	145
341 GCTTCACATCAACTCCGTTCTCTT	318
220 GCTTCACATCAACTCCGTTCTCTT	197
231 GCTTCACATCAACTCCGTTCTCTT	208
235 GCTTCACATCAACTCCGTTCTCTT	212
161 GCTTCACATCAACTCCGTTCTCTT	138
227 GCTTCACATCAACTCCGTTCTCTT	204
696 GAGACCATGTCCAGTTGAGAATC	674
124 CTTGTTCCGCCTGCTCCTCT	105
130 CTTGTTCCGCCTGCTCCTCT	111
241 GGATTAGATTGTCGACGTTGGA	220
479 TGTCACTCTGCACGTATTCTCAT	457

1076	GCTGGTGGTTCTCCGTCTCC	1057
1076	GCTGGTGGTTCTCCGTCTCC	1057
165	CGCTCAGAGAATGGATTAGAGTTC	142
463	CCTCGGTCTTCCATTCTTCTG	443
463	CCTCGGTCTTCCATTCTTCTG	443
924	ACGGAGACAGGCACTGGTTG	905
194	TTATCACATTCTATATCACATGCGATT	168
129	TCATCCTCAACCGGAGGAAT	110
838	TGTTCTTCTCTTCGTATTCTTCCAG	814
567	AGTCTCTTCAGCCTCTCCATCA	546
518	AGTCTCTTCAGCCTCTCCATCA	497
130	CACGGAAGTTCTCAGCGGTT	111
539	CACGGAAGTTCTCAGCGGTT	520
936	ATCGCAACTCCGCACTCATC	917
932	CATCCGTGAGTAGCTGCGTT	913
158	CATTGAGAATCACGGAGAACG	138
513	CTCTCTCTCTCGTAGAATCGGAAT	490
809	GGTTGCTAACATGTCATTCCATT	787
2180	GCGTGACCATTCTCGTGTGA	2161
650	GACAATCGACCGCTCATCGA	631
462	GCTACATTATTGACGGCGTTG	442
791	CGGAGATTATTGGTGCTGTAGTC	769
103	AACTCGCTGCTGTGCCATT	84
184	TTACGCTCTTGAGTTCTGTGTGGT	161
422	GCTGCTGGCATTGACATACC	403
449	TCAGAAGGTAGTCGGCCACTT	429
1470	AGCCTTGATGTAATGCGTTGT	1450
346	TACACTCGCCATCCAATCGC	327
310	AATAGTCGTCTTCTCCTTCGTCAA	287
873	TGGCGAAGTTGACGAGATC	854
167	TCGATTCTCTGCTGTCTGTG	147
201	GAGTCGCGTGATTAGTCTGTT	179
1523	TCCTGGTAATTCGCTGGTGT	1504
342	TGGTACTAACTGATTCTTCTTGG	317
780	TTCTAAGCTTGTTGATGTTGTGAGT	756
283	CGTTGATATTGCAGGTTGGC	264
283	CGTTGATATTGCAGGTTGGC	264
225	CCAATGTCGTGAGTAGGTGTGC	204
265	TAGAGCACGGAGCAGCATTG	246
468	TTGTTGGAGCAGGAGGAGGA	449
4146	GGCACAGACAGAGAAGTTGACG	4125
556	CCACGGAGCCTCATTCTCAT	537
323	GCTTCAACTTGTTGGAATGGC	304
214	CATGTCACGACTGCCACTTG	195

132 CATGTCACGACTGCCACTTG	113
271 TGTTCCAGGCATAACCATTCC	251
271 TGTTCCAGGCATAACCATTCC	251
384 TCAGTGCGAGAAGTAGAAGGAATG	361
872 CGCCTCTTCCATAACTTCCG	853
152 ACACTCGTTGTTAGTATCAACATCATTG	125
223 CAGAGTAGAGTTGAGATTGGTCGTT	199
859 GATAGGTCGTCAAGAAGAAGAGGA	836
287 AATACACGAAGTGAGATTATAGACGAAT	260
454 TCCTGATATGTGGCGGCTTC	435
531 TCCTGATATGTGGCGGCTTC	512
170 CTCCTCGGCTGGTATGAATG	151
324 CGTGTATTGTCCGTAGTCCTGTTC	301
161 CACATTAGATATCCGGAGAGCACA	138
1575 CTCCTGCTTCCATAGTATATTCTTCG	1550
264 TGACGAGTAGAAGCATCCAAGA	243
808 GTTGGCAGGCGTGTAGTTCA	789
655 ATTGGTGTAAATGGAATTGAGGAA	633
870 AACCATTAACCGAGCATGAACACT	847
322 AATGGACAGGTTGGTTCCAA	303
342 TCCGAACCTTCAGAATCCTG	323
2060 TGTTGAGACGAATGTGCGGAT	2040
1642 CCTCGTAAGGAATCTAGGCACA	1621
1242 ATACTCTTGCCAGCCGGACT	1223
184 GGTCATCGAAGCGATCCAAT	165
301 TTGCCGCTTGGTTCTTGATG	282
312 GCTTGTTCTGGATGATTCTCGT	290
148 CGAAGGATAGTGCATAGAAGAAGAG	124
760 TCGGTGTCATAGCCTGTGTAAC	739
1069 TCTGTGGAGAGATTGCCGAT	1050
672 TCTGTGGAGAGATTGCCGAT	653
2888 TCCGAGTGACGAACAGATGC	2869
272 CGTGGATTCCGTCATTCTGTG	253
272 CGTGGATTCCGTCATTCTGTG	253
2888 TCCGAGTGACGAACAGATGC	2869
205 GCTTCTCTGACGTCTCGCAT	186
414 TTCCGATGTTGGTGGTGTG	395
261 GAGCAGAATCAGCAGTGTGGA	241
865 TCGATGGAATCTCTATTCGTCA	844
880 TCGATGGAATCTCTATTCGTCA	859
583 CTGTTGAGGCTGCTTCTACGA	563
2374 TGATGTTCTCCAGGCGATTG	2355
460 TGATGTTCTCCAGGCGATTG	441
150 GTGGCATTGGAGCAGTGGAT	131

245	GACTTCCAGAATTGCCGTTG	226
220	GCAACTTGTGGTCGGACACC	201
1696	TCATTGTGGTGGTCCATAACTTC	1674
1705	TCATTGTGGTGGTCCATAACTTC	1683
3990	TTGGAGCAGCGATGTGTGAC	3971
3990	TTGGAGCAGCGATGTGTGAC	3971
3417	TTGGAGCAGCGATGTGTGAC	3398
3417	TTGGAGCAGCGATGTGTGAC	3398
684	TTGGAGCAGCGATGTGTGAC	665
684	TTGGAGCAGCGATGTGTGAC	665
315	GCGAAGTTGCATCAGATCATC	295
214	AGTATCTTCCGCGGATTGATC	194
320	TTGGCTGATCCGAACTCGAT	301
174	GCAGTGAGTTGACGGAGCAG	155
349	CCTCTTGCTCCTCGTATTGCTC	328
383	CCTCTTGCTCCTCGTATTGCTC	362
453	CCATTCTCCGTCTCCGATT	434
314	GGTAAGGATGGACTGCGGAA	295
629	GGTAAGGATGGACTGCGGAA	610
172	ACATTGAACGGAGCGATTGG	153
289	GCCTTGTTGTTGTTCCAGA	270
289	GCCTTGTTGTTGTTCCAGA	270
132	AAGCGGTGATTGAAGGCGTT	113
271	AAGCGGTGATTGAAGGCGTT	252
286	GGAAGTCACCTTGGTCCTGA	266
235	GGAAGTCACCTTGGTCCTGA	215
153	GGCGTCATCAGCAACCTCAC	134
173	TTCGCAACTTCTCCAGGTAA	153
458	CGAACGAATTGACAATAGTTCACAT	434
504	CGAACGAATTGACAATAGTTCACAT	480
682	GGTTGGATGGAATTGAATAAGAGC	659
124	CGAACGAATTGACAATAGTTCACAT	100
116	CGAACGAATTGACAATAGTTCACAT	92
267	CGAACGAATTGACAATAGTTCACAT	243
670	GGTTGGATGGAATTGAATAAGAGC	647
124	CGAACGAATTGACAATAGTTCACAT	100
116	CGAACGAATTGACAATAGTTCACAT	92
957	GTAGGTGGCGTTGAAGATCG	938
496	TCGACGAGAAGGCTTCCATT	477
238	GGTTCGGATTGGTGTAGGC	219
363	GGAGCACAGTTGTCGACGATT	343
260	GCGGATCTTGTCTGAAGTTGC	240
199	GCGGATCTTGTCTGAAGTTGC	179
153	TCTGGTGTCGTGGATTCTGG	134

154	TCTGGTGTCGTGGATTCTGG	135
152	TCTGGTGTCGTGGATTCTGG	133
153	TCTGGTGTCGTGGATTCTGG	134
152	TCTGGTGTCGTGGATTCTGG	133
152	TCTGGTGTCGTGGATTCTGG	133
153	TCTGGTGTCGTGGATTCTGG	134
154	TCTGGTGTCGTGGATTCTGG	135
152	TCTGGTGTCGTGGATTCTGG	133
153	TCTGGTGTCGTGGATTCTGG	134
152	TCTGGTGTCGTGGATTCTGG	133
152	TCTGGTGTCGTGGATTCTGG	133
565	CGTCTGGATGGATCAGTAGCC	545
586	CATTACGCTCACGCTCTCCA	567
1125	TGTCAGGTCACGGAGCACTT	1106
296	CCTGACGCCACTTGACTTGA	277
1182	TGGAGTTGGAGTGATTGCTGT	1162
344	CTCATTCTCATCATTGCGATTG	323
1109	TGGAGTTGGAGTGATTGCTGT	1089
727	TTGGTGCGTTGACTGGAATG	708
1128	TGGAGTTGGAGTGATTGCTGT	1108
486	ACTGTTAGGACAGCGTAATATCTCAC	461
422	ACTGTTAGGACAGCGTAATATCTCAC	397
5750	GTTGTTGTTGTTGTGGTTGGAAT	5728
415	CTGCTCCTTCTCGTCACACTC	395
415	CTGCTCCTTCTCGTCACACTC	395
5729	GTTGTTGTTGTTGTGGTTGGAAT	5707
5714	GTTGTTGTTGTTGTGGTTGGAAT	5692
415	CTGCTCCTTCTCGTCACACTC	395
3814	GTTGTTGTTGTTGTGGTTGGAAT	3792
379	CAACCAAGATGCACGGCTTC	360
460	AGGTGACGGTGGAGCGAATC	441
229	GGTCCGTTTCAGGTAGAAGCC	209
136	CGGTCAAGCCAGATACGGAA	117
152	CGGTCAAGCCAGATACGGAA	133
146	ACCATGACCAGAACCACAGC	127
125	AAGCCTTCGCCTAAGCCTAA	106
207	CGCTGATAGTGAGGCCACAA	188
150	GGAGCACTTCATTCATCTGGA	130
199	GATCACTGCTGTATTCGTTAAGAACT	174
614	ACGTTCTTCACAGTTACGTGGTAA	591
100	TTGGATCACCTGTGGCATCG	81
344	CACACAAGCACACCGACAGT	325
916	ATTGAGTCACGGCTGGTGCT	897
112	CTCCTTGTGCCATTGCTCTT	93

382	TGCTAGAACATTCTGCCGCTT	362
1312	TCCATCATCATCCACCACACT	1292
399	TTCGATAGCTCCAGCAATGC	380
249	TTCGATAGCTCCAGCAATGC	230
771	TGTATATGCTCCTATCGGAAGTGA	748
817	CAATAACCACTGTATATTCTGCTATCG	791
198	TCGTATTGGTCAGTGTCTTCCTC	176
156	GATTCCATTCTGGATTGTTCTCC	134
213	TTATCTCCTCGTCGAGCTTCC	193
1235	TGTGGATAGAGATGGAGAAGAGATGT	1210
172	TGAAGTCATTCTGTTGCTTGGTA	148
264	AGTAGCAGCAGGTTCTTGCAAT	243
1266	TCCGAGTCCATTATATCTCCATTG	1243
283	CTTGGTAGGCTTGAGCATGG	264
763	CCAACCTATCCAGACGAGACCA	742
430	TGTCGTAGTGGAAGGTTGGAGT	409
842	TTAGATTCTGCTCGGCGGTA	823
209	TTAGATTCTGCTCGGCGGTA	190
3590	GCAAGACACTCGGTTCCAAT	3571
278	TTCAAGTATTCATTGACAATCCAC	254
724	ATGCGGCTACTTGACGATGA	705
460	GGTGGATTCTCATCGTCGTC	441
126	TTAACTATCAGCCAGCTAGTAGCACA	101
664	GTGGACTGCTAGAATCTGACTCGTC	640
169	GTGCTGCAAGGACAATCATCA	149
166	AATGAGCAAGCGAGAAGTGG	147
326	CGCATGATGAATTGTATCAACACT	303
794	ATTGCTGGAGAATCGGAACG	775
794	ATTGCTGGAGAATCGGAACG	775
275	CTGAGAGCGACTGGTTGAGG	256
500	ATATCATCGGCGTGCCATTG	481
180	GAGCATCACATTCCACGAGTC	160
691	TGGAATTGGTTCGTCATGGTAT	670
253	AGCCTTCTTCGCCAACAACA	234
1253	ACTCAATACAACACTCTCGGAATG	1230
996	GCCTCCTCTTCATAACCACCA	976
453	CAGCGTTACCATTATGTTCTCCTC	430
819	CGTCATCACAGGTAGTGTCCAA	798
784	TTATCTCGCATTGAAGGAAGGT	763
240	AATGGTAGATCGTAAGGTTCGG	219
177	CCTCAGTCCTAGACACACATTACG	154
121	GCCTATCAACTTGAATGCGAA	101
852	CGAGGTTAGAATGCTTGTCACTTC	829
282	TGGAAGGCATTGCAGTAGGAA	262

344	AGTAGAGAATGGATGAGGATGGAA	321
179	GCACACATTACGACATGTCCAT	158
332	AGGAGATAGATCAATATAGAGGCAAGG	306
183	GCGTCTCAGTCCTTGACACACA	162
223	GTTTCATCAACAGCGTATCTCAAGT	200
461	GCAACTTCTCCATTCCAGAGG	441
844	TCCAAGTATCGCAGTGTCCA	824
986	CTCTTGAATCGGCTCAGAACA	966
139	AATCGCCTTGCCTCTCCATA	120
377	TCGAGCATGAATTGAAGTCCT	357
596	TCGAGCATGAATTGAAGTCCT	576
209	TTGCTCTCGTTCTCGGCGTA	190
213	TGAGCAGCGTCGTGTAGTAGG	193
243	TGCCATCTGAGTGATTGCCA	224
280	AACTATTGGACGACTGGAGGACT	258
355	TCTTCGATTGGAAGTGGCTT	336
244	TGCAAGAGAGTTAATGTCGTAAGTGTAC	217
1331	GATGCGTTCAGCGAGATGTC	1312
883	CGTCTTCTGGCGTAGTCACA	864
1193	TTATCAGCGTCAGGCGTCAC	1174
200	ATGGCTCTGAGTGGCTGACC	181
315	ACTGTGTTCTTATCCAAGTATTCG	291
481	AGATGGTCCTTAATGGTTGCC	461
133	CCATCTACCGTACTCACGAGCGT	111
94	TCTCCATGCGGAGAGCGAGT	75
100	TCTCCATGCGGAGAGCGAGT	81
94	TCTCCATGCGGAGAGCGAGT	75
94	TCTCCATGCGGAGAGCGAGT	75
688	CAATAATCCAGCGGTCACACG	668
161	ATCAGAGCCGACGAGGATGA	142
127	CGGAGAAGGTTATTCGGCAA	108
623	TCCATTGAAGCACACCGACA	604
213	TGAAGGCTGGATGGCTAGAG	194
406	GGTATTGAGACGGAGAGCATCG	385
128	GGTATTGAGACGGAGAGCATCG	107
283	AATGTGTTCCGCCGAGACTG	264
2177	TCTGATGATGATGATGCTGGTT	2156
1113	ACACAGGTAACGGTAGTAGCGATAG	1089
219	ATCTTCATCATCCATCATTCCAC	197
139	TTGGTGATTGGAGTGTTGTTGG	118
357	CGTGGATAGGTTGTAACGTGGTG	335
527	CGGTAGAATGAGATGGCAGAG	507
213	TTCGATGTGCGATACAATGTGA	192
332	AATAAGGATGATGAAGAATGAGACG	308

410	TTAGTGAGCTCCGCAACTGAT	390
605	GCGTGGCGTAGCATGTAGTC	586
408	AATGTGACGGCGAAGGAGTA	389
408	AATGTGACGGCGAAGGAGTA	389
258	AACGCTGTTGTTAGAGAACGGAA	236
2489	CTGGCGGAGAGTCGTGTTGT	2470
1304	GGCTCAGTGTTCTGTGAATAGGTAGA	1280
1322	GGCTCAGTGTTCTGTGAATAGGTAGA	1298
1241	GGCTCATCGAATTGGAGGAT	1222
144	CATCTGGAGTTGCGAAGAGG	125
194	CATCTGGAGTTGCGAAGAGG	175
162	CATCTGGAGTTGCGAAGAGG	143
287	CATCTGGAGTTGCGAAGAGG	268
98	ATTGGAGCGGCGATTATTCC	79
589	TGGTTGCTGTTGTTGTAGTTGTC	567
256	GGTTGAAGAGGTAGCAGTTGAGG	234
460	CCATGAATGCTGGAGCTTCC	441
111	CGACTTAGCGGATGTCAGTGA	91
235	GTTGCGATGTCCTCCTCCTT	216
165	AGCTGGAGCTCTCGGTGGTC	146
887	AAGCCAGAACCACAGGAACA	868
280	AGTTGTGGAGGTAGAAGAAGCG	259
128	CACCATCGTCGTCTGCGTCT	109
264	ACTGCTCCTGGAGGTCTTCG	245
551	CGTGATTGACAAGTCACTGATGG	529
362	CGTTGACAGTCGGATGTGGA	343
436	CGTTGACAGTCGGATGTGGA	417
483	CGTTGACAGTCGGATGTGGA	464
193	CACCACCACGACGTTCTCCA	174
476	CGTGATTGACAAGTCACTGATGG	454
89	CGATTGCCATTGAAGTTACGC	69
166	CGATTGCCATTGAAGTTACGC	146
710	AATATCCTTGATCGTGATCCAGTC	687
722	AATATCCTTGATCGTGATCCAGTC	699
592	AATATCCTTGATCGTGATCCAGTC	569
493	CGACGACTTCACGATTGTGC	474
538	AGCTAAGGAATAGCGATCCGATG	516
1129	GAAGTCCGCACATTAGGAGTTC	1108
3038	TGTCTCTCGGCACTTGTTCC	3019
3038	TGTCTCTCGGCACTTGTTCC	3019
2546	TGTCTCTCGGCACTTGTTCC	2527
1886	TGTCTCTCGGCACTTGTTCC	1867
3420	GGCGAGTGTGATGATGTGAGC	3400
3420	GGCGAGTGTGATGATGTGAGC	3400

778	TGTGGCGATGTAGATGTTGG	759
302	TGCTCGTAGCTCTTGTTATGGC	281
109	CATCGTCTGGTTGTTGCTCTT	89
351	CACCACTGACAAGGAGAACGA	331
407	CGACGGAATGATGGAGATGT	388
353	GCATCTGGTGGCTTCTGTGC	334
1435	CTTGGCTTAGGTCGGAGAGG	1416
337	CTTGGCTTAGGTCGGAGAGG	318
466	TCTTGTCGTGGCTCAGTTCG	447
352	TACGGAGTCCAGGAACATGG	333
175	CAGTGCTCCTTGTGTGTGACC	155
135	ATCCTTGTCTCGCATTCCAG	116
390	AATGTAGCGCCAGCATGTATG	370
794	GTCTGCTGGCTTGTTAGGATTC	773
342	TTCGAACATTAAGATTATTGAGATAGGT	315
822	TTGTTGAACGGAATCTTGTA	801
337	TGGAGATTATGGTCATCGGTACA	315
772	GGAATATAATGAGAATTGGAATAGCAA	746
781	CGGCTGGTAAGAAGATAATTGC	760
553	GGATTAAGAAGAAGTTGATGGAAGG	529
568	TGAAGGTATCAATGAAGGAGTGC	546
122	GGCTTGTTGTTGCTGCTGTTG	102
136	GTGAGCTTCCTCCTCCTGGA	117
168	GTGTAGGCTTCAGTGTTCCGA	148
103	CGGTGAGCTTGTCAGCCACT	84
233	TCGAACGAGGTGGTGGAGAG	214
144	CATACGATTAAACAATAGTTACGCA	120
616	CATTCCATTCTGGTACGTCTCC	595
167	CTCCAGTGTGCTCCGCATCT	148
241	AATCGGTGTACTGTTGAGTGTAGG	218
809	TCTGCTTATTCTCACGGTCCA	789
155	CACACACCATTCTCGTAGGCA	135
130	TATCCACGTGCCATTCTCA	111
319	CCTGAGTTGGTGGTGGCTTC	300
319	CCTGAGTTGGTGGTGGCTTC	300
185	CGTGGTCCTTGAAGTCTTG	166
414	TACCGACGAGACGCTGATTG	395
157	GGAATCTCCTCAGTTGGTGGTG	136
185	CGTGGTCCTTGAAGTCTTG	166
606	ATGATGAATGATGTTGGACTGC	585
606	ATGATGAATGATGTTGGACTGC	585
1306	CGCATTGTGTGATCGGAACG	1287
891	AAGCACCGAATTCACAGTGTC	871
882	AAGCACCGAATTCACAGTGTC	862

321 AATTCTCGCCTTGTACACACG	301
1008 GGTTCTTCCGACTGATGAGTAGCA	985
327 GCTTGAGAGGCTATTGTGGCA	307
1570 AGATGCCGACGACTTGGTAG	1551
338 GCTTGAGAGGCTATTGTGGCA	318
320 GCTTGAGAGGCTATTGTGGCA	300
1573 AGATGCCGACGACTTGGTAG	1554
1591 AGATGCCGACGACTTGGTAG	1572
137 CTCGTCTTCTCTATCGTCAGC	116
301 GGCGAATTGTTGGAAGAGACC	281
716 CGAGGTGAATGAACGAGAGACG	695
95 TTGAGTTCTCGCCGTCTTCT	76
310 TGTTGTTAGTGTCGGTGGCA	291
277 TGTTGTTAGTGTCGGTGGCA	258
542 TTCCACCGCCACAGTCATTC	523
696 TTCCACCGCCACAGTCATTC	677
542 TTCCACCGCCACAGTCATTC	523
281 TCCAGATGTGATCCTGATTCTCTC	258
281 TCCAGATGTGATCCTGATTCTCTC	258
180 CTACTGGCGGTGGTGGAGGT	161
254 GAAGTAACATGAATAGTTCGTCCATC	229
164 TGGTGATAACCGCTGGTGCTT	144
683 CGGTGGTTGCTGTTCTCTTG	664
769 CGGTGGTTGCTGTTCTCTTG	750
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250 GGAGCCACAGAGAGAGCAGTT	230
638 GAGTACTTGGCAATTCTTCTCATCT	614
178 CATCACGACGAAGCCGAAC	159
190 CATCACGACGAAGCCGAAC	171
635 GGCTTCAGATGTTGTTGGAGTT	614
462 GGCTTCAGATGTTGTTGGAGTT	441
396 AATCCTCCTGGTCTTCGTTCTT	374
1638 CGATTCAGTCATTATTGCTCCA	1617
358 GCGTTGGATCGTGAATAATATCTC	335
1297 CAGGTCGAGGTGTCAATGGT	1278
236 CAACCAATTACTCCATTCTCCAG	214
236 CAACCAATTACTCCATTCTCCAG	214
484 CAGACCGTAGTACAGATCAATCTTCA	459
780 TTGCATGACTACATAGAGAATTGATG	755
520 GACGTACAGACAACAACATCACG	498
773 GATTGACTGAATGAGAGCAAGACA	750
503 TTAATTGCCACGGTGTGCAG	484
360 CACAGTCATTACAACGAACAAGAAG	336
315 CACAGTCATTACAACGAACAAGAAG	291

384	CATCATAGCCGTGTAAGTTGTGTT	361
191	AGCATCGGCGATACGACCAG	172
257	AGCATCGGCGATACGACCAG	238
270	TGGCAGACGAACATACAGTGAC	249
730	GATAGATGGAATCAATCCGTATGG	707
774	GATAGATGGAATCAATCCGTATGG	751
852	GATAGATGGAATCAATCCGTATGG	829
137	TCACCGACGACTTCTTCCAG	118
971	ACACAACAGAAGCCTCCGAA	952
856	AACCTTGGCAGTGAACATCC	837
233	GAAGTACTCCTGTCGATTTCGTCA	211
113	ACTGTCCGCAAGTTCGAGA	94
897	TTCAACTCCATCGACTTCATCG	876
196	GATTCATGATTGGATACATTGGAA	173
751	TGTTCATACAATCTCCAACACCAA	728
934	TGTTCATACAATCTCCAACACCAA	911
847	AACATTCCATATTGATTCTTAGAGAGG	821
1010	CAATCAGAATCATGGACGGAA	990
800	GGAAGATACATCAGCACTATTGGA	777
425	GGTACGAACAGCCACACAACT	405
545	CCACAGTAAGTAATATCCGACACG	522
355	TGCTTATAGTGTTATTGATACAGCA	330
1000	CCACAGAGACAACGAAGCAAC	979
1113	ATGTGTCACGCTTGATGAGTTC	1092
386	AAGTAACGAAGGCGGCCTTG	367
1340	TTCCATCCTTCGTCGTCGTC	1321
425	TTCCATCCTTCGTCGTCGTC	406
679	CAACTCCAAGAAGAACGCTGTC	658
1479	GTGACTCCTTCGGCATCTCC	1460
1479	GTGACTCCTTCGGCATCTCC	1460
1479	GTGACTCCTTCGGCATCTCC	1460
1479	GTGACTCCTTCGGCATCTCC	1460
1479	GTGACTCCTTCGGCATCTCC	1460
1479	GTGACTCCTTCGGCATCTCC	1460
1479	GTGACTCCTTCGGCATCTCC	1460
4949	TGAACTGATGTCGCTCTCCTG	4929
1479	GTGACTCCTTCGGCATCTCC	1460
1479	GTGACTCCTTCGGCATCTCC	1460
2457	GCCACTTGTCTTCGTTATCG	2437
1479	GTGACTCCTTCGGCATCTCC	1460
1479	GTGACTCCTTCGGCATCTCC	1460
1479	GTGACTCCTTCGGCATCTCC	1460
415	CCAGCGTTGTCTTCCTTGAG	396
236	AAGAGCTTGGTAGTGGTTCGG	216
870	AGCCACCACCAGAACGCAAT	851

354	GCAGAAGCCACAGCAAGAAGT	334
354	GCAGAAGCCACAGCAAGAAGT	334
162	TTCCAATCACTCCGTTCAATG	142
11054	CGTTGATGTGAGCGTTCCTT	11035
151	TGTCGTAGTCGCCGTCGTCT	132
164	CAATGAAGTGCGGTGGAAGA	145
2674	CGGCGAGTTGTTGATGTTGA	2655
1554	CGGCGAGTTGTTGATGTTGA	1535
1500	CGGCGAGTTGTTGATGTTGA	1481
1206	CGGCGAGTTGTTGATGTTGA	1187
942	CGGCGAGTTGTTGATGTTGA	923
730	TCTGTTGATGTTGGATGAGTTCA	708
365	TTGGAGTGCCATGATTGTGTCA	344
365	TTGGAGTGCCATGATTGTGTCA	344
1101	GGTGAAGCATTGCACTGGCT	1082
124	AGTGCGACACACACAACCAG	105
198	TTGGTTGAGCTTGTGCTGCT	179
660	TGCGAAGAACTCAATGATGGTC	639
136	CATTCGCATTCCATATAAGCATT	114
139	TGCTACTCTCTTCTTCCACTTCA	115
764	TCTTGAATGATGTTGTTACATAAGTGTC	737
764	TCTTGAATGATGTTGTTACATAAGTGTC	737
619	ATCCGAATGACTTCCAGCCA	600
277	GCTTGTATGGCGTTACATTAACAAC	253
290	GTGATTCCATGAACAACGTGAA	268
1649	TCTGTGACAGCGAGCTTGTG	1630
360	AGCAAGCATGATGAATAGCCA	340
581	AAGCCAATCAGAGTCTCATAGGTT	558
1959	CTGTTTCGCATTGGATTTCGTGT	1939
239	CATGTCTCTTCTGTGAATCTCTTGA	215
193	ACTTGGATCGAAGCATTGCC	174
126	GATAATCATTGCGATGAAGCAG	105
1339	GCTCGTCCGCTTCATCGTCT	1320
501	GCCGAACACCTGGAGACACC	482
301	TTGACTTGGTTGAAGAGTGGCT	280
592	CGAGGATGTGAAGGAAGTGTG	572
590	CGAGGATGTGAAGGAAGTGTG	570
608	TGTCGAGCCGTCTGAATGTC	589
968	CGTGTAAATTCGTGCCACCAA	949
1031	CAAGATAGATGTTATTGGCTGCTG	1008
183	GACATCTGTGTTGTGGAAGCG	163
560	GGTTCGTGGAGGTGTTATTGTC	539
537	GGTTCGTGGAGGTGTTATTGTC	516
296	GCGGTAACAGAAGAGGAAGCCA	275

270	GGCTGCGTATGTGTGTCAAC	251
604	TGAAGCCAGTTCTGAAGCCT	585
995	AGTGGCTCCGATGTGGTCTC	976
158	CGTACTGTTGTTGTTGATTGTATCC	134
1083	AGCATCAACTCGGTAGACACG	1063
260	GCGTCTGTTGTGAAGCAGTCG	240
899	TCTGATTGATGAGGATTATTGCTG	876
284	TTCAGGTGGCGTGTTCAAGA	265
548	CTCGTAGTCGTGGATGTCTGG	528
606	CTCGTAGTCGTGGATGTCTGG	586
573	CTCGTAGTCGTGGATGTCTGG	553
130	TCGGAAGTGATGTTGTGCGT	111
238	GTTAGATGAGCTTCGGATACGC	217
798	ATTGCCAGAGGAATCATTAGATG	776
885	ATTGCCAGAGGAATCATTAGATG	863
135	TATTGCCAGCTGCTGCTGCT	116
162	TCAGAATCCATCTACCGGATCAGT	139
124	CGTACCTATCACCTTGTGCCA	104
618	GACATGCAGTGGTGCTGATC	599
451	CCATTGCCACGATTATTACGA	431
602	GCAGGCAACAGTGTAGAGGTC	582
349	TGTAGGCAGTTGGACATAGACTTG	326
189	CGATGAAGATGAAGGCACCA	170
184	GGTCATCGAAGCGATCCAAT	165
441	AGGAGATGATTGTCTCGAAGATTC	418
1087	CATCAAGAATATTCAGAATCGATGA	1063
634	TTGCCGACTGGTTCCAAGTC	615
411	AGGTGATGGTGTGTGCTGA	392
1209	TGGAAGATAGTTCGCTTGATT	1188
1956	TCAGAACATACCATACTGTATTCCAGAA	1929
327	GA CTGGAAGCTGGTCTCCTTCA	306
368	TCTCGGATTGTGATGAACGC	349
327	TCCTTCGGTGTAGTCGGTGTT	307
1080	CGTCTGCTGAACCATAGTCTGA	1059
271	CGAGATACAGATCATACCTAGCACA	247
817	CAGGTAGGTAGCCAGCAAGG	798
817	CAGGTAGGTAGCCAGCAAGG	798
606	GACGGTGATTGGTTCTAGGAAGA	584
338	CCAGCGGTGTAATCAGTGTCT	317
74	TGATTGATGCAGCAGACGATT	54
112	TGATTGATGCAGCAGACGAT	93
137	CAGGCATCACCACACCAAGA	118
2684	CCAGGTAGAGTTGAGTTGACAGG	2662
2744	CCAGGTAGAGTTGAGTTGACAGG	2722

324	TGAGGCAGATGATGGATTGTAG	303
679	TGAGGCAGATGATGGATTGTAG	658
140	GAATTGTATGATTGCTGCCGTT	119
174	TGAGGCAGATGATGGATTGTAGT	152
417	TGAGGCAGATGATGGATTGTAG	396
354	GCAGAGGTCAACAAGCCATT	335
652	GCAGAGGTCAACAAGCCATT	633
963	GATAGACACGATCATCAGCGAA	942
576	GTAGGTCCATGACGGAGCTG	557
394	GGAGAAGATACAGAACAAGTTCGTG	370
216	GACAGGTCACCATCTCTCATGA	195
575	CGTTGCTCATAATAGTGCGTCA	554
435	CACAAGGTTCTGTTTCATAACTGCTT	410
239	TGCTCCAGCTTCTTCCAGAT	220
298	TGCTGCAATTATGAGAGATGTGG	276
360	TGTGTCGCCTGATGAACTTG	341
562	GAATTATTCTTGCTGACCACTCG	540
147	GGAGCGGTCAATGAATAGAGTAGT	124
1575	TGAGGCGTTGATTGAGGATG	1556
531	GGAGAACAGAACACCGTATTGG	510
1157	CAAGCCGTCTGTCTGGAGTCA	1137
949	TCATTCTTCGTTCTTGCTTCG	928
145	CGCTCCTCGCTCATTAGAGA	126
153	GGAACAGAGCCAGAGCACAT	134
1121	ACTTCAGGTGCTGGTGTGG	1102
1151	ACTTCAGGTGCTGGTGTGG	1132
1016	ATATCCATAGCGCTCGCCAA	997
115	TCGAATCTTCTCTGGCTCGA	96
233	AGACATGTTGTTCCGAGAGAATC	211
309	TGATGAAGAATGGTTCCAGTGTACT	285
447	AGAAGATGACGAGGCGGTGT	428
587	AGAAGATGACGAGGCGGTGT	568
2155	CGAGAGGCGAGAAGGAGTGT	2136
1858	TAGGTCGGATGATGATGGCA	1839
441	TGGAGCAGAGGCAGTGAGAT	422
132	CCAAGCAGTGGTCTTCAAGG	113
204	TTCACGACCACGAAGACGAG	185
396	GTCCAGACCAGAATGCTTGC	377
968	TTACAGTTCCATTGAGAGATTCCA	945
385	GCACCAGCCAACACCAGATG	366
174	ATAGTGTCGTTGGCAGCATCT	154
146	ATAGTGTCGTTGGCAGCATCT	126
816	ATGCTATGAACTGACTATTGGAACTC	791
807	ATGCTATGAACTGACTATTGGAACTC	782

242	GGAGAATACAATGGACGACTAGGTG	218
2930	GAAGACTAGCACACGCAATCG	2910
2140	GAAGACTAGCACACGCAATCG	2120
2635	GAAGACTAGCACACGCAATCG	2615
2546	GAAGACTAGCACACGCAATCG	2526
798	CAGTGACAGATGATCCTATGTGAAG	774
750	CAGTGACAGATGATCCTATGTGAAG	726
259	TGCCTCTTGTGCGATGATATGC	239
391	TTGTGCAGAATGCAATGTCG	372
406	CTGGAGTAAGAGTTGGATGATGC	384
533	AACACTGTACTCCATATTCACATCGTCT	506
429	TGCCACATAATATTGAGACCAGAA	406
450	GAATATGAATGCTGCACCAACA	429
1083	TTCGTAGCCACTGTCACTGC	1064
1342	CGCCGTATTCACTCTTCTCG	1323
174	GGAGCCAATAGAGTATTCATTGAGAAGA	147
542	TCAGCAGCTCCTTGAATGATGA	521
698	GTCCAGTAGATGCCGTCGCT	679
1759	GGTGTGGACTCTGATTCGCA	1740
809	GGTGTGGACTCTGATTCGCA	790
171	TCTTCGGTAACAACCTTCTTCAACA	148
106	ATGGTGGTTCACTGGTCGGA	87
196	TGAATTGAGACTGCTGATGAACA	174
196	CGGAGAAGCAGTGCTCGATG	177
213	CAGAGCAAGATTAAGCGGAAGA	192
194	GAGTACCAATCCTCCTTCTTCATCA	170
305	GTGGCAGGACTTGATGACGAG	285
157	ATAGAAGATTAAGCCAACTGGAAGC	133
313	GCTGAGAGTCGGTGAGACCTT	293
493	CAGTCCTCGTCTCCGACCAGT	473
188	GCAGGCAATGGCAATCAGTT	169
1273	CCAGCGTTCATGTACTCACACT	1252
275	AACTTCATCTCCTCTCACAACCTCCA	251
280	GTTGAAGCAGCAGACACAGGTT	259
380	TTAGCCACTTCACGCAGGTT	361
368	TTAGCCACTTCACGCAGGTT	349
1258	TTGCGTCTTGAGTCACTGGAAC	1237
412	AGTTGCGTAATGAGGTTGGC	393
523	GGTATCCACCAGAGCCTCCA	504
413	GGTTGTGGTGCTGTCTTGTC	393
432	CCACGCAAGAGTAATAAGCCAA	411
1929	CCTGTTAGTGTTTCGTACATCGGA	1907
761	TGAAGTGGAGCACTCATAACAATC	738
718	TTGACAGCGGAGATGTAGAGAA	697

694	TTGACAGCGGAGATGTAGAGAA	673
467	GTGGACTACAATCATTACGGAACA	444
540	TTCATAATCCAGAGAGCATCCG	519
971	GAGCATACAAGCACAGTTCCG	951
992	GAGCATACAAGCACAGTTCCG	972
2226	TGGAGTTGGCAGAGAATACGA	2206
2226	TGGAGTTGGCAGAGAATACGA	2206
209	TGGTCGTTCTATGCCTCACTG	189
324	TGGTCGTTCTATGCCTCACTG	304
209	TGGTCGTTCTATGCCTCACTG	189
299	TGGTCGTTCTATGCCTCACTG	279
209	TGGTCGTTCTATGCCTCACTG	189
299	TGGTCGTTCTATGCCTCACTG	279
168	TCCAGTTCATCGTCGTCCAT	149
578	CATTGTTCAATCCGCAGAGAG	558
512	TCCTCCTCTTCGTTGTCTTCG	492
534	TCCTCCTCTTCGTTGTCTTCG	514
393	AGGATCGTCGGCAAGGAGTT	374
704	ACAGAGAGCAGCAGACAGCAT	684
831	ACAGAGAGCAGCAGACAGCAT	811
822	ACAGAGAGCAGCAGACAGCAT	802
373	CATCCAGCGTCACATACTCG	354
190	CGACGACTTCCGATAGATTCC	170
222	CCGTTATCTTATTCGTGGCAA	202
455	TCTGGCTGGAAGCATGGATC	436
911	AAGTTGACAAGCAAGATCCGAAT	889
502	TGCATAGTAATAAGGCTATTCGCA	479
761	AACATAATAGAACCGCTACACGAAT	737
887	GACATAAGCCGAATATAAGAGATGC	863
794	CGAGAAGATCTATCAATCTTACTCTGAG	767
292	GCTCTTGCTCTTCCGTCTCAG	272
146	TGGCACACAAGATTCGGCAT	127
81	TTGTGGTATTAAGCAATCCATGC	59
136	TTCAACCATCTGCGTCTCTACACT	113
129	CAGCGGTAGTTCTGTGGTGAG	109
1443	AGGCGAAGACGTTCTTGTGC	1424
192	GTACGGCTTCGGAGTCTCATC	172
778	TGGAAGTATTACTACTGGACGCATT	754
1006	TGTGGAACCTTCGTAGAGAGCA	985
1025	TGTGGAACCTTCGTAGAGAGCA	1004
274	TCCATAACAATCCATAATCGGTCT	251
526	TGGCTGCTGATGATGATGGA	507
175	TGGCTGCTGATGATGATGGA	156
1307	CATTGAATCACAGTTGAGAACATTG	1283

517	TGGCTGCTGATGATGATGGA	498
898	CATTGAATCACAGTTGAGAACATTG	874
923	AGCGAGTTGGAGCATTACAG	904
1010	TCGTAGTAGCTGTCAGCACGAG	989
870	TCGTAGTAGCTGTCAGCACGAG	849
198	TGGTTCTTGATCATGAATTCGACT	175
198	TGGTTCTTGATCATGAATTCGACT	175
434	ACATTGTTAAGACCACTCTTGTCG	411
327	ACATTGTTAAGACCACTCTTGTCG	304
143	AATGAATGCGCTTGGAGCAG	124
92	TCCGACATCAGATGTGACTCC	72
364	CGAAGTAGTGAGGAGAGACGCA	343
376	CGAAGTAGTGAGGAGAGACGCA	355
352	CGAAGTAGTGAGGAGAGACGCA	331
352	CGAAGTAGTGAGGAGAGACGCA	331
326	CATGCGGAGAGATCGTAGTTG	306
124	CACCTGATCCGAGATTGCTG	105
141	AGTATCTATCCATGTATGTGTGCTCAG	115
1329	TTGGCTTGTGGAATGACGAT	1310
80	TTGGCTTGTGGAATGACGAT	61
1175	GCAACACCATACGCATAGAAGG	1154
683	CAGATGTCACATTCTGGTTAATTCC	659
687	CAGATGTCACATTCTGGTTAATTCC	663
783	CAGATGTCACATTCTGGTTAATTCC	759
567	TCCATCAGCATAGCATCAA	548
148	TTGAAGCCAGCGATAAGTGAT	128
143	CCAGAACCATTGATGCAGT	124
248	CGGAACATTCGGATTGAGTC	229
111	GCTCGCCAGGAGGAAGTTGA	92
117	CCTGTGGATATGGTCCTTGAGC	96
444	ATTGTGAAGGTGCTTGATTGC	424
1105	GAAGTGGTGAGTAGGCGTGAA	1085
1043	GAAGTGGTGAGTAGGCGTGAA	1023
899	GGAGCAGCAAGCGATGAAGG	880
355	GCATCCTAACTCTCATATACATCTCG	330
120	AGAAGCCAAGCCTGAGAAGC	101
527	GCGTATGCGTATGGCGAAGT	508
193	GATGATGATGGCGGACTTGT	174
222	AGATGAAGCGTCACGTCCTG	203
249	CAATAATCGCCAGAACCACACC	228
263	CAATAATCGCCAGAACCACACC	242
3371	TTAATGGCATCGGCGGAATC	3352
3371	TTAATGGCATCGGCGGAATC	3352
787	GCACCACAGAGTTGAGGAGCA	767

787 GCACCACAGAGTTGAGGAGCA	767
248 ATTCACCTCCTTGAGCTGCCA	229
247 ATTCACCTCCTTGAGCTGCCA	228
247 ATTCACCTCCTTGAGCTGCCA	228
249 ATTCACCTCCTTGAGCTGCCA	230
132 GAAGTGACGAGCAGTCAGAAGC	111
408 GAAGTGACGAGCAGTCAGAAGC	387
1001 AATGCCGAACTTCCTTGGTAA	981
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1001 AATGCCGAACTTCCTTGGTAA	981
164 GAGTAGCTGTGTCGATGTGACG	143
1112 ATCGGAATCACTCGCATCGT	1093
667 AATCTTCTGTATCTTCGGAGCAA	645
304 TCGTCTCTTCTATTCTCACTACATC	279
1259 CACCTCCGTGTCGTGTGAGC	1240
227 GCTCCACAGATGAGAGACACAA	206
1561 TGTCTCCATATCGCCATCGTC	1541
171 GATACTGCGTGGCTCGGATG	152
786 TGAAGATAGCCGCAGATACCG	766
726 TGAAGATAGCCGCAGATACCG	706
903 TGAAGATAGCCGCAGATACCG	883
403 TCTCATGGAAGATTGATTGGTG	382
328 TCCTCTTCAGAATCGTCATCATC	306
726 TTGTATAGTAGACTGAGACCGCACA	702
435 GCTTGTTGGTTGAAGTGTAGATGA	412
125 GAAGCTGATCATCATCTCTATCCG	102
253 GCATGAAGAAGAGGAAGTGACC	232
490 GCTGGACAGTGTAAATAGAGTGGCT	467
796 TGAAGCTGTTCTTGGTGGAGA	776
481 GGTGTGAATGGTTATGATGATGG	459
655 GGTGTGAATGGTTATGATGATGG	633
579 GAGGTGTGAATGGTTATGATGATGG	555
405 GAGGTGTGAATGGTTATGATGATGG	381
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617 AGCAAGAGCATTCAATCGGTTAC	595
1257 CGCTGATCCGTGTCTTGCTA	1238
1252 CGCTGATCCGTGTCTTGCTA	1233
431 TCAACTGGCGATGAAGTGCT	412
345 TCAACTGGCGATGAAGTGCT	326
793 CCACAGCACATATAAGAGTTATCGTAA	767
859 CCACAGCACATATAAGAGTTATCGTAA	833
227 GGAGAGAGGTAAGATATATCCAAGGC	202

175	CATCGTTAATACGAATCGTTGC	154
140	ATACATATTGATATCATGGTCATCCAG	114
131	TTATCAATGGCGGTCCGTAA	112
820	GGAATGTACTTCTTGTCAGCAGATC	796
133	GCTTCGCTCCGATCATTAAGAGA	111
164	TTCTTCCTCTACTGCTTCTTCACAA	140
185	CGACAGACCGACCAGACTTC	166
862	TCTAACTGAGCCAACCGTGAT	842
846	CTTCTAACTGAGCCAACCGTGA	825
170	AACGTCCACATATTGGTCGATT	149
142	AGCCGCATTCTTCCACTCTG	123
939	TGTTGTGTAGAGTGGTCGTTGG	918
224	CCATCGCATCGTCCACTTCT	205
557	TGATTCCGTTCCGCCAGTTCT	538
1984	TTGGTGTAACGACGCATAGC	1965
974	TTGCTTCATCATCTTCTTCGC	954
1984	TTGGTGTAACGACGCATAGC	1965
2126	TTGGTGTAACGACGCATAGC	2107
2126	TTGGTGTAACGACGCATAGC	2107
942	ATTGCTTCATCATCTTCTTCGCT	920
592	ATTGCTTCATCATCTTCTTCGCT	570
624	TTGCTTCATCATCTTCTTCGC	604
348	CACCGTAACCGCTCATCTGT	329
1546	AACTGAATGACAAGCCAATCG	1526
424	CGTATAGCATACTAGAGTCATTCAAGTTG	397
371	GTGTTGTTCCGTATGAATACTCCA	348
298	ACGGAAGTAGCAATCCAGTGAA	277
935	TGAGCCTTGTCGAACGTCTCT	915
220	CACAACTCTCGGACCTTATGC	200
220	CACAACTCTCGGACCTTATGC	200
587	CACATCATAATTGGAAGAACTTGTC	562
585	TTGTGCTTGAATCGGTTGTG	566
135	TTCAGATGTTAATGATGGTGATGC	112
131	GGCAGTTGGCATAGTTATCGAGA	109
142	TGGATATCGTTGCGTCTATGACA	120
485	TCACTGTAAGCGGACGGATT	466
413	TCACTGTAAGCGGACGGATT	394
1569	GATAACGGACGAGCCACGGA	1550
1871	GCCGCATTCAACTCACTCTT	1852
1977	CTGTCGTCGTCGTCAAGAGAGA	1956
1962	CTGTCGTCGTCGTCAAGAGAGA	1941
1977	CTGTCGTCGTCGTCAAGAGAGA	1956
1932	CTGTCGTCGTCGTCAAGAGAGA	1911
1096	CATAGTATTAGTGAGCCATATTGCCA	1071

137	CGGCACTATCACCATGTGTACC	116
350	AACCAAGGTATCCAGGCTGTC	330
238	CGACAACTCGTTCATTACCAT	216
245	CGACAACTCGTTCATTACCAT	223
342	CGACAACTCGTTCATTACCAT	320
884	TCTAGTGCGATGCAGATTCCT	864
749	TCTAGTGCGATGCAGATTCCT	729
143	GGAGCAGTAGGAGTAAGCAGCA	122
138	GCGACCGGCTTCTGATGTAG	119
157	TTGGATGACGAGGAGTTGCT	138
212	AGAATGAACAGTGAACGATAACCA	189
308	CGTATTCACAGTGTTTCATATAGCCA	284
457	GCATTCCAGAGAATTGTTTCATCA	435
172	CCTCATTACCTACTCTTCTCGCCTT	148
483	TGGATCATCTGGAATGGCAT	464
413	GAATGGCATTGATGTTGAGTAGTC	390
300	ACGATCAGGCATTCCGACTT	281
340	CGACTACTTGTGTGGCGATT	320
801	AGACATCGTGGAAGAGCAGAA	781
921	TTCAGACTATCCAATGCGAAGA	900
805	CCGTCTGGTCCTGGAGATCC	786
374	TTAATGTGATGAAGGAACTGTGGT	351
1236	TTCTTGTGCGGAGTCATAACG	1216
1236	TTCTTGTGCGGAGTCATAACG	1216
1236	TTCTTGTGCGGAGTCATAACG	1216
1194	TTCTTGTGCGGAGTCATAACG	1174
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1706	CAGATGCTACATGTGGATGAGG	1685
1777	CAGATGCTACATGTGGATGAGG	1756
1654	CAGATGCTACATGTGGATGAGG	1633
1731	CAGATGCTACATGTGGATGAGG	1710
1885	CAGATGCTACATGTGGATGAGG	1864
483	AGGAAGTGATATTAGAATGGATAAGCA	457
153	AGTGACCACCACCGCCATAC	134
125	AAGATGAGGATGATGATGACATGC	102
938	TGTCTCCACGAGCACTTCCT	919
254	GCATATTCTCCTTGATACTAAGACCA	229
285	AATGTCTACACCTCTGTACTTCATATCC	258
832	CAAGTGAATCCGTAGGAGATCC	811
974	GTGGAAGTGATGCTGGCGAGT	954
743	GAGTTGCTCCAGAAGATACCGTT	721
157	TCAATGTCAAGAGATGATCTTCGTAA	132
992	GGACGAAGTGTTGATTGTGTTGG	970
976	ATACGCCTCACGCAACGATT	957

1202	AGATGTGTTAGAGAGTTGGTGGAAG	1178
893	TTCGTTACCACCTCGTCGTT	874
148	TTACAACAATCATGTAGTCACCGTCAT	122
2386	CCAGTTCAGCATTTCGGAGAT	2367
129	TGTACTCAACACAAGGCGACA	109
137	CGAAGAACATGCTGCACAGTAACC	114
328	GTCCATTCCGCAGTTGTGAT	309
348	GTCCATTCCGCAGTTGTGAT	329
1625	CTGTCATCATTGCTGGCTTG	1606
1619	CTGTCATCATTGCTGGCTTG	1600
125	GTGACAAGGCAACCACCATT	106
924	GCTATCTCCATTGTCACCTTCGG	902
131	GTGTGCAACAGCTTGAATCG	112
358	ATCGCTTCACGCCAAGTGCT	339
1084	GGTCATCAGTGCTCCTTGGTAG	1063
3798	TGGCACAGACCGTTATGAAGT	3778
172	GCTGAGCCGTAGTCGTATGC	153
555	TGGATGTTGAGAACGAAGAGAGA	533
906	TGATGTATGGAAGAAGATGGATGA	883
3337	TCAGACACACTCCATTACAGG	3316
353	GTAACATCAACAATCGGAGAAGG	331
7001	CGAGTGGAGGAGTCAATGGA	6982
634	CGAGGAAGTGTGGTGATAGTTGT	612
6640	CGAGTGGAGGAGTCAATGGA	6621
634	CGAGGAAGTGTGGTGATAGTTGT	612
606	GCTCCAATTCTGACAGGTATCC	584
601	TGAGCAGAGAGAGCACGGAA	582
577	TGAGCAGAGAGAGCACGGAA	558
153	GCCTGGTAGAGAACTGCTTGATG	131
153	GCCTGGTAGAGAACTGCTTGATG	131
452	CTGTAGGCGACGGACGACTC	433
282	GCTTGTGCGCAGTTGTACTTCTG	261
554	CGATCTTGACGAATGGTGGA	535
640	CACAGATCTCCAATCGACTGG	620
721	CACAGATCTCCAATCGACTGG	701
472	GACACTTATTGAGACAAGCGTCTG	449
1827	TGGTGATGGTGGTGATGGTG	1808
506	CCAAGTGAATTAGTGAATACACATACAG	479
252	GACGCAGGAAGAATGGAAGA	233
252	GACGCAGGAAGAATGGAAGA	233
170	ACTCTGCCAGGATATTCTTGACA	148
230	ACTCTGCCAGGATATTCTTGACA	208
1541	CCGCAAGACAAGAACAACACTG	1521
566	CTTCTTGGTAGGCGGTGACA	547

607 TGAGGTCCGAGTCCATAGGC	588
685 GGTCTCGGTTCTGTAAGCCA	666
685 GGTCTCGGTTCTGTAAGCCA	666
997 CAGATATCTATGAGAGATGTGTTGAAGA	970
997 CAGATATCTATGAGAGATGTGTTGAAGA	970
225 AGACTGAACAGCCGGAGACG	206
607 TGAGGTCCGAGTCCATAGGC	588
671 AGCCGCCACAAGAGTCATTC	652
641 AACCGCAACTTAATACGAATGG	620
541 CATTAGCATCTCTTGGCACGA	521
543 CAAGCTCATTGTGAGTCGGAT	523
958 TTGGTGGAAGCATTGAACAGAT	937
256 TCTTCACACCACCACCAGCA	237
153 CTTCACACCACCACCAGCAT	134
800 CGTGGCAGGTAGAGTTGACTG	780
347 GGAGCAATCTGTTGAGTACTCC	325
774 AAGGCCAGCAATTGATGGTG	755
133 GGAATGATATGTGAGGCGTGA	113
470 CCAGTGAGGAACGCTTCTCG	451
652 ACTGTGAGAAGCATTGTTAGCA	630
521 TCGTGAGGTGAACAAGTAAAGTAG	497
544 GGCGAATGGATTGATGACTT	525
581 GGCACAAGAACTCCGTATCG	562
325 TTGTTGATGATTGATCTGAGGCT	303
289 TTGAGAAGATATGTCAGACGAGAGA	265
2087 AATAACCGCATAAGACTGGCATAG	2064
629 AGAGAACTGCCGTTACGAAGTC	608
2101 TCAGATGGTGTGCGTTGTGG	2082
678 CGCTTCACGCAATAGTCCAC	659
292 TGGCGTAGGTGAGCAAGAGG	273
622 TGAACATCACTGAATACGACAGAA	599
1536 CCACAACACGAGAATTATTGGTG	1514
696 TGCTCCATTATCCGTTCCAT	677
179 TATCCAACGGTTCTGCCTTC	160
407 GCTCCAACCAATCTGTGAACTC	386
387 TCACTTCGCAACTCGGCAAT	368
272 TCACTTCGCAACTCGGCAAT	253
189 TTCCTTCAACTCTAATTGATCCTTG	165
553 TATCATCTGCCATTCTGCGA	534
385 TGGAGCACAATCAAGCTAAGG	365
2151 CCAGCATCATAGAGTTCCTTGTAG	2128
903 CAATCTTCCGTCTCCAGCGA	884
619 TCCTGCTCCAGATAGTCCATCAG	597
242 GGCTTCTTCTGGCTCCTCTT	223

276	GGCTTCTTCTGGCTCCTCTT	257
278	ATATTGCCGACGCCACATCC	259
156	GGAGTCGTCAAGAAGCCGTT	137
885	GCTGTTGAAGTGACGAAGACC	865
3917	GGTTGGTTGTAGTAATCGCCAT	3896
3724	GGTTGGTTGTAGTAATCGCCAT	3703
3854	GGTTGGTTGTAGTAATCGCCAT	3833
3252	CTCAAGATGTCGGCTCCAGA	3233
3923	CTCAAGATGTCGGCTCCAGA	3904
558	CGAGTTGTTGGTAGAGGATGGTT	536
1523	TCGTGAAGATATTGATCGTCGTA	1501
225	GTCTTCGTGCGCCACTGTTGT	206
1445	TGATGGATGACCTTGATTGTTG	1424
232	GCATGAGTTGGAGTTGGATGA	212
434	AGCAGTCGTAGATGTGCAGTGC	413
484	AGCAGTCGTAGATGTGCAGTGC	463
206	GTGGAACACGGCGATGAGAA	187
922	TTGAGCAGTGTCCAGATAAGTGA	900
938	TTGAGCAGTGTCCAGATAAGTGA	916
468	TTGGCAATATCACTGCTCTCC	448
761	AACTCGCCACCTTCAATGTC	742
181	ACACTTGCTGGACTATTGAATATTACC	155
2594	ACAGCGGAGTGGATGTAGATG	2574
2605	ACAGCGGAGTGGATGTAGATG	2585
862	ACAGCGGAGTGGATGTAGATG	842
2689	ACAGCGGAGTGGATGTAGATG	2669
2704	ACAGCGGAGTGGATGTAGATG	2684
1779	ACAGCGGAGTGGATGTAGATG	1759
1553	ACAGCGGAGTGGATGTAGATG	1533
244	ATTGCCGAAGCCATTGTCTG	225
244	ATTGCCGAAGCCATTGTCTG	225
1455	CATTGCCATTGGAACATCATC	1435
132	GAAGTCAACGCATCAGCAGA	113
244	ATTGCCGAAGCCATTGTCTG	225
244	ATTGCCGAAGCCATTGTCTG	225
244	ATTGCCGAAGCCATTGTCTG	225
1571	ACAGCGGAGTGGATGTAGATG	1551
946	ACAGCGGAGTGGATGTAGATG	926
94	GCTCTGCGTATTCCAGATAGGCTT	71
301	CGATGTGACTGGTGCTGGAG	282
125	GGAGCGGAACCTTGAGCGATA	106
1071	TTCTCCTTCCGACTCCGAGTT	1051
782	CCAACACGATCTGTCGCATG	763
1407	AATGATTGCCAGTCTTGATGTG	1386

883	GGTGCGGTGTAATCCACATCG	863
411	ACCAGCAATCAGTTGAGAGTAGG	389
716	TGATCGGCAACAGGACAAGT	697
183	CGGTGTTAATGGTGGAGATGA	163
2601	TGGCAGATTGGTGTGAAGTG	2582
952	TGAGCCATTGTCTACCAGCA	933
2588	ATCATCAACAAGAGCAACATCG	2567
444	AGGTGTAGGTGCCAAGCCAA	425
117	CGATTCGAGTAGCTCCGCTT	98
148	GGCTCTCCTGGATTATCCTGTT	127
3608	AAGGATGGTGGAGATGGAATG	3588
202	GGCTCTCCTGGATTATCCTGTT	181
336	GACAGGAATGTCGGAAGTCG	317
211	CGATTCCAATATGACCTTCACAGC	188
336	GACAGGAATGTCGGAAGTCG	317
170	CGGACACTGTTACCGTAGATCG	149
222	CGGACACTGTTACCGTAGATCG	201
536	CCAGACTCTATATCGAGAATCGTTC	512
264	AACTATTCAGTGTGGTTCCACATCT	239
134	TTCTGACAGCTCACACCACGATT	112
405	CGTAAGCCATATAATCTTCTTCGGT	381
401	CGTAAGCCATATAATCTTCTTCGGT	377
2679	GCTTGTGGACGGCTTCTTCT	2660
712	TCATTCCAGGCATCATCAGG	693
683	TCATTCCAGGCATCATCAGG	664
188	CATGTGGCATTGCTCTGAA	169
537	TCATTCCAGGCATCATCAGG	518
1047	TCATTCCAGGCATCATCAGG	1028
188	CATGTGGCATTGCTCTGAA	169
537	TCATTCCAGGCATCATCAGG	518
1102	AAGCGTCGTAGCCTGTGTTCA	1082
1156	AAGCGTCGTAGCCTGTGTTCA	1136
268	GATGAGCAGGCAGTAATTGAGTT	246
357	TCATCTCCGTCAGTGGCAAT	338
1083	TCACTCTGCCTCATCTACTGGA	1062
415	CCGATTGTTCTGATGTAGTCTGAG	392
1338	TGTTGCGGATTCCGAGACTT	1319
130	CACTCAGACCACACATTCGTTG	109
330	GACACCATGTCAATCTTGCTTG	309
120	CACTCAGACCACACATTCGTTG	99
555	GCTTGTCTCACGCCATCCTT	536
206	TGTGTACGTCCGATGATAAGGTT	184
193	TGTGTACGTCCGATGATAAGGTT	171
139	TCCACTCGACTGATACACTCTTACC	115

588	GTCGCATCGCTTCCGTGTAG	569
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588	GTCGCATCGCTTCCGTGTAG	569
840	CCACTCACGCCATTCATAGG	821
588	GTCGCATCGCTTCCGTGTAG	569
588	GTCGCATCGCTTCCGTGTAG	569
588	GTCGCATCGCTTCCGTGTAG	569
588	GTCGCATCGCTTCCGTGTAG	569
1316	CCACTCACGCCATTCATAGG	1297
195	TGTGCTTGCTCACCATACGA	176
2516	TCGGTTCATTAGCATCAAGC	2496
1257	ATCGTCAAGGTAGAGAGAATCCAT	1234
186	CGGTCTTGAAGAGAAGGTAGGTT	164
1185	GTCGAACATCAGGCGTGAGC	1166
666	GTCGAACATCAGGCGTGAGC	647
124	TCTTCCATCCGGTTCCTACA	105
330	GAAGAGGTGTCCAGAGTTGCG	310
329	GAAGAGGTGTCCAGAGTTGCG	309
578	CGGTGATAGGATGATGGAAGC	558
781	GCAATTGGATCGAGTGTGAGG	761
1386	TGGTGTGTTATGGTTCCTTGTTG	1365
423	CACGCCAGGTCACATTCTCTT	403
1338	TATCCTTCCATCCGTCCGTT	1319
1663	TTGCACGATCTCTCGCCATT	1644
829	CAGCAGCAGAAGAAGATCCATT	808
782	TGGAGGCATAAGGTGATGTAGTCA	759
212	TGGAGGCATAAGGTGATGTAGTCA	189
175	GCTCTCTGGCAAGCCTCTCC	156
217	TTGTTGCTGTGGAGATTGGAA	197
299	TCTTCTTGTTTCATCACGGTTCA	278
299	TCTTCTTGTTTCATCACGGTTCA	278
305	GCTCTTCTCCACTCAGGTCAAC	284
268	CCGTTACTCTGGAGTCTTCCG	248
447	GCGGTACATCTGCTTCATCTTC	426
268	CCGTTACTCTGGAGTCTTCCG	248
1000	GATATTAATCAGAGCAGCTAGAAGGTT	974
953	GCAGTCTCACTTCCACATCGT	933
383	CAATTCTGCCGTTGTTTCAGC	364
360	AACTCCTCGCAAGTCCTACACA	339
329	CACATCAGCTTATTACTTGATGAGCA	304
336	TCATCCATTCAATTGCGTTGC	317
966	CGTATTCAGAAGAAGCAGGAAGTCA	942
278	GCCTTCTCGTATAACTCCTCCA	257
113	ATGTCTCCGCTTCCTCCTTC	94

111	TGGTTCATTATCGGCAGCAC	92
1257	GAGGAAGACGGTTGAAGAGTGAT	1235
643	GTACAAGTTGACATTGACACGCTT	620
674	GTACAAGTTGACATTGACACGCTT	651
220	GGTCGTTGTTGGTGTCTCT	201
184	ACAGTGTCTTCACGCAATTCC	164
195	ACATACTCGGTGTTGGATCAGTT	173
188	GCATATCACGATAGAGACTGTCAGTT	163
595	GCATCAAGTCCAGAGTTCATCA	574
595	GCATCAAGTCCAGAGTTCATCA	574
900	CATTGTAGACAAGAATGGACGAATCC	875
2659	GGTATTCATTGCTTCATTAGGTC	2636
289	ATTCGTCTGAGCATGCATCG	270
388	ATTCGTCTGAGCATGCATCG	369
145	CGATGAATTCTTCCGACTGG	126
296	ATGAAGTCGTCGGTGCATTC	277
431	ATGAAGTCGTCGGTGCATTC	412
479	ACGCAATGAGTTATGAATCCAAT	457
352	CGGCAACTGGAGAATCGTATG	332
1162	TTGCCATTGTAGTCAGAGCCA	1142
3470	GCGGATAGTGGACGAGAGAA	3451
934	TGGAGCAGTTGTGGTCGTTG	915
281	TGTTCCAAGTCATCCATACCAA	260
251	ATCCATCATCACCGTCAGCA	232
547	CAGCTGAGATAATTGCACCGT	527
248	AGCGTAGCGATGATCCATGA	229
474	TTGATAGCATCTGGCAATGTTG	453
122	AACAATCGGTCCGTCACAC	103
1246	GAATCGGCAGCGTCATCAGA	1227
1286	GAATCGGCAGCGTCATCAGA	1267
240	GCTTGAAGAGCTGTCATCTCG	220
638	CTGGTGGTCCGATTGGTCCT	619
963	GGCAAGAGTAGCACGACCAC	944
861	GGCAAGAGTAGCACGACCAC	842
1055	GGCAAGAGTAGCACGACCAC	1036
429	ACTAACACCAATTGAACGGACAT	407
763	GATTCCTGCTTCTTCCACGA	744
806	TGGTGGACGGTAACGAAGTG	787
353	GCATCCAATTCGCATCTCAT	334
472	ACAGCATCTCCTCCGCCTTC	453
383	AGCATCTCCTCCGCCTCTTC	364
186	TTGTAGGTCCTATTCCGAATGGTC	163
276	AACTTGTCGGCTTGTGGCTT	257
290	AACTTGTCGGCTTGTGGCTT	271

804	TGCAGCCATATCGATCGGAA	785
916	AGTCAGCACCACAGCGAAGA	897
1151	TCATAGACCATATAACCGCTACCA	1128
1240	GATCTAATCCAGTTCCAACCGA	1219
833	GTACATGAGTGACTGGAAGTGCTC	810
857	GTACATGAGTGACTGGAAGTGCTC	834
880	GTACATGAGTGACTGGAAGTGCTC	857
350	TGAGCATCCTTCCACTAGTTCG	329
324	TCCTCCTTGAGCGATTGTGA	305
507	GGTCGTTGAGACGGCGTGAT	488
810	GGTCGTTGAGACGGCGTGAT	791
124	CTCTTCTGGCGAGACGACGA	105
124	CTCTTCTGGCGAGACGACGA	105
324	TCCTCCTTGAGCGATTGTGA	305
124	CTCTTCTGGCGAGACGACGA	105
361	GCGTCGATCAGACGGTTGTAC	341
462	TTCTCTGCCTTCCTTCGTCATAC	440
573	TTCTCTGCCTTCCTTCGTCATAC	551
337	CGACTGCTCACCAATGCGTT	318
337	CGACTGCTCACCAATGCGTT	318
230	CTTATCAACGGCAGCAACTACC	209
551	ATCCATGGAGCACCATATGC	532
514	AATGACGCTTGGTGGAATC	495
624	GCCTTGATAAGTCCTGCGAA	605
647	GCCTTGATAAGTCCTGCGAA	628
1508	TTCCAACGCACTGACGAGGT	1489
626	CCGAGTAGGCAGGCACGAGT	607
788	CGACGGAAGTGATTGCGAAC	769
651	CAGATGATGTGGATGGAGTGTC	630
243	CCGAATCAACACGACGACAA	224
382	CGGCTGTTACAATTCGATGAG	362
1369	GGAAGTGAAGTGCCAATGTC	1349
315	TTCCTTCTTCACTGTTGCCAGAT	293
315	TTCCTTCTTCACTGTTGCCAGAT	293
318	TTCCTTCTTCACTGTTGCCAGAT	296
364	TTCCTTCTTCACTGTTGCCAGAT	342
1486	GGAAGTGAAGTGCCAATGTC	1466
364	TTCCTTCTTCACTGTTGCCAGAT	342
295	TTCCTTCTTCACTGTTGCCAGAT	273
648	CAATCCAGGAACTCCGACAA	629
1155	GGCTGGTGACTTATCGTGTGG	1135
1511	GGCTGGTGACTTATCGTGTGG	1491
368	GGATTGGTTCTGATGGATGGA	348
1317	CGCCAGTGTACCAATGAAGG	1298

210	AGTGATGCTCGTTCTTCACCTT	189
561	CGTTGTTCTTCTTCTGCGGTA	541
373	AACAACGAAGAGAAGAGTGAGAATC	349
175	ATATTGCCGGATCCTCAGCT	156
1498	TGACAGGTTGGTGTGCAGCA	1479
469	GGATCAGAAGTGTTGGCTGGTAT	447
614	CTGGTTGAGATGTTGATTGGC	594
272	TCCAGAGCAACGTCGTATAACTCC	249
897	GACGAAGTTGATCCTTCACAAGA	875
971	GACGAAGTTGATCCTTCACAAGA	949
532	GTTGATCTGCCACGTGACAA	513
610	GTTGATCTGCCACGTGACAA	591
808	TCTCAACTCACGCACATACTCAG	786
364	AGTGATGGTTGACTATGTCTGAGC	341
255	AGTGATGGTTGACTATGTCTGAGC	232
370	AGTGATGGTTGACTATGTCTGAGC	347
276	CAACTGACTCGGCATCTGGA	257
552	TCGGAAGAAGGTGGTGAACA	533
123	CAATGTCCTCTCGATTGGCTT	103
127	CCGACGATGCAACGATCTATC	107
470	CAGCATTCCCTGTCCGATTG	451
470	CAGCATTCCCTGTCCGATTG	451
322	CAGCATTCCCTGTCCGATTG	303
409	GGAGTACTTCTGTGAAGGATGGAC	386
559	CTCCGTATCCTTGTCGCTGA	540
1524	GGTCTGCTCGTATCCTGGCTT	1504
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149	GCTGGTTGAGATGGTTGGCA	130
1328	TTCTATCTTCCTCAGCCACGACTT	1305
816	TTCTATCTTCCTCAGCCACGACTT	793
412	AAGATTCGTGGAGCAACAACA	392
231	CCATCTGTGAGACTACGACGAA	210
936	TTGTCAGCGATGATATGAGACG	915
454	TTGTCAGCGATGATATGAGACG	433
586	GTGTAGCTGGTGGAGGCGAT	567
442	TTGTCAGCGATGATATGAGACG	421
1363	CGATTCTCATTATCCACATTGCG	1341
281	TGTTCCAGACCACAGATGACG	261
231	AGTTAGGTTGATGATTCTTGACAGTG	206
161	TGGCAGACAGTATTGGAGATGA	140
320	AGAGAAGTGTCAGGTTGAGAGCA	298
143	GCGGTATATCCATCCTGTCAA	123
148	AATTGAACTGGCGCAGCTAG	129
132	GTCAGTCCGATTAGGTACAAGT	110

1246	CGGAGATGGACTGGAAGGCT	1227
708	CACCTTCTCATTGGCATCGG	689
108	TTCTCCGAAGCGACCAGAGC	89
285	TTCTCCGAAGCGACCAGAGC	266
546	TGACAGACTGCCAAGTTCGG	527
594	TGACAGACTGCCAAGTTCGG	575
145	CCTTGGCTCGATCTGCATAC	126
193	CGTGCTTCAGAATTGCCAAG	174
264	CGTGCTTCAGAATTGCCAAG	245
1330	GTGTTCTTGGCATTGGCATC	1311
135	CAACCACACTCACAAGCAACA	115
164	GTGTTACGCAATTAGTCGCT	144
168	GGATTCACACGTCTTATCTGAATACGT	142
163	CAGCATAGGCGTTGACACAGT	143
284	TTGATTGACACGGATAACATCG	263
146	TTGCAGTTAACAGCTCCTGGTG	125
174	AGAGTCAGAATAGGAGTTGACACAGTT	148
473	AAGGCAAGAGCGTCAGTCAT	454
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238	GACCAATTGAGTAGAGTGAAGCCT	215
377	TTCCATTATCCAATAAGGAGACAAG	353
411	TTCCATTATCCAATAAGGAGACAAG	387
294	TTCCATTATCCAATAAGGAGACAAG	270
889	TGAGCATAGTCAGTGTTGACAAGA	866
358	AGTAGCGGTCCTCGAAGAAGA	338
859	TTGATAGCACTCCGTGTAGCG	839
687	TGAAGAGTTGGAGACGATTGC	667
1084	TGAAGAGTTGGAGACGATTGC	1064
2872	CGATGTGATTGTTGTCAGGAAGA	2850
604	GGTGAGTTGTTCCAGCGTCT	585
2847	CGATGTGATTGTTGTCAGGAAGA	2825
380	AAGTAGGTGTTGAGGAGTTGTTGG	357
350	CCAGCGATTGATATGGTGAGA	330
652	TCCGACTCTAGGTTCTCCGA	633
219	CACGGAGAATGTGGAGAGGA	200
98	GTGGAGATGTACTTGAACGAGAAGAATG	71
770	TTGTAGGTGCCAGTAAGACAACCTG	747
403	TCATGATTATGCATCGGATTAGTG	380
506	GTGTTGATGTTGCCGATGGT	487
185	TTGCATTGATGGATTTCGTG	166
1472	GGAGTCTGGTTGAAGTTGAAGTG	1450
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125	GGAAGGAATTAATGTCGTGAAGGAC	101
598	GAAGTTGTCACCGTAGCGAAG	578

453	CATTGGCGGTGTATCTGTCTT	433
684	TTCCAATGTCATCAGCCGTT	665
275	GAACAACAATACTGACACCGTCAA	252
867	AGCAGTAATACCATCATCATCA	843
1380	GAATCGTCACTTCATCATAATCGT	1357
460	ACAGAACACGCTGTGGATGC	441
116	TGACGAGCGATAGCAACGAA	97
1267	AGTCTCACGCATGTGCTTCG	1248
1207	GATGATGTGTAGGACTTCGGTGT	1185
1417	TTCAC TTGAGACGACTTCACTGTTC	1393
1207	GATGATGTGTAGGACTTCGGTGT	1185
1352	GATGATGTGTAGGACTTCGGTGT	1330
127	CCTTCACACACCGTCCTTGA	108
536	GCGACGTATGCACACTCTCA	516
132	AGAGGAGAAGGAAGACGAGGAC	111
1274	AAGTTGCGATTGTGCTACGG	1255
1274	AAGTTGCGATTGTGCTACGG	1255
1274	AAGTTGCGATTGTGCTACGG	1255
1390	CATGCGACTAGCCAGATTGC	1371
1491	CATGCGACTAGCCAGATTGC	1472
1492	CATGCGACTAGCCAGATTGC	1473
251	TCGCATCCTTGAGAGAGACC	232
3384	AGTTGGTGGTGGAGGAGGAA	3365
1802	GAATCGTTGTTGTCAGGAGGAGA	1780
2697	AGTTGGTGGTGGAGGAGGAA	2678
360	CGGTTGGCAGAAGAATGAAG	341
453	CGGTTGGCAGAAGAATGAAG	434
492	CGGCTCCACGTTCTTCTTCG	473
800	CGGACAAGACATCTGAGTTAGCA	778
916	CGGACAAGACATCTGAGTTAGCA	894
479	TCTTCGAATTGGAGCACTTCA	459
147	TCTTCGAATTGGAGCACTTCA	127
183	CCGAACAATGAACTTCCAGTG	163
417	CATTGAGCGGAATCGTAAGC	398
417	CATTGAGCGGAATCGTAAGC	398
694	CAGCAAGACGGTATGAAGCA	675
954	TGATATACACCTTGGCATCTTCG	932
262	CTCCACCGAACAATGAACTCTG	241
266	CTCCACCGAACAATGAACTCTG	245
262	CTCCACCGAACAATGAACTCTG	241
562	CTTGGAGTGTTAGTTGTTGGAGTTC	538
1315	CAAGCACTGAGGCAATGAGG	1296
1315	CAAGCACTGAGGCAATGAGG	1296
589	ACGGTGCATTGAATTGAGTACA	568

617	ACGGTGCATTGAATTGAGTACA	596
108	TGAGAATTAGCAGCCGCATT	89
387	TGAGTTCTGCGTTAAGAGTCTCC	365
108	TGAGAATTAGCAGCCGCATT	89
387	TGAGTTCTGCGTTAAGAGTCTCC	365
108	TGAGAATTAGCAGCCGCATT	89
387	TGAGTTCTGCGTTAAGAGTCTCC	365
294	GGTCTGATGTCGCATAGTTCGG	273
538	ACACATAGTCTCTGTTCCGGTGCT	516
668	TCATCTACTTCTTCACCATCTTCGG	644
227	GATTACCATTTCGTTCTCCACTT	205
283	CTGTTGGATTTCGTTGATGGAT	263
289	CTGTTGGATTTCGTTGATGGAT	269
177	TCACAACAACGCCAACGATA	158
701	GCAGTAGGTAGGCTAGATTGCTTCA	677
749	AATGACATTGGCGGAGTTCG	730
210	TGTAAGTTCATATTCAGCTCCACCT	186
502	AACTGCATCCTCGTTGGTGAG	482
352	TTGATTGACATGATGTACGATCC	330
1367	CAGGATCGTCTTCATTTCGGATT	1346
1415	CAGGATCGTCTTCATTTCGGATT	1394
569	GCTCTTGATTTCGTATGTGGCA	549
334	TGTTTCGTGTTTCATCATCAGGTC	313
334	TGTTTCGTGTTTCATCATCAGGTC	313
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317	GCGACTTCTGGCTCTTGCTT	298
117	GGAGTTGGCCTCAATGAGCA	98
648	AAGCGTATCAGAAGTGAGAAGGTC	625
348	TTCCATCCGATGAGCCATTC	329
378	TTCCATCCGATGAGCCATTC	359
434	CGAACGCTGCTGCTATCACAA	414
927	CAGGTTCTCGAGGTTTCAGGA	908
1472	CCTGTGAATATGCCATTGCTC	1452
1281	ATTGCCGCTGGTTATGATGT	1262
393	TTGATCGTTGTTTCGCTGAGA	374
181	CTCCTGGACTGCACCATTTCG	162
143	CCATTACGTACTCCGTCGAAG	123
148	CACTCGGCGACGACTACTAGG	128
420	CCAACGATAGACACGGCAAT	401
1567	ATTGATTGGCGTGTGATTCTC	1547
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979 GCAGTCCGTATCCGTAACCA	960
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117 AACTTGGACGAGATGATGACG	97
531 TTCCAATGTGACAGTCGGACA	511
797 CGTTGTGGCGAGGAGTATTGC	777
146 CATCACGCTGTCATCTGCTT	127
3535 CCACGATTCAACTGACGCCTA	3515
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151 CGTGATGTACTACGGCTTCAGAAC	128
134 ACACAGTGTACGTTCTCCTCGA	112
147 TGGTTAAGTAATTATTCCAATTCGTG	122
533 AGACTAACATACTCATCTGTCACACTGA	506
649 ATAGAACATAGGACTCAGCAGATAGCC	623
642 ATAGAACATAGGACTCAGCAGATAGCC	616
688 ATAGAACATAGGACTCAGCAGATAGCC	662
279 GCTAGTGCATTCTCACCGAGA	259
177 AACAAATGACACAATAAGTCTCGAAT	152
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151 CCGTCTGCTCTCGGATAGTCC	131
120 CCGCCTTCCTCACTCCGATA	101
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132 GAGCCGTCTCAGTGTTAATCTAATCC	107
144 TGAACCTTCTCCTCCTCATCC	124
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297 CATTGTGAAGGCTACTGCGTT	277
235 CGCTACATAGTCCTGAGCCAGTCT	212
610 ACTTGGTCGAAGCTGGACAG	591
884 GTGGCGTTAGTCTGTGTTGCT	864
159 CGAGGCTGACTGTGGTGGAG	140
266 AAGTGTGAAGAAGCGTGAAGGA	244
147 TTGCCATTGCCATTACCATT	128
185 CGGATACACCAACCACCAGA	166
184 CAGATGGACGGTTCAATCGAC	164

140	GCTTGAGGTTGAGTGTAAGTTCCA	117
136	GCTCCTGCGAATGCCTTGAC	117
162	GGATGGACGGTTGAAGCGTT	143
258	GGCGAGTGGTTGGTGATAAGTTC	236
160	CTGAAGGACGGTTGAATCGG	141
150	AGGAACAGCAAGACGACCAAGTG	129
180	AGGAACAGCAAGACGACCAAGTG	159
180	ATCATCGTCGTCGTCACCTCG	161
290	CCAAGCATCACTCGGAGACG	271
324	TTCTCTGTTCTCTCGGACACG	304
443	CCAAGCATCACTCGGAGACG	424
155	GGCTTCGGACAGATGTATCTACA	133
140	GGAACAAGTTGTAAGAGACGTCCTA	115
685	CAGAGGAACCAACAAGCATAGAAG	662
480	TGGAAGTGGAGGTGACGAGA	461
770	CGAGCTGTCAAGTTGTTAGCAG	749
442	GGAGTACACTGAACTTACACAGGAAC	417
1189	AGCCACGGTCTTCAGAGTATCC	1168
326	GCAACTTCTCGTTCGGCAGT	307
156	CGGAACTGTCGGATCATAGG	137
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131	TTATCGATGTCACACGTTGCA	111
693	TGAACAGGATATTGGAGCAGATTC	670
449	GTCCGTGGATTCTTCGCCAA	430
113	GTGTTCCAATGCCACCATCG	94
1103	TCGTCCTCGTTCCTTGCTC	1084
1039	TCGTCCTCGTTCCTTGCTC	1020
3765	CAACGACGAATGAGGCGAAT	3746
661	GATTCGCTGAGATGGCTTCG	642
192	CATGAAGTCCTGGTGACAATCC	171
873	GATATGTGACAACCGATCAGGAA	851
997	CAGAGTACGGAGAGGACTGAGG	976
168	GCGGACTTAGCGTCTGTGAT	149
1303	GTGATGGCAGCAATAACTACGGA	1281
3114	GTGAATCCACGAATATCCGAA	3094
811	GCCTCCGACGAATACTGAAC	791
876	GGTCAGATCTCCGTGTAATCC	855
911	ACCATTGCCAGTTAGTTATCAGG	889
1261	TTCTTACAACATACATCTGCTTCGT	1237
395	CAATGTAGTCGTCGTTGCGA	376
415	CAATGTAGTCGTCGTTGCGA	396
2169	TCGTCGTCAATGCCTCCTAA	2150
822	GAAGTTCAATAGCTCCTGCCAT	801
1095	CACCTTGTTGAGCCGTTGAC	1076

171	CAATCCAATTGCAGCCATTC	152
606	CAAGAGCCATCAAGTAACGGTAG	584
472	CAAGAGCCATCAAGTAACGGTAG	450
540	CAAGAGCCATCAAGTAACGGTAG	518
284	CGAAGTGGTGGCTGATGAAGA	264
383	CGAAGTGGTGGCTGATGAAGA	363
717	CGATAGTTCTTCAGATGATGATGCG	693
516	CGATAGTTCTTCAGATGATGATGCG	492
584	CGATAGTTCTTCAGATGATGATGCG	560
452	CGATAGTTCTTCAGATGATGATGCG	428
374	GTATCATCACCGTTGCCGTT	355
133	CCAATTCATACCTCTAATCATATATGCA	106
447	GGAATCCGACGTAACGAAGAG	427
446	GGAATCCGACGTAACGAAGAG	426
445	GGAATCCGACGTAACGAAGAG	425
286	AGCGAACTCCAAGAGGTCCA	267
1350	CCATACCACAAGACAATAGTGAGGA	1326
1350	CCATACCACAAGACAATAGTGAGGA	1326
1363	CCATACCACAAGACAATAGTGAGGA	1339
1350	CCATACCACAAGACAATAGTGAGGA	1326
1363	CCATACCACAAGACAATAGTGAGGA	1339
738	GGATGAATCAGATGTGGAGGTG	717
431	GCGACATCAGATGAGCAAGA	412
431	GCGACATCAGATGAGCAAGA	412
124	TTCTCTTCTTCAGCAGCAGCA	104
204	CCTCGATATTCATGTTGGCAA	184
525	CACAGCATGAAGATCGAATCTACT	502
174	TGTTGTTGTCCGCCTCCATT	155
625	AATGTGCCAGATACACTCCAGAA	603
252	ACGAGCAGCCTCTCCACAGT	233
282	TGGTTCAGCAGGCTCAGAAG	263
548	CAGTCATAATAACGGCAGTACACAA	524
299	TGAGAAGTATTCTGATTCATTCGC	276
358	TATCCAACCAAGAACTACATCGTC	335
858	CGTGCGTAGTCCGTGATAGC	839
555	TGGTATTCGTATTCACACTTACACTG	530
593	AATGGAATGATGAGAAGGTTGC	572
154	TTCGCTGCTCCATTCACTGC	135
182	TGCCACAAGAACCACGAGAA	163
634	TGACTTCTCCTCCTCGCTCA	615
163	TCAACGACAACATCAGACAGGT	142
493	CCTGAGTAGCAGAGAACAATCCG	471
3129	GGTAAGTGGTGGAGGAAGTGGTG	3107
162	ACGTCATCGGTGAGCTTCAG	143

3392	GCTACGACCTCTTCTTCTACTCCA	3369
3471	GCTACGACCTCTTCTTCTACTCCA	3448
3390	GCTACGACCTCTTCTTCTACTCCA	3367
1352	GCAAGTGTTCCGATTCCATTC	1332
1289	GCAAGTGTTCCGATTCCATTC	1269
204	TTGATATCTAACGTGTTGTTGATCATC	178
157	CTTCGTCCGCAGGAATATCG	138
257	GATTCTGTCATTCTTCGTCACT	235
895	TTGAGGTTGTTGAAGGTTGTGC	874
424	CTGCGTTGTTGCCGATTACC	405
565	GGTCGAGCAAGAGACGCACT	546
889	GGTCGAGCAAGAGACGCACT	870
404	TACAATCGCTCGCTCAATGG	385
198	TACAATCGCTCGCTCAATGG	179
227	TACAATCGCTCGCTCAATGG	208
198	TACAATCGCTCGCTCAATGG	179
400	AGGAAGAATTGCGAGCCGTT	381
1386	AATCACAGGCAACGGCAGAG	1367
732	GGCGTCTTCTTCGTCCTCAT	713
3870	AACTTGAACACTAACTTCTCCAAGT	3845
662	CGATGATAGTGATCTTGAGGTGAA	639
732	GGCGTCTTCTTCGTCCTCAT	713
732	GGCGTCTTCTTCGTCCTCAT	713
741	GGCGTCTTCTTCGTCCTCAT	722
2461	TGTCACCTTCCAAGCTACACG	2441
2461	TGTCACCTTCCAAGCTACACG	2441
1540	TGTCACCTTCCAAGCTACACG	1520
2617	GAAGTGGAAGTACCGAATCATTG	2595
128	GATTGTTCCGACCGAATTGTC	108
761	GCAGAAGCCATCCATCCAAT	742
1156	GGTGGTCATAACAAGGAAGAGAA	1134
1185	GGTGGTCATAACAAGGAAGAGAA	1163
199	GCTTCTCAAGGATCTTATGACATCT	175
199	GCTTCTCAAGGATCTTATGACATCT	175
199	GCTTCTCAAGGATCTTATGACATCT	175
1531	GGAATGGAATGTGAATGAAGAATC	1508
1531	GGAATGGAATGTGAATGAAGAATC	1508
1531	GGAATGGAATGTGAATGAAGAATC	1508
813	CCGCCGTACATGATTACATTCC	792
159	GAAGAGTTCCGAACGGCATAG	139
608	GATGAGGATGCGGATGGAGA	589
254	TCGAGGACTTCTTGAACAGTGTT	232
245	TCGAGGACTTCTTGAACAGTGTT	223
299	TCGAGGACTTCTTGAACAGTGTT	277

499	TTGAAGTATTGACTGGCGGATGA	477
131	GCTACTCTCACCTACTGCTTCATTG	107
160	GATGATGAAGGCGCATCGAA	141
217	GAAGTTGTGGATCGTTCAGAGGTAG	193
2263	GGACGAGAATGCTTGTATGGAAC	2241
2293	AGGCGATGAAGACGAGGAAT	2274
2245	AGGCGATGAAGACGAGGAAT	2226
2254	GGACGAGAATGCTTGTATGGAAC	2232
217	GAAGTTGTGGATCGTTCAGAGGTAG	193
145	ATTGAATGTCAACGAGAACGAA	124
773	GAGATGCTTATTGACCGTTGATG	751
136	GAGATGCTTATTGACCGTTGATG	114
261	GAGATGCTTATTGACCGTTGATG	239
821	GAGATGCTTATTGACCGTTGATG	799
173	TCCGAAGTTGGAGCCGAGTT	154
224	CGTGGTCCTCCACCTATAATTGC	202
367	TCTTCTCAATGCGATCCTTGT	347
593	GTTGGTCCGATGATTACGCT	574
1125	ATCAAGGCATCCACCGACAA	1106
1609	TGGTGATGGAGAAGAGACGGT	1589
539	CGTCTCATCCGCCAACACAT	520
579	CGTCTCATCCGCCAACACAT	560
981	ATGATGGACTGGACGAGAGC	962
629	TCATAGTCCTGGATTCCGTGAT	608
670	TTGTCATTCCGCCGAGTTCT	651
348	TGCTAACATTCCAACATACTGCT	324
129	GCCGACCAGAAGAAGTATCCA	109
129	GCCGACCAGAAGAAGTATCCA	109
723	CACAGGAGCAGAACATTGAGCA	702
673	ACCGACTGAAGACATAACTGCGA	651
758	ACCGACTGAAGACATAACTGCGA	736
646	CCAATCTTCAACTCTCATACCACCA	622
147	GGTCGTTCCGGTTAGTTGGCT	128
195	GCAACAATCAAGACAATCCGT	175
141	TAGGAGGCACATGCGAGAAC	122
1328	GAACTGGTGGACGGTATCGG	1309
1348	GAACTGGTGGACGGTATCGG	1329
1348	GAACTGGTGGACGGTATCGG	1329
91	GGACGAGACCTTGTGAATGG	72
187	TGAGGAAGAATACGTTGACATCA	165
4392	CAGACAGGATGAGCAACGGT	4373
402	GACGAAGCAGCAGGTGACAT	383
402	GACGAAGCAGCAGGTGACAT	383
3144	TACACGACGAAGACGGCGAT	3125

402	GACGAAGCAGCAGGTGACAT	383
402	GACGAAGCAGCAGGTGACAT	383
200	ACCTTGTTTCGGTTGTTGGCT	181
122	ACCTTGTTTCGGTTGTTGGCT	103
122	ACCTTGTTTCGGTTGTTGGCT	103
324	GTTGCGAATGGATTGGCGAT	305
225	TGAGATCAACGACAGACTCCTTC	203
275	CGATTAGAAGGTGGTGGTGATG	254
287	TTGGAATTCGGTTACTTGGC	268
619	ACGTGGATTGCGAAGAGTTC	600
819	AGAGAATGCAACTGATGGAAGAG	797
430	ACACCGTAGACGTGGAAGTTG	410
933	CCTACAGTGACCATTCTCCA	913
933	CCTACAGTGACCATTCTCCA	913
705	CGGAATATCATCTGAGTGGAGTC	683
573	CGGAATATCATCTGAGTGGAGTC	551
444	CGGAATATCATCTGAGTGGAGTC	422
739	AATGAGATGGAATTACTGGACGTT	716
734	AATGAGATGGAATTACTGGACGTT	711
273	TCCTTCTCACAGTCCAAGCC	254
375	ATCCACAGTCATCGCCTTCC	356
126	ATCCACAGTCATCGCCTTCC	107
138	GAACGGCAATGTATGATGGAA	118
209	GAACGGCAATGTATGATGGAA	189
190	ACGAGTCTGGCGATCCAAGG	171
390	CACTTGGACGTTCTGATGAAGA	369
129	CAGATCAAGATATGAGTGGAGCAGTT	104
145	TGAAGAGACGCAGACACTCG	126
445	TGGAGTGATTGTATTGAGTGGCT	423
512	TGGAGTGATTGTATTGAGTGGCT	490
427	GGCAGAAGATGAGCTTGTGAA	407
214	GGCAGAAGATGAGCTTGTGAA	194
355	CCGTCGTAATGAATCTACAACA	333
650	GAACGAAGCGGTGGTGGAAT	631
662	GAACGAAGCGGTGGTGGAAT	643
190	TCATCATCTACGGATTCCTGTGG	168
150	TACGCAGTAGGCAGGCTTGT	131
277	ATTGTCAACGGCATCAGCAG	258
124	AATGAACTACACGCCTGGATCA	103
2497	CTTCTTCTCACCGCCACCAC	2478
2497	CTTCTTCTCACCGCCACCAC	2478
3454	CTTCTTCTCACCGCCACCAC	3435
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1971	CTTCTTCTCACCGCCACCAC	1952

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401 CCGGTGTACTTGAGAACGGT	382
129 CTCGCCTCGGCATCTCTCAT	110
850 GAAGAAGTGCGGAGCTGTACA	830
331 TTCGTTCTCAATCACAATCG	311
1195 GGTCAGCAGAGACATCATCATTG	1173
82 TTGAAGTTAGCACGACGAACG	62
88 TTGAAGTTAGCACGACGAACG	68
291 GGCAAGAACGGTGGTGAATC	272
573 AGACCATTGAACATTGAAGCG	553
217 CAAGAACGGTGGTGAATCGC	198
103 GGCAAGAACGGTGGTGAATC	84
387 GGCAAGAACGGTGGTGAATC	368
248 GGCAAGAACGGTGGTGAATC	229
210 GGCAAGAACGGTGGTGAATC	191
88 TTGAAGTTAGCACGACGAACG	68
259 GGCAAGAACGGTGGTGAATC	240
255 GGCAAGAACGGTGGTGAATC	236
82 TTGAAGTTAGCACGACGAACG	62
258 GGCAAGAACGGTGGTGAATC	239
256 GGCAAGAACGGTGGTGAATC	237
82 TTGAAGTTAGCACGACGAACG	62
211 GGCAAGAACGGTGGTGAATC	192
88 TTGAAGTTAGCACGACGAACG	68
259 GGCAAGAACGGTGGTGAATC	240
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256 GGCAAGAACGGTGGTGAATC	237
387 GGCAAGAACGGTGGTGAATC	368
248 GGCAAGAACGGTGGTGAATC	229
483 GAACTCGTCGTGTCGATCATC	463
137 TTGGAAGCAGCAGCAGAATG	118
310 TGATGAGGAGGTCACAGTTGC	290
794 AATACATCTCTTGGTGGAATCTTGA	770
694 CTTCTTGTCTGGTGTGGCA	675
334 TTCGGATGAGCTTGCGGATA	315

240	TTCGGATGAGCTTGGCGATA	221
456	CGGAAGGAATGCGATGTCTT	437
153	ATCTGCGTCTCCGAGCCTCT	134
270	AAGTGTAGAGCTTCGCACATGA	249
1490	GAAGTCTTCCTCCGTCTCCAA	1470
220	AGGAGGCACTTCATAGTGTAGAGC	197
119	TGACTATCGGTTCTTCAGCAGTT	97
200	TGACTATCGGTTCTTCAGCAGTT	178
291	TGAGAGTGGTCCAAGAACGG	272
249	GAGCATCATCCTGTTCTTCCA	229
1319	TCTTCTTCTGATGATGTGATGAGG	1296
776	TCTTCTTCTGATGATGTGATGAGG	753
200	GGTTGTGGCTGCTGATGCTT	181
184	CTTCTTCGACGTTGCTTCCA	165
269	CAGTCGGTGGTGGAATAGAGAA	248
258	CAGTCGGTGGTGGAATAGAGAA	237
529	GCTCTCCTACGTGGTACATATCTCC	505
535	GTCCTGTTGAGATGACTACATTTCG	512
577	GTCCTGTTGAGATGACTACATTTCG	554
181	TGAGTTGGAGATGTGGCTGA	162
392	ACGCACGTCGTCACAAGAGC	373
558	ACAAGAGCGCCACCTGATGA	539
435	CAATCGCAATTCACGCATTTC	416
244	GGAGATGGCACGCAAGAAGA	225
382	GGAGATGGCACGCAAGAAGA	363
336	GATGACATGATCTTCAGGAATATCG	312
525	CAGAACAAGAGCGCCACCTG	506
370	GACACACGAATCGAGCTTCTC	350
1716	CCATTAGAAGCATACAGCATACGAGA	1691
229	CGGAGCTCGGAGTCACTTGC	210
725	AGACGCAGACGAATGTGGTG	706
233	GAGTTCACTGAAGGAGAATCTCTACC	208
233	GAGTTCACTGAAGGAGAATCTCTACC	208
2466	CATTGTCCAGAGAACATCAGAGAG	2443
2400	CATTGTCCAGAGAACATCAGAGAG	2377
2444	CATTGTCCAGAGAACATCAGAGAG	2421
2448	CATTGTCCAGAGAACATCAGAGAG	2425
2426	CATTGTCCAGAGAACATCAGAGAG	2403
2418	CATTGTCCAGAGAACATCAGAGAG	2395
608	TGGCTCGTGGTAACTTCATTTCG	587
659	TGGCTCGTGGTAACTTCATTTCG	638
127	GTGACGCTGGATCAGCTGCT	108
147	TTCTCTTCTATTGACGATCCAC	125
136	GAGGTTCCGCCAATACAATG	117

218	CGAGGTTCCGCCAATACAATG	198
842	CGATTGTAATTCTGAGTTGGTGA	819
881	CGATTGTAATTCTGAGTTGGTGA	858
509	AAGTGACGTAGACTGTACAATCGTGAAG	482
912	AATGGAGAAGAGAAGACGACAGAA	889
912	AATGGAGAAGAGAAGACGACAGAA	889
146	TCGGTCGATTCTTGAGTACCTT	125
541	TGTAAGAACAATCATTCGCCAA	520
1039	CGGATGACGATGATGCTTCTC	1019
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850	GAGGTTCTGGTAGGACGTGAGA	829
450	GATAATATCTTCATGTGAGACACAGTCC	423
111	CACAGCCATTGCATGTCATG	92
142	GCCAGCTGCAGATTCATGTAG	122
134	CTTGAGAACGGCGGTGAATG	115
180	CTTGAGAACGGCGGTGAATG	161
303	GTCAGTCTTCTGCGGATGGC	284
303	GTCAGTCTTCTGCGGATGGC	284
319	GTCAGTCTTCTGCGGATGGC	300
145	GCATTCCAGTTGATGTTGAAGGTA	122
1684	TTGTTTCGTCCTCGTCGTCTC	1665
751	TTGTTTCGTCCTCGTCGTCTC	732
451	CGATATCAATGCACGCCAAT	432
522	GGACATTGTGAACAGATCGTAAGTG	498
342	CTGGAGTAGCGGAGTTGGTG	323
1728	AAGCCATTGAATAGATGAGTTGC	1706
1839	AAGCCATTGAATAGATGAGTTGC	1817
148	TTCCAATTGCTCTGACTGCTG	128
148	TTCCAATTGCTCTGACTGCTG	128
1355	CGATAATGAGCAAGTTCCGTCT	1334
274	CTTGGTTCCACAGCGTACAGT	254
532	TTCTTGCCTCGACATCTGAGC	512
323	AGTACCATTGCTGTCAAGTGCAG	302
341	GATTGAGTCTTGGCTTCTGGAT	320
126	TGTCCTTGAAGAGTCGAACATG	105
307	TTGTACACATGGCAATCAGAGAA	285
456	AACCGTATCACATTCCAGTATTCG	433
173	CAGCATCCACAGCAGTCATCA	153
448	GATTGGTGCGTTGTCTTCCG	429
505	CAACTGGAAGTGGATTCAAGTCT	483
801	CGTAGCGGTAGGAGTGAACATC	780
101	TGATGATTGACTCACTGGACTCC	79
1039	TTGAGACGATTGATGGAAGTGATC	1016
1162	TTATTGAGACCACCTGTCGCT	1142

310	GAAGAGATGTTAGAGATGATGAACCA	285
970	TTATTGAGACCACCTGTCGCT	950
209	GAAGAGATGTTAGAGATGATGAACCA	184
817	TTATTGAGACCACCTGTCGCT	797
548	CGGAAGTTCACAATACAATCGTC	526
204	TTGAACCTAACATTCTCCACATTG	181
1168	GACAACTGGAGAGGCGTAGG	1149
540	GACGGTGGTGAGCACACTTC	521
1037	GACGGTGGTGAGCACACTTC	1018
426	CACTGGAGATTGAGCCTTGG	407
638	TCAGATGGTAGAGATGGTGGAGA	616
354	TCCAACAAGATTCATTGTCATTG	332
707	TCAGATGGTAGAGATGGTGGAGA	685
325	ACCACCACAGAATCCACAGG	306
211	TTGTTGGCACAGTCGTAGAATG	190
602	CGATGATTCACCAGACATTGTG	581
336	ATTCCACACACAATGCAACGA	316
1381	CTTCAGAAGTTGTACTCAGTTGTGC	1357
173	TTCTCGTAGTAGCGGTATTCTTCTTG	148
652	ACGTACTCCTTCAGATTGTCCAA	630
453	GCACGGAGAATGTCACGAAG	434
1210	TGCTTGCTTGAAC TTGACAGATGA	1187
398	TTCTGGATTAGACTTCTTGAGTAGAGAG	371
398	TTCTGGATTAGACTTCTTGAGTAGAGAG	371
1443	CACCTCGCTCATGCTATTCTG	1424
1066	GAAGATGCTGTGCTTGTGGATGA	1044
1198	GAAGATGCTGTGCTTGTGGATGA	1176
452	TGATATGGTGTATAGGTCAGAATAGCTC	425
873	GGCATCTCATTGATCTCGCT	854
148	GCAACGAGAATGATGAGATACG	127
806	GGAATTGACTCGTAGCGGATG	786
1238	TGTCTCTCCGTTGTCAAGTGTG	1217
686	CTGGAGATACTCGCATTGAGAGT	664
451	ACGAATACAACAGGAACCAAGG	430
241	AGACGACAGGTCTCTTGCCA	222
241	AGACGACAGGTCTCTTGCCA	222
1291	GAAGATCACACAGCAACCGAT	1271
155	GGTACTCAGAGTACTGGACGAACA	132
120	CATTCACGCCGCTTCCTTCT	101
1214	AGTCGCAGAGGCAGAGAAGA	1195
1156	AGTCGCAGAGGCAGAGAAGA	1137
194	GCTGCTCATCGGACAGTTCT	175
1638	CAGAGATTGGTGC GTTGTAGATAGATG	1612
129	GAATGGATCAGCAGATGAAGC	109

227	CACAAGAAGAAGGCGGCTAC	208
98	GTTGATGTTCTCAGCATTGGTG	77
97	GTTGATGTTCTCAGCATTGGTG	76
151	GCTCTGCCACATCATTGCCA	132
280	GTGTAGCGGTGAGAGTTGGC	261
278	GTGTAGCGGTGAGAGTTGGC	259
634	CATTCTCGCCTCTTCTTCTGA	613
206	CCGATCTGGTTGGATTATTGTGA	184
510	GATCAGTTCTTCGATGGTAGCTG	488
655	GGCGGTTAATAATTCTATTGTTCTGA	630
154	GCTTCAGTGTAGAACCATCCG	134
331	GCGAAGGACATGACAAGCAA	312
1236	GATGATGGTGTTGTTGGTCCGA	1215
279	CAGTGTAACCTCCAATGTAATCCA	256
338	CAGTGTAACCTCCAATGTAATCCA	315
4784	CATCCACACAGTCATCATTATCCTC	4760
3667	TGCTGCTTGATAACCACTGATG	3646
577	TTAGATGTGCCTCTGTACGGAA	556
3667	TGCTGCTTGATAACCACTGATG	3646
403	CAAGATGACGAATGTCTGTGTAGC	380
669	CAAGATGACGAATGTCTGTGTAGC	646
586	CAAGATGACGAATGTCTGTGTAGC	563
272	AACCAACTGCTGTTCCAATACC	251
200	GCTGCTGGTGGTAGTGGTTC	181
639	TCATGTAGAAGCGAAGAAGGACA	617
610	TTACGACAGTTGGCTCCATGA	590
564	CCAATACCACCATCCGACAT	545
737	AACAAGTTATGCCACATCTCCAC	715
591	ATGGTAAGTGATGTCTTCAGCAAC	568
937	GCATCAGGAAGTAGACAGCCA	917
574	CATGAATATCCTGGTGTTCCG	554
266	GCATTGTTGATAAGAACTGTAAGGC	242
995	GCCGAATCATTAGCACGACA	976
799	GTGGAGAATATGGCTCAGAGCT	778
782	GGAATGAATGAGATTGGAGTTGTC	759
729	TTGGAGAGCGTGGAGGAGTA	710
272	AACGGTGCCATCCAGAGGTA	253
242	GGAATAAGCGTGAAGTCAGGTG	221
1181	CAGTTGAAGCACCGTAATGTTG	1160
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1181	CAGTTGAAGCACCGTAATGTTG	1160
588	CTGGCTTGTCGTCCTTCTTC	569
327	GCAATCTCTCCTCATTCTTCTGG	305
378	CACCAACACATTGTATCTTCCG	357

389	CACCAACACATTGTATCTTCCG	368
266	CCATTGCTGAGACAGCCATG	247
250	CCATTGCTGAGACAGCCATG	231
266	CCATTGCTGAGACAGCCATG	247
151	GCTTGTTAGAATGGTTGAGCGATC	129
159	CTCCGAGACACGAGCCAGTA	140
151	GCTTGTTAGAATGGTTGAGCGATC	129
281	TGTAAGAAGAAGCTATTGAACAGTTGC	255
840	TTCCATTGCTCCTCCTGTCA	821
1112	GGAATGTGCTACGCCACTTAG	1092
321	GGCGAATATGATGCTCCGAA	302
321	GGCGAATATGATGCTCCGAA	302
172	ATGACGGCTGTGTGATGACTACT	150
192	GATCTTGAAGACCTCTGGTAGCC	170
265	TCTCGTCATCATCATCATCCG	245
146	GCACATCACGTGACAAGACAA	126
281	GGCAATGTCCATGTCCTCTT	262
305	AGACTCTGATGATATCTTGAACGTCA	280
333	TTCACAGCATTCTGTAGCGATG	312
429	TCCTCACAACAATCGTCACAA	409
773	GCATACCAGCGAGACGTGAA	754
720	GCATACCAGCGAGACGTGAA	701
838	TGATGATGAAGATGGAACAAGTAGA	814
1385	ACTTGGCGTCCTTCCTCATC	1366
1355	ACTTGGCGTCCTTCCTCATC	1336
1343	ACTTGGCGTCCTTCCTCATC	1324
846	CATTGGTGCTCGGAAGGATT	827
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783	CATTGGTGCTCGGAAGGATT	764
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231	CATTGGTGCTCGGAAGGATT	212
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231	CATTGGTGCTCGGAAGGATT	212
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177	TCCATTACTCGAATCAAGAGAGATG	153
1662	AGTCGTTGGCAGGTATTCA GTT	1641
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5270	TATCACATCCAGCCATTCCG	5251
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5270	TATCACATCCAGCCATTCCG	5251

5270	TATCACATCCAGCCATTCCG	5251
5270	TATCACATCCAGCCATTCCG	5251
6216	GTCTCCTCTCCATAACCTCCATT	6194
6816	CGTCTCCTCTCCATAACCTCCATT	6793
5276	TATCACATCCAGCCATTCCG	5257
869	CAGTTACAAGGCGGAATGGA	850
295	CCTCCGTGTCCACTGTACTCAA	274
2779	GACTGAGCATACAAGAACGAAGG	2757
506	GTGGTCACTGGAGCAGCAAC	487
158	CAAGGCAACAGCTGGCTTCC	139
122	TCAATCTCTCGTCAATGACCTG	101
356	AACACTACTGTAATTCCACGTAGACG	331
400	AACACTACTGTAATTCCACGTAGACG	375
1134	GATGTTGGCACGGTCTCTTG	1115
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1161	GATGTTGGCACGGTCTCTTG	1142
209	CGTCTGAGGAAGCCAGCACT	190
444	CATAAGAATGGATGTTCCGTTGA	422
169	GACCGATAGTGTCTTGGA	150
1550	TGACAAGTTCTGAGACGAGCAT	1529
164	GCATGTCTCACCGTCTATCACA	143
841	CGCTGATATTCATAGATTCCAGTAGT	816
974	TTGATAGAAGCATGGCAGTGTT	953
229	GTGGAGTAGACGGTGAAGTGGT	208
129	CGACCATCTTAATTGCACCTG	109
460	TGGACCGAATGGAAGATGAC	441
120	GCGAGCACACGTTCAAGTCA	101
408	CGAACACACGGAACACAACG	389
418	CGAACACACGGAACACAACG	399
375	TGTA ACTCTGATAGCGTTCCAT	353
206	ATTGTTGAGTTGGCGAGCAT	187
121	GGAGACGGAGGTAGACTGGAA	101
2011	CTTGGATGGTTGGTTGAGCA	1992
2037	CTTGGATGGTTGGTTGAGCA	2018
533	GATTCTGAGTGTCTAGTTGATCG	510
188	GATTGTTGGTCAGCGTTCATTG	167
600	CGACGACCATAGCAATAAGAGC	579
152	ATGCTTGCGTGGCTTGTA	133
376	TTATCTGCTTCTGTCGTGGCTT	355
180	CGCCTTGGACGATAGACGAT	161
180	CGCCTTGGACGATAGACGAT	161
1121	GCCATTCTCTCCTCCGACAA	1102
310	TGAACTCGATGCACTGTCGTTCT	288
128	AGCATCCGTGACTGTACATATCC	106

235 CAATGTCTTCCACCTGTATAGGTATGTG	208
167 GCCTCGTTCATAAGTCTTCGCA	146
227 TTATAGAGCGGATCAGCGCAT	207
668 CATAGGCGACGGTGAACAAG	649
127 TCACTTATCCACTTCAGTCAGTCG	104
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261 TGAGAACTCGGCGTATTGCT	242
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1787 CTATCAAGCAGATCACTGAAGAGC	1764
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1826 CTATCAAGCAGATCACTGAAGAGC	1803
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585 ACTACAGCCTTCAATCCTCCAA	564
195 ACTACAGCCTTCAATCCTCCAA	174
585 ACTACAGCCTTCAATCCTCCAA	564
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275 GGTGCACATGGATTGTTGGA	256
380 GGCACAACAACCATTACAGAACAGT	356
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Reverse Melt Temperature

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