

Name	5'	Sequence	3'
a) Bephore			
PC		CAACCGGCTTTTT P GCCGGTTGATTGATTTAGGAGTAGTGA GCGCGATAGGCT B GAGGC	
PH		GCCTATCGCGCTCACTACTCCTAAATCAAT	
DIS		CTATCGCGCTCACTACTCCTAAATCAATCAACCGGC	
FL +DIS		FL CTATCGCGCTCACTACTCCTAAATCAATCAACCGGC	

b) Primers			
Fwd (Primer)		TGCCACCTGACGTCTAAGAA	
DIS+TT+ S +TT+Fwd		CTATCGCGCTCACTACTCCTAAATCAATCAACCGGCTT S TTT GCCACCTGACGTCTAAGAA	
Rev (Primer)		ATTACCGCCTTTGAGTGAGC	
FL +TT+Rev		FL TTATTACCGCCTTTGAGTGAGC	

B: Biotin

P: Photocleavable spacer, IDT

S: Spacer 9, IDT (triethylene glycol spacer)

FL: ATTO 532 or Alexa Fluor 647

a) DNA strands used as components in Bephore.

b) Primers for the generation of linearized templates for fluorescent proteins.

Modifications are colored in red. DNA strands were purchased from Integrated DNA Technologies Inc. (IDT).

Gene coding for the fluorescent protein YPet (used in Figures 6-8 after PCR with modified primers Fwd and Rev):

<p>Fwd Primer– T7 promoter – RiboJ - RBS (BBa_B0034) - YPet – Terminator (ECK120033737) - Rev Primer</p> <p>tgccacctgacgtctaagaaaccattattatcatgacattaacctataaaaataggcgtatcacgaggcagaatttcagataaaa aaaatccttagctttcgctaaggatgatttctggaattcgagtaagcccctctagaggaccacgcatcgtgatgcctatgcgcggtag tcccacctgtccactagaatggaagattggcacgtatcaagactttggagtagtaccataacgccgtaatacgactcactataggg tagcgcagcgtcaacgggtgtgcttccggttctgatgagtcggtgaggacgaaagcgcctctacaataattttgttaatcatgag aaagaggagaaaactagatgtctaaagggtgaagaactgtttacgggtgtcgtgccgattctggtcgagttggacggcgacgtgaa cggtcacaaattcagcgtgagcggcgagggcgaggggtgacgcgacgtacggtaagctgactctgaagctgctgtgcaccacgg gtaaattgccggttccgtggccgaccctggtcacgacgctgggttatggtgtacaatgtttgcacgctatccggaccacatgaaac agcacgatttctcaagagcgcgatgccggaaggctatgttcaggaaacgtaccatcttttcaaagatgatggttaattacaaaccc gcgagaagtgaagttcgaggggtgacaccctggtgaaccgtattgagctgaagggattgacttcaaggaagatggcaatattctg ggtcacaactggagtacaactataacagccataacgtctacatcaccgcggataagcaaaaaaatggtatcaaagcaaatttc aagattcgccacaacatcgaagatggcggtgcaactggcgcgtatcattatcagcagaataccccaatcggtgacggtccggtg ctgttgcgggataaccactacgtgactatcaaagcgcgtgttcaaagaccggaatgaaaaacgtgaccacatggttctgctgga atttctgaccgctgcgggcatcactgaaggcatgaatgaactgtacaagacgcgtggtggcgcggttcgatgagcaagactatc gtttgtccgtcggcgaggctaccgtaccttgaccgaaattcaatccaccgcggaccgtcaaattttgaggaaaaagtcggtcctc tggtgggtcgtctcgtctgaccgcgagcctgcgccagaacggtgcacaaacggcataaccgtttaatctgaaactggatcaggc cgacgttgggacagcggctctccgaaagtccgctacaccaggtgtggagccacgatgtgacgatcgttgcaatagcaccga agcgagccgcaagagcctgtacgacctgaccaagagcctggtggcaacgtcccaagtgaagatcgtgtgtaacctggtgcc gctgggtcgttaaagcatgccggaggaaacacagaaaaagcccgacctgacagtgcggtgttttttcgaccaaagggtg cactactagtagcggcgcgtgcagtcgggcaaaaaagggaaggtgtcaccaccctgccctttttcttaaaacgaaaagattactt cgcgttatgcaggcttctcgtcactgactcgtcgtcgctcggtcgtcggtgcggcgagcggtatcagctcactcaaaggcggt aat</p>
