

Supplementary Table 1. List of primer sequences for gRNAs, qRT-PCR, 3C, and ChIP qPCR.

gRNA Sequences		
Name	Sequence 5'-3'	CLOuD9 Construct
HBB Promoter Pair 1	TAGTCTGGGTATACTTAGAGG	CSA
LCR Pair 1	CTAGAGTGATGACTCCTATC	CSP
HBB Promoter Pair 2	AAGTTGATGCACTAAAAGTGG	CSA
LCR Pair 2	AATATGTCACATTCTGTCTC	CSP
Oct4 Promoter	CTTATGGCTGTTGATGCATTG	CSA
Oct4 Distal 5'Enhancer	CTCTTTGGATCGCGTCACTC	CSP
qPCR Primers		
Primer	Forward 5'-3'	Reverse 5'-3'
β-globin	TGGGCAACCCTAAGGTGAAG	GTGAGCCAGGCCATCACTAAA
Oct4	TGTACTCCTCGGTCCCTTTC	TCCAGGTTTTCTTCCCTAGC
GapDH	ACCACAGTCCATGCCATCACT	CCATCACGCCACAGTTTCC
3C Primers		
β-globin		
Name	Primer Sequence 5'-3'	
3C B/HS	TCTTAGAAAGCCTTTACAATTTCTTTATC	
3C 3 Beta	AGCTTAGTGATACTTGTGGGCCA	
3C Beta	GCTCGGCACATGTCCCATCCAG	
3C Delta	AAAAAATGTGGAATTAGACCCAGGAATG	
3C 5 Delta	GGGTGTGTATTTGTCTGCCA	
3C G/A	AATTTGAAGATACAGCTTGCCTCCGATAAG	
3C Gg	GGGTTCATCTTTATTGTCTCCT	
3C E/G	CCACCCCGATAAAGATTTTTCTCCATCA	
3C HS432	CCAAATGGGTGACTGTAGGGTTGAGA	
3' HS1	ATTCCCGTTTTTATGAAATCAACTTT	
3' 3'HS1	CTCATAGATTTCTCAATGGCCAAA	
Oct4		
Name	Primer Sequence 5'-3'	
PromoterF1	TGTGCCTTCAGGGGCCAGTC	
PromoterF2	AGTCACCCTCTCAGCTCCTCA	
PromoterR1	TGGGGTGAAATTTGGCAGGCT	
PromoterR2	AGGCTGGGCAGATGGTGCCA	
5'EnhF1	CAAAGTCACACTGCACCCGCT	
5'EnhF2	ATGTGGCTCCCTCCCATGTAC	
5'EnhR1	CACTGGCAAGGATTATCTCATG	
5'EnhR2	TGTGTCCAGTTGCCAAATGAGG	
DistalEnhF1	CAGGGCACACACACTTTTGCAG	
DistalEnhF2	GTATCCAAAAACCCAAGCCAGGTC	
DistalEnhR1	TAGCAGGCCCCCAAGGAGGA	
DistalEnhR2	ACTGGGAAGGAACTGGCACT	

3'EnhF1	TGCCATTACCATCCCACGGT
3'EnhF2	CTAGGGGAGAAGCCCGGGTTG
3'EnhR1	TGGTCCCCACTTCCCCAGGTG
3'EnhR2	GCGGGAACAGGCAGGCTCT
ChIP qPCR Primers	
Name	Primer Sequence 5' - 3'
HBB 7F1	CAACAAGGTGCCAAGTCTTTT
HBB 7R1	ACATCACCTGGATGGGACAT
HBB 13F1	GAATGGCCCTAGTCTGGGTA
HBB 13R1	TGCTGCTTTTGAAACAAATGA
HBB 10F1	CCTATGGCAAAAATGGTGCT
HBB 10R1	CATGCAGTAAACAACCGAACA
C5 1F2	TTTGCCATCTGCCCTGTAAG
C5 1R2	AGTCATGCTGAGGCTTAGGG
C5 6F1	TCAGCTCTGCCTTTCTCCTC
C5 6R1	GCAGACCTTAACTGGCATCC
C5 8F1	CAGTTGCATGCTACCTTAAAGA
C5 8R1	AAGCTGAATCTGCTGCCAAC
DistalHBBF	GCCGTAAAACATGGAAGGAA
DistalHBBR	CCCATTTGCTTATCCTGCAT
3'HBBF	TTCCAGAATCTAGCATCTACCTACC
3'HBBR	TGCTTCTGGCTCTGCAGTTA
HBBF	GCAAGAAAGCGAGCTTAGTGA
HBBR	CAAAGAATTCACCCCACCAG
5'HBBF	CCTCACCACCAACTTCATCC
5'HBBR	GCAACCTCAAACAGACACCA
Proximal PromF	TAGATGGCTCTGCCCTGACT
Proximal PromR	CACTTAGACCTCACCTGTGG
Distal PromF	TGGGGTAATCAGTGGTGTCA
Distal PromR	TTTTGTTCCCCCAGACACTC
Positive Control1F	ACCCTTCAGCAGTTCCACAC
Positive Control1R	ACCCTTCAGCAGTTCCACAC
Positive Control2F	TGGTATTTTATTCTGAAACACAGAGG
Positive Control2R	GCTTCGGTGTTCAGTGGATT
Negative ControlF	CCCAAATGAGATTATGCCACTG
Negative ControlR	CTATGTTTGTGTTGCAGAGCCC