

Table S1. List of oligonucleotides (primers) used in the present study.

Primer sequences for RT-PCR	
AAVS1_iSAM_left_F	GCCTCTGGCCCACTGTTTCC
AAVS1_iSAM_left_R	CCACGTCACCGCATGTTAGAAG
AAVS1_iSAM_right_F	CTCGAGTGAAGACGAAAGGGC
AAVS1_iSAM_right_R	CCAGCCCACCCAATGCTC
GAPDH_F	GCACCGTCAAGGCTGAGAAC
GAPDH_R	AGGGATCTCGCTCCTGGAA
RPL19_F	GCGGAAGGGTACAGCCAAT
RPL19_R	AGCAGCCGGCGCAAAATCC
OCT4_F	GGGTTTTTGGGATTAAGTTCTTCA
OCT4_R	GCCCCACCCTTTGTGTT
CRIPTO_F	CGGAACTGTGAGCACGATGT
CRIPTO_R	GGGCAGCCAGGTGTCATG
DNMT3B_F	GCTCACAGGGCCCGATACTT
DNMT3B_R	GCAGTCCTGCAGCTCGAGTTTA
Cas9_F	AGCACGTGGCACAGATCCTGG
Cas9_R	GGAAATCCTTCCGAAATCGG
VP64_F	AAAAGAGGAAGGTGGCGGCC
VP64_R	CGTCACTGCCGAGCATGTCG
MCP_F	AAGGTGACATGCAGCGTCAGG
MCP_R	CCATGTTCAAGTAGGACCTCC
ASCL1_F	GAAGTATGCGCTGCAAACG
ASCL1_R	TGACCAACTTGACGCGGTT
NEUROD1_F	GGATGACGATCAAAGGCCAA
NEUROD1_R	GCGTCTTAGAATAGCAAGGCA
CXCR4_F	ACTACACCGAGGAAATGGGCT
CXCR4_R	CCCACAATGCCAGTTAAGAAGA
gRNA sequences for CRISPR/Cas9 gene editing and activation	
AAVS1 T2	GGGGCCACTAGGGACAGGAT
ASCL1	CGGGAGAAAGGAACGGGAGG
NEUROD1	AGGGGAGCGGTTGTCGGAGG
CXCR4	CCGACCACCCGCAACAGCA
Primers for Southern blot probe	
AAVS1_probe_F	AGGTTCCGTCTTCTCCACT
AAVS1_probe_R	GTCCAGGCAAAGAAAGCAAG
Primer sequences for off-target gene amplification and sequencing	
RPL8_OT_F	GCAGGCAGTTCTAGAAGCCA
RPL8_OT_R	CCTTAGTTATCTGGATTTCCAGAAC
BTNL8_OT_F	TAGGAGTCTTGGTGGTGTTTCA
BTNL8_OT_R	ATATCGTGGCACCTGGCTAC
FAIM2_OT_F	AGGCTCGTCCCATCCTTTTG
FAIM2_OT_R	CACATCCCCATTTGCTCCCT
MYBL2_OT_F	CTCCTGGCCCCCTTTAGACT
MYBL2_OT_R	GCAGTCGGAGGAAGTGACAA
RHOT2_OT_F	TGTTACTGGGCGAGGGTAGG
RHOT2_OT_R	CTACGGCCGCTACCTGAGTA
RNF4_OT_F	CAGACCGTGACTCCCGAAAA
RNF4_OT_R	GTCAGCGGGGAACAAAAACC