

SUPPLEMENTAL TABLES

Supplemental Table 1

qPCR Primers for RNA-seq Validation

Category	Gene	Source	Forward primer seq	Reverse primer seq	Reference
Up	<i>Hbb-bh1</i>	Literature			McGrath <i>et al.</i> (PubMed ID:21378272)
Up	<i>Zfp1</i>	Commercial			OriGene;MP219016
Up	<i>Anapc5</i>	Commercial			OriGene;MP200648
Up	<i>Pcbp2</i>	Commercial			OriGene;MP221925
Up	<i>H19</i>	Literature	AAGAGCTCGGACTGGAGACT	GACCACACCTGTCATCCTCG	Giovarelli <i>et al.</i> (PubMed ID:25385579)
Up	<i>Ahcyl1</i>	Commercial			OriGene;MP214966
Up	<i>Ccnd3</i>	Commercial			OriGene;MP221497
Up	<i>Gnb2</i>	Commercial			OriGene;MP205834
Up	<i>Hspa8</i>	Commercial			OriGene;MP205962
Up	<i>Ddx3x</i>	Literature	TGGAAATAGTCGCTGGTGTG	GGAGGACAGTTGTTGCCTGT	Lennox <i>et al.</i> (PubMed ID:32135084)
Up	<i>Donson</i>	Commercial			OriGene;MP203922
Up	<i>Slc38a5</i>	Commercial			OriGene;MP215857
Up	<i>Alad</i>	Commercial			OriGene;MP200605
Down	<i>Fam117a</i>	Commercial			OriGene;MP214105
Down	<i>Ell2</i>	Literature	CGCTGGAGACTTACCAGAGC	CATTGAAGGGATCATTTTTGG	Pascal <i>et al.</i> (PubMed ID:28870994)
Down	<i>Dnmt1</i>	Literature	CCCATGCATAGGTTCACTTCCTTC	TGGCTTCGTCGTAACCTCTCTACCT	Noh <i>et al.</i> (PubMed ID:15671176)
Down	<i>Ube2o</i>	Commercial			OriGene;MP217952

Supplemental Table 2

qPCR Primers for β -like globin profiling

Description	Gene	Forward primer seq	Reverse primer seq
Mus musculus β globin	<i>$\epsilon\gamma$</i>	TGGCCTGTGGAGTAAGGTCAA	GAAGCAGAGGACAAGTTCCCA
	<i>$\beta h1$</i>	TGGACAACCTCAAGGAGACC	ACCTCTGGGGTGAATTCCTT
	<i>βmajor/minor</i>	TTTAACGATGGCCTGAATCACTT	CAGCACAATCACGATCATATTGC
Homo sapiens β globin	<i>ϵ (HBE)</i>	GCAAGAAGGTGCTGACTTCC	ACCATCACGTTACCCAGGAG
	<i>γ (HBG)</i>	TGGATGATCTCAAGGGCAC	TCAGTGGTATCTGGAGGACA
	<i>β (HBB)</i>	CTGAGGAGAAGTCTGCCGTTA	AGCATCAGGAGTGGACAGAT

Supplemental Table 3

Guide RNA (gRNA) Sequences for CRISPR/Cas9 Knockout (KO)

Name	sgRNA sequence
gAAVS1	GGACGCACCATTCTCACAAA
gDIS3L2 No.1	TTCCCCAGAGCATAGCAGCG
gDIS3L2 No.2	AATACTAACAGAGTATGGCG
gZCCHC6 No.1	TTGACTGTTGATCAGAAACG
gZCCHC6 No.2	TGAGTCTGTACTTTCAACGA