Table SI. Sequence of promoter fragments used for cloning.

Gene	Sequence
GATA2L	5'CGCCTGCACTTAGCTAAACAAGCCTGGCAGTGAGGGCGTCCTGAGT GTGAGCCCGAGTGCCGAGTTGCATCTGATTGTATGGCCATGTGTGTCG GTGTGACCCAGGCCGTCTGTCTGAGGATGTCCTCGCGGCCACAGCTGT GTGCACATGTGCAGGGATGTGTGCGTGTCCGTGTGAGCACTCCTGGA AGTGGGTTGAAGACAGAGGAGCGGGCGTCTGTGTACCATTATCAGTG AGTGCGTGTGCTCACAGCTCCTGAGGGTCCCCGGGGAGAGTCTCAGT AAAGACGTGTCCCAAGCTTTCTGAGCAAGCATCCCTGAGGTCAGGGG CGCGCGTGTGCGCTCCGGAGAGGGTGGGAGCGGCCTGGAGTGTGGAT GCACAGGGTGTGCGCGCCCTGAGTGCCTAGCGGCCCTTGGCCGGCCA GGCGGCTGGACCTGGTAGGCCGGGTGCAGAGCCCCGGGTACCCTCCT GCCCCCTGCGGCGCTCCCGCCCCCGTCGCCACCCCCTGCCCCCCCGCA AAGTGATGTCGAAATAAAAAGCCGCGTTGCGGCCGGTGGGGGAGAG AGAGG3'

Table SII. Primers for reverse transcription-quantitative PCR.

Gene	Sense, 5'→3'	Antisense, 5'→3'
HBG1	ACTTCCTTGGGAGATGCCAC	AAAGCCTATCCTTGAAAGCTCTGA
HBG2	ACTTCCTTGGGAGATGCCAT	GCCTATCCTTGAAAGCTCTGC
GAPDH	AGAAGGCTGGGGCTCATTTG	AGGGGCCATCCACAGTCTTC
GATA2	GCAACCCCTACTATGCCAACC	CAGTGGCGTCTTGGAGAAG
GATA1	CTGTCCCCAATAGTGCTTATGG	GAATAGGCTGCTGAATTGAGGG
Meis1	GGGCATGGATGGAGTAGGC	GGGTACTGATGCGAGTGCAG
CD41	GATGAGACCCGAAATGTAGGC	GTCTTTTCTAGGACGTTCCAGTG
CD61	GTGACCTGAAGGAGAATCTGC	CCGGAGTGCAATCCTCTGG
ERG	CGTGCCAGCAGATCCTACG	GGTGAGCCTCTGGAAGTCG
LDB1	TATCCGCCTACATACCTGGAG	GAAGCCGTTTGTTAAGCTCAAAT
KLF1	GGTTGCGGCAAGAGCTACA	GTCAGAGCGCGAAAAAGCAC
FLI1	CCAACGAGAGGAGAGTCATCG	TTCCGTGTTGTAGAGGGTGGT
HBA1	CCGGTCAACTTCAAGCTCCT	AAGAAGCATGGCCACCGAG
HBA2	TCAAGCTCCTAAGCCACTGC	CAGGAGGAACGGCTACCGAG
CD235a	ACAACTTGCCCATCATTTCTCTG	TCAGTCGGCGAATACCGTAAG

Table SIII. shRNA and siRNA sequences.

A, shRNA	
Scrambled	5’TTCTCCGAACGTGTCACGTTTCAAGAGAACGTGACACGTTCGGAGAATTTTTT3’
shGATA2-1	5’GGAGAGCATGAAGATGGAATTCAAGAGATTCCATCTTCATGCTCTCCTTTTTT3’
shGATA2-2	5’GGTGGACGTCTTCTTCAATTTCAAGAGAATTGAAGAAGACGTCCACCTTTTTT3’
shGATA2-3	5’GGCTCGTTCCTGTTCAGAATTCAAGAGATTCTGAACAGGAACGAGCCTTTTTT3’
shGATA1-1	5’GCCTCTATCACAAGATGAATGTTCAAGAGACATTCATCTTGTGATAGAGGCTTTTTT3’
shGATA1-2	5’GCGCCTGATTGTCAGTAAACGTTCAAGAGACGTTTACTGACAATCAGGCGCTTTTTT3’
shLDB1-1	5’CGACGAGGACAGCTTTAACAATTCAAGAGATTGTTAAAGCTGTCCTCGTCGTTTTTT3’
shLDB1-2	5’CGGATAAAGACGTGGCACTTTCAAGAGAAGTGCCACGTCTTTATCCGCTTTTTT3’
shLDB1-3	5’CGGAGCTGTACTATGTTCTTATTCAAGAGATAAGAACATAGTACAGCTCCGTTTTTT3’
shFLI1(4 in 1)	5’GCGTCATGTTCTGGTTTGAGATTTCAAGAGAATCTCAAACCAGAACATGACGTTTTTT3’ 5’GCCCTTCTGACATCTCCTACATTTCAAGAGAATGTAGGAGATGTCAGAAGGGTTTTTT3’ 5’GCCCATGAACTACAACAGCTATTTCAAGAGAATAGCTGTTGTAGTTCATGGGTTTTTT3’ 5’GGAGTATGACCACATGAATGGTTCAAGAGACCATTCATGTGGTCATACTCCTTTTTT3’
Scrambled(4 in1)(As a shFLI1 control)	5'GCACCCAGTCCGCCCTGAGCAAATTCAAGAGATTTGCTCAGGGCGGACTGGGTGCTTTTT-3' 5'GGCGACACCCTGGTGAACCGCATTTCAAGAGAATGCGGTTCACCAGGGTGTCGCCTTTTT-3' 5'GGCGTGCAGTGCTTCAGCCGCTATTCAAGAGATAGCGGCTGAAGCACTGCACGCCTTTTT-3 5'GCCCACCCTCGTGACCACCCTGATTCAAGAGATCAGGGTGGTCACGAGGGTGGGCTTTTT-3
B, siRNA	
Scrambled	5'UUCUCCGAACGUGUCACGUTT3
siLDB11	5’CACACCAUAUGGCAACCAATT3’
siLDB12	5’GGAGCUGUACUAUGUUCUUTT3’
siLDB13	5’GACGACAUGAUGCGGAUAATT3’
siLDB14	5’GACGAGGACAGCUUUAACATT3’

sh, short hairpin; si, short interfering.