

Table S1. Oligonucleotide primers used for PCR

ID	Oligo Name	Oligo sequence	Product size
<i>RT-PCR</i>			
FLI (exon 2-3)	JH2530	TGACCACCAACGAGAGGAGAGTC	156bp
	JH2531	TACACAGTTCCTTGCCATCCATG	
FLI1 (exon 4-6)	JH2532	CTGTTGTCACACCTCAGTTAC	144bp
	JH2533	CATGTTATTGCCCAAGCTCCTC	
FEER1	JH3273	AGTCAGGACTCCCCGAGGCAGT	137bp
	JH2532	CTGTTGTCACACCTCAGTTAC	
FEER1	JH3859	CCGACAGAGCCTCTTTCCCTGA	253bp
	JH2530	TGACCACCAACGAGAGGAGAGTC	
DNMT1	JH3540	GTCACCAACCCCGAGCCCATGG	193bp
	JH3541	CCAARGCCAATGGCTTTGGCCAG	
β -Actin	J880	CAGGTCATCACCATTGGCAATGAGC	135bp
	J881	CGGATGTCCACGTCACACTTCATGA	
GABPB1	JH4273	CCAGCTAAGAGACAATGTATCGA	159bp
	JH4274	GTAGGCCTCTGCTTCCTGTTCT	
SERTAD2	JH4277	CGTTAGTTCAGGTGGAGCT	128bp
	JH4278	AGACACCTTGGATGGACCGTCA	
DPM1	JH4279	GGGATGTTGCTGAACAGTTGGA	157bp
	JH4280	TGGTGTGAGAGATCAGCATCCAT	
ELMO1	JH4283	TTGCACTCCAGCATGCCGATAG	146bp
	JH4284	CATACTCGAGGACTGGATTTCGT	
DLG2	JH4500	AGTCGGGTTGCTTGGAATGCA	139bp
	JH4501	CACGCCCTCTTGTACTCTCTCT	
LINC00534	JH4496	GAGCCATTGCCTCTTGCTGTGA	151bp
	JH4497	CTGGAAAGGGAGTGGAAGTGTGA	
DNMT3B	JH069	GCCCCAA TCCTGGAGGCTAT	116bp
	JH070	CGCCTGTCAAGTCCTGTGTGTA	
circPVT1	NF063	CFACTCTTCCTGGTGAAGCATCTGAT	134bp
	NF064	TACTTGAACGAAGCTCCATGCAGC	
Spike-in DNA	JH1695	CGAGTACAAGCCCACGGTGC	124bp
	JH1696	GATGTGGCGGTCCGGATCGACG	
<i>DNA methylation</i>			
CpG1-2	JH5040	AGGTGATGGGGGGAGGTTTAGAT	242bp
	JH5041	ACCCCTCTTCCTCCCCTACTAA	
CpG3-5	JH5044	GTGTATAGGGGAGTGAGGGT	285bp
	JH5045	ACCCCCAATATTCCACACATTA	
<i>FLI1 promoter binding</i>			
1	JH4053	CTCGGTTTTTCGTCCGAGTCTTC	119bp
	JH4054	TTTTTCCAGCCGGAGACAAACT	
2	JH2756	GGGCTGCGAGGTCAGGCT	106bp
	JH4528	GTTGCCCCGCCGCTTACCTTA	

3	JH4531	CTCTCCGCAGAGGCGGAACA	104bp
	JH4532	CTCGTGCAACGAGGCCACTTA	
4	JH2528	AGGGAGCTATAAGAGCCTAT	163bp
	JH2529	GAGACACTTGCATGAACACATC	
5	JH2657	GAACCTGACACTTCAGGCCA	120bp
	JH2758	AGGTAAGTTAGGTGAATGAC	
6	JH2744	CTTTTGGGAATGGGCATAC	269bp
	JH2745	TCCATTCCCTAACCTGCGT	
7	JH3222	GCAAGTGGTTCTCATGGAAGC	126bp
	JH3223	ATGAGCCACCCAGTCTATGGTA	

Cas9-IP gRNA

1	GATGAGTGGGTGAGCCGCTC
2	GTGGACCCCGTCATTGTTCCCG
control	GTTCCCTGCAAGAGTGCCCA

**RAT
primers**

FEER1 AGTCCCTTTCTCCGAGACAGCC

RAT control

JH5849 ATGGACTGATGATCTTATGC
JH5850 TACATAGTAGATCAGATACT
