

Additional file 2: Table S1

Table S1. List of Oligonucleotides: guide RNAs and primers.

Name	Sequence (5'-3')	Note
Tet1-Flag sg	TGCGGGACCCTACAATCGTT	guide RNA for <i>Tet1</i> -FLAG tagging
Tet1-Flag gt-F	TGATGTATCCCCGAAGCCA	<i>Tet1</i> -FLAG ESCs genotyping primers
Tet1-Flag gt-R	CGGAGTTGAAATGGGCGAAAC	
Tet1KO sg-L	AGATTTCTGTTGGGGTTACGG	guide RNAs for <i>Tet1</i> (exon 4) deletion
Tet1KO sg-R	TGAGGTCGGCTACGCCTATC	
Tet1KO gt-F	CCCTTCTCCCTCATTCAGCTC	<i>Tet1</i> KO genotyping primers
Tet1KO gt-R1	TGTGTGGGTGTTTTCCCGAC	
Tet1KO gt-R2	ATCCGTGGTGACTCTGGGTA	
3aKO sg-L	TGTGGTAATGAGTTCTCGAT	guide RNAs for <i>Dnmt3a</i> (exon 18-19) deletion
3aKO sg-R	TGTCTGCATTGCGGAGCTGG	
3aKO gt-F	TCTGTGGCATCTCAGGGTGA	<i>Dnmt3a</i> KO genotyping primers
3aKO gt-R1	CCTCCAATCACCAGGTCGAA	
3aKO gt-R2	AGAGAGTGAGCACAGGCCAT	
Gapdh RT-F	AGGTCGGTGTGAACGGATTTG	RT-qPCR primers for <i>Gapdh</i>
Gapdh RT-R	TGTAGACCATGTAGTTGAGGTCA	
Smad6 RT-F	TTACACTGAAACCGAGGCCA	RT-qPCR primers for <i>Smad6</i>
Smad6 RT-R	TGGTCGTACACCGCATAGAG	
Bmpr2 RT-F	AAACCCGCAATCTCCCACC	RT-qPCR primers for <i>Bmpr2</i>
Bmpr2 RT-R	AGCGAATTGTGCCAACCTCA	
Akt3 RT-F	CGCACACGTTTCTATGGTGC	RT-qPCR primers for <i>Akt3</i>
Akt3 RT-R	GCTGCATCTGTGATCCCTTCT	
Foxo3 RT-F	GGTACCAGGCTGAAGGATCAC	RT-qPCR primers for <i>Foxo3</i>
Foxo3 RT-R	AGTCTCTGCTGGGTTAGGGAA	
Kat6a RT-F	TGTCTTTAGGGGCTTCAGCG	RT-qPCR primers for <i>Kat6a</i>
Kat6a RT-R	TTGCGGACTCTTCGTCTTCG	
K27me3-neg-F	GTTTCCCGGTGGATGGATCG	qPCR primers for H3K27me3/PRC2 ChIP negative control (<i>Jmjd4</i> promoter)
K27me3-neg-R	GTCAGCATAGGAGAAGGCGT	
Smad6 ChIP-F	CATGGATCACGATGGGCCG	qPCR primers for H3K27me3/PRC2 ChIP peak at <i>Smad6</i> promoter
Smad6 ChIP-R	CAGCCGCGCAACTTTTGAAG	
Foxo3 ChIP-F	CAGCAGCATGGCCGAATC	qPCR primers for H3K27me3/PRC2 ChIP peak at <i>Foxo3</i> promoter

Foxo3 ChIP-R	GACGACGATGAAGACGACGA	
Chd7 ChIP-F	GGACAGTTCTTTCAAACCGGG	qPCR primers for H3K27me3 ChIP peak at <i>Chd7</i> promoter
Chd7 ChIP-R	GGGAAAGCCCTGTCTCTTACA	
Jak2 ChIP-F	TCTGGCCATGCTAAACGTCC	qPCR primers for H3K27me3 ChIP peak at <i>Jak2</i> promoter
Jak2 ChIP-R	GGGAGAGTTCTGAGGAATCGG	
Setd6 ChIP-F	CCCACACCTGTTCCATCAGC	qPCR primers for H3K4me3 ChIP peak at <i>Setd6</i> promoter
Setd6 ChIP-R	ACACCAGGTGAACGTCCAAG	
Smad1 ChIP-F	CTGGACACGCCCGACAAA	qPCR primers for H3K4me3 ChIP peak at <i>Smad1</i> promoter
Smad1 ChIP-R	GACCCGCGCTGAAGGAAATC	