

SUPPLEMENTARY TABLES

Supplementary Table 1. The sequences of primers used for RT-qPCR.

Gene	Forward primer	Reverse primer
Human		
Mark1	GAGCGGGACACGGAAAATCAT	TGCTACTCGACTTGGTAGGCT
Mark2	CACATTGGAACTACCGGCTC	GGAGGAGTTCAGTTGAGTCTTGT
Mark3	GGAGGAGTTCAGTTGAGTCTTGT	GCCTGTAAGGATATGTCTTGCC
Mark4	AGGTTGCCATCAAGATTATCGAC	GATGCGGACTTCTCGGAACAG
Sp1	AGTTCCAGACCGTTGATGGG	GTTTGCACCTGGTATGATCTGT
Setd8	TCCAGCAATCCTCCTCCTCCTC	CCAGCCTAAGCAACAGATCCAGA
Rat		
Mark4 Setd8	TGATGACCCGAAGAAACACCT AAAGACGCCAGGAAAGTCC	GCTGTGACTGGAGGGTGAG TTCCACCACAAAGTCACCCC

Supplementary Table 2. The antibodies used in this study.

Anti-Mark4	CST	#4834	WB 1:500; IHC/IF: 1:50
Anti-Caspase-3	CST	#9662	WB 1:1000; IHC: 1:200
Anti-phosphor-Akt (Ser473)	CST	#4060	WB 1:1000
Anti-Akt	CST	#9272	WB 1:1000
Anti-Sp1	Proteintech	#2196-1-AP	WB 1:1000; IHC/IF 1:200; IP: 5 µl for 1mg protein; Chip :4 ug
Anti-BAX	Abcam	#ab32503	WB 1:2000
Anti-Bcl2	Abcam	#ab196495	WB 1:1000
Anti-Runx2	Abcam	#ab76956	WB 1:500; IHC/IF 1:200;
Anti-Setd8	Santa	#sc377034	WB 1:500; IHC/IF 1:100; IP: 5 µl for 1mg protein
GAPDH	Bioworld Technology Co	#AP0063	WB 1:1000
Anti-rabbit	Report	#S1002	WB: 1:5000
Anti-mouse	Seracare	#S1001	WB: 1:1000
Anti-rabbit-DyLight488	Abbkine	#A23220	IF: 1:200
Anti-mouse-DyLight 594	Abbkine	#A23410	IF: 1:200
Rabbit control IgG	ABclonal	#AC005	IP: 3 µl, Chip:1 µl

Supplementary Table 3. The sequences of primers used for ChIP.

Gene	Forward primer	Reverse primer
Mark4-1	CTGGGATTTGAACTGAGGAC	CAAGCTGGTTATAGGACTGG
Mark4-2	CTTTCCTCCCACAAGGCACT	TAGCTGGAAGCCCAAACAGG
Mark4-3	TTCTTCCCACCTCGCGTCTG	CCGGCTCTTAAAGGCACAGG