

SIRT1 positively regulates migration of NSCLC cells

Table S1A. 153 epigenetic genes

Gene	Gene	Gene	Gene	Gene	Gene
ACTL6A	C17ORF49	JMJD1C	MECOM	PRMT6	SUV39H1
ALKBH4	CARM1	JMJD4	MEN1	PRMT7	SUV39H2
ALKBH5	CBX2	JMJD5	MLL	PRMT8	SUV420H1
ALKBH6	CBX7	JMJD6	MLL2	RAD54L	SUV420H2
ALKBH7	CHD4	JMJD7	MLL3	RAD54L2	UTY
ALKBH8	CIITA	JMJD8	MLL5	REST	WHSC1
ARID1A	CREBBP	KAT2A	MPG	RNF2	WHSC1L1
ARID2	CSRP2BP	KAT2B	MTA3	RNF20	ZMYND8
ASF1A	DOT1L	KAT5	NSD1	RPS6KA3	
ASF1B	DZIP3	KAT6A	PHF6	RPS6KA5	
ASH1L	EGLN2	KAT6B	PRDM1	SETD1A	
ASH2L	EHMT1	KAT7	PRDM10	SETD1B	
ASXL1	EHMT2	KAT8	PRDM11	SETD2	
ATAD2	EPC1	KDM1A	PRDM12	SETD3	
ATF2	ESCO1	KDM1B	PRDM13	SETD4	
ATF7IP	ESCO2	KDM2A	PRDM14	SETD5	
ATRX	EZH1	KDM2B	PRDM15	SETD6	
BAZ1A	EZH2	KDM3A	PRDM16	SETD7	
BAZ1B	FBXO11	KDM3B	PRDM2	SETD8	
BAZ2A	HAT1	KDM4A	PRDM4	SETDB1	
BAZ2B	HDAC1	KDM4B	PRDM5	SETDB2	
BMI1	HDAC2	KDM4C	PRDM6	SETMAR	
BRCA2	HDAC3	KDM4D	PRDM7	SIRT1	
BRD1	HDAC5	KDM5A	PRDM8	SIRT2	
BRD2	HDAC6	KDM5B	PRDM9	SMYD1	
BRD8	HDAC7	KDM5C	PRMT1	SMYD2	
BRDT	HDAC8	KDM5D	PRMT2	SMYD3	
BRWD3	JARID2	KDM6A	PRMT3	SMYD4	
C14ORF169	JHDM1D	KDM6B	PRMT5	SMYD5	

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Table S1B. 25 genes in positive regulation and 26 genes in negative regulation of A540 cell migration

Gene	relative migration	<i>P</i> value	Gene	relative migration	<i>P</i> value
ESCO2	0.010	0.00002	KDM4B	1.278	0.039
ASF1B	0.264	0.002	SETD1B	1.278	0.034
SIRT2	0.323	0.001	KDM4A	1.278	0.034
KAT2A	0.324	0.005	PRMT5	1.279	0.016
CBX2	0.336	0.001	WHSC1L1	1.290	0.047
ATRX	0.338	0.006	MEN1	1.298	0.038
HDAC7	0.340	0.006	PRDM4	1.298	0.029
ATAD2	0.364	0.009	BRDT	1.311	0.022
BRDT	0.398	0.004	SUV420H1	1.317	0.046
BRWD3	0.398	0.004	ALKBH7	1.320	0.020
ALKBH4	0.408	0.007	ALKBH6	1.320	0.032
ALKBH5	0.443	0.010	REST	1.329	0.015
HDAC5	0.453	0.033	KDM2B	1.335	0.010
BRD2	0.467	0.033	BMI1	1.346	0.008
ASH1L	0.483	0.049	MPG	1.346	0.013
ZMYND8	0.508	0.018	MECOM	1.354	0.012
PRDM6	0.510	0.007	KDM5D	1.354	0.038
BRCA2	0.634	0.036	SETD3	1.372	0.021
ARID1A	0.642	0.041	C17ORF49	1.372	0.015
KDM5B	0.674	0.014	HDAC6	1.394	0.004
PRMT1	0.684	0.008	EHMT1	1.407	0.004
PRDM14	0.694	0.016	SETD6	1.451	0.001
SIRT1	0.721	0.032	UTY	1.460	0.002
SUV39H2	0.737	0.035	KDM6A	1.513	0.0004
PRDM1	0.765	0.037	ATRX	1.534	0.019
			SETD2	1.548	0.001

Table S2. Primers for qPCR

gene	forward	reverse
Actb	caccatgtaccctggcatt	gtacttgcgctcaggaggag
KDM5B	atcgagtgggctcaggact	tgccaggaggttgagataacc
SIRT1	agagtggcaaaggagcagattagt	cctcagcgccatggaaaat