

**Table S1** The 49-gene chromatin remodeling-related gene set

Gene
SMARCA4
SMARCA2
ACTL6A
SMARCD1
SMARCB1
SMARCE1
SMARCC1
ACTB
DPF1
ARID1A
ARID2
PBRM1
SMARCA1
RBBP4
RBBP7
BPTF
BAZ1A
CHRAC1
CHD3
GATAD2A
HDAC1
MTA1
MBD2
INO80

**Table S1** (*continued*)

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Gene
ACTL6A.1
ACTR5
ACTR8
UCHL5
TFPT
RUVBL1
YY1
INO80B
MCRS1
NFRKB
ACTL7B
SMARCD2
SMARCC2
DPF2
CHD4
GATAD2B
HDAC2
MTA2
MBD3
RUVBL2
INO80C
SMARCD3
DPF3
MTA3
INO80D