

Table S1 Summary of histone acetylation Modification regulators

Gene	Complex	Type
HAT1	Histone Acetyltransferase 1	writer
KAT2A	Lysine Acetyltransferase 2A	writer
KAT2B	Lysine Acetyltransferase 2B	writer
KAT8	Lysine Acetyltransferase 8	writer
KAT6A	Lysine Acetyltransferase 6A	writer
KAT6B	Lysine Acetyltransferase 6B	writer
KAT7	Lysine Acetyltransferase 7	writer
EP300	E1A Binding Protein P300	writer
CREBBP	CREB Binding Protein	writer
HDAC1	Histone Deacetylase 1	eraser
HDAC2	Histone Deacetylase 2	eraser
HDAC3	Histone Deacetylase 3	eraser
HDAC8	Histone Deacetylase 8	eraser
SIRT2	Sirtuin 2	eraser
HDAC4	Histone Deacetylase 4	eraser
HDAC5	Histone Deacetylase 5	eraser
HDAC6	Histone Deacetylase 6	eraser
HDAC7	Histone Deacetylase 7	eraser
HDAC9	Histone Deacetylase 9	eraser
HDAC10	Histone Deacetylase 10	eraser
HDAC11	Histone Deacetylase 11	eraser
BRD2	Bromodomain Containing 2	reader
BRD3	Bromodomain Containing 3	reader
BRD4	Bromodomain Containing 4	reader
BRDT	Bromodomain Testis Associated	reader
BPTF	Bromodomain PHD Finger Transcription Factor	reader
ATAD2B	ATPase Family AAA Domain Containing 2B	reader
BAZ2B	Bromodomain Adjacent To Zinc Finger Domain 2B	reader
TAF1	TATA-Box Binding Protein Associated Factor 1	reader
YEATS4	YEATS Domain Containing 4	reader
DPF3	Double PHD Fingers 3	reader
SMARCA2	SWI/SNF Related, Matrix Associated, Actin Dependent Regulator Of Chromatin, Subfamily A, Member 2	reader
SMARCA4	SWI/SNF Related, Matrix Associated, Actin Dependent Regulator Of Chromatin, Subfamily A, Member 4	reader
PBRM1	Polybromo 1	reader
DPF1	Double PHD Fingers 1	reader
DPF2	Double PHD Fingers 2	reader