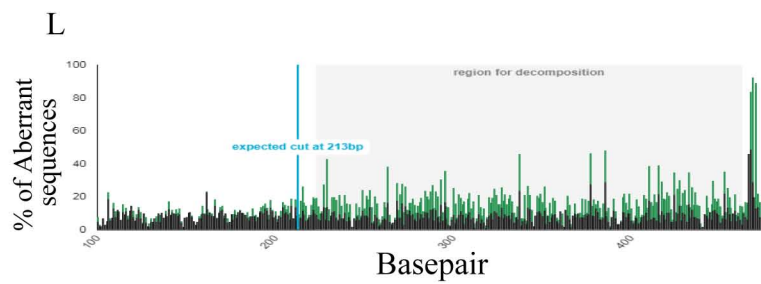
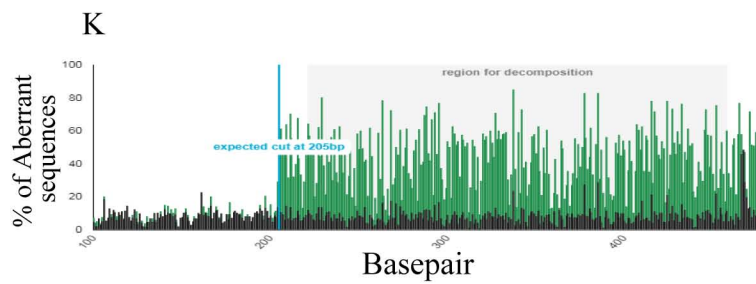
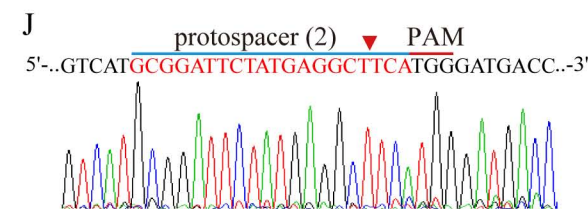
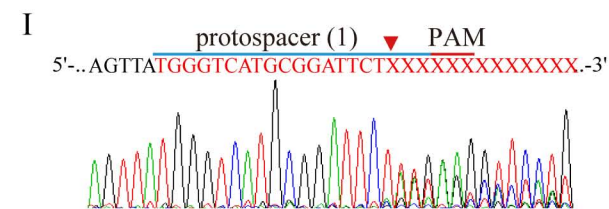
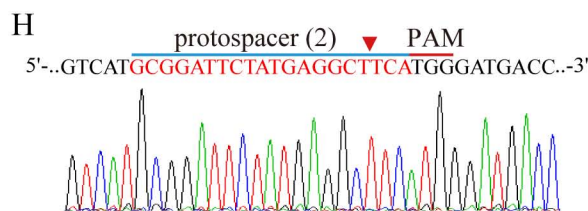
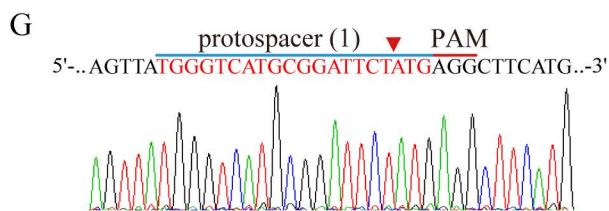
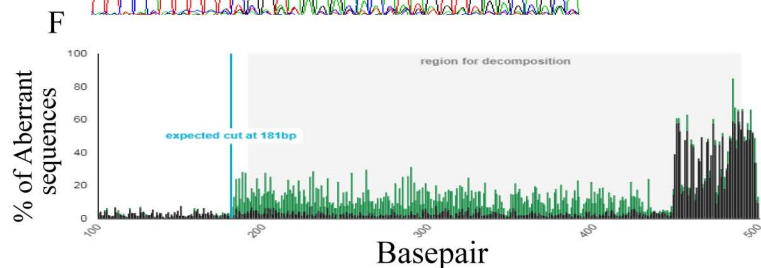
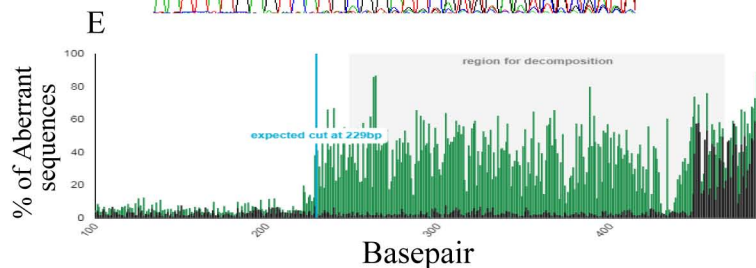
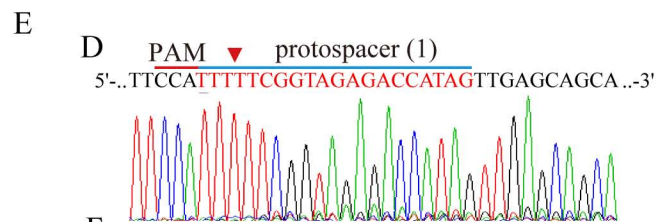
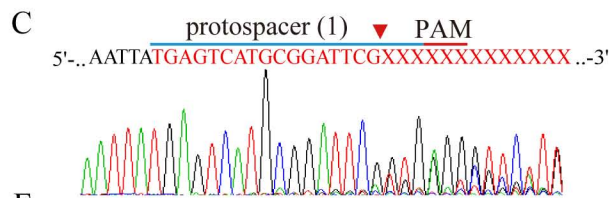
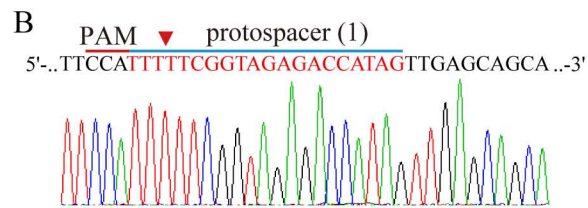
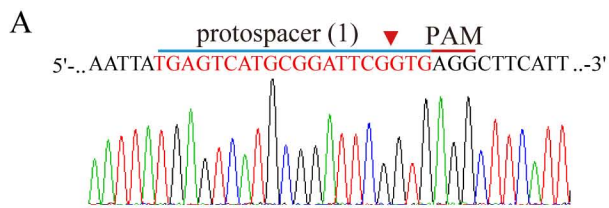


Supplementary figure 1



Supplementary table 1

Primary Antibody

Antibody	Catalog Number	Company Name (Origin)
GAPDH	sc-32233	Santa Cruz Biotechnology (Santa Cruz, CA, USA)
H3	GTX122148	GeneTex Inc. (Irvine, CA, USA)
H3K56AC	GTX60902	GeneTex Inc. (Irvine, CA, USA)
H3K18AC	GTX128943	GeneTex Inc. (Irvine, CA, USA)
H3K9AC	GTX630554	GeneTex Inc. (Irvine, CA, USA)
H4	GTX129560	GeneTex Inc. (Irvine, CA, USA)
H4K8AC	GTX633420	GeneTex Inc. (Irvine, CA, USA)
H4K16AC	GTX632067	GeneTex Inc. (Irvine, CA, USA)
p21	GTX629543	GeneTex Inc. (Irvine, CA, USA)
p27	GTX100446	GeneTex Inc. (Irvine, CA, USA)
C-PARP	#9541	Cell Signaling Technology (Danvers, MA, USA)
C-CASPASE-3	#9664	Cell Signaling Technology (Danvers, MA, USA)
p-AKT	#4060	Cell Signaling Technology (Danvers, MA, USA)
p-ERK	sc-7383	Santa Cruz Biotechnology (Santa Cruz, CA, USA)
HDAC1	GTX100513	GeneTex Inc. (Irvine, CA, USA)
HDAC2	GTX10964	GeneTex Inc. (Irvine, CA, USA)

Secondary Antibody

goat Anti-Rabbit IgG-HRP	sc-2004	Santa Cruz Biotechnology (Santa Cruz, CA, USA)
goat Anti-Mouse IgG-HRP	sc-2005	Santa Cruz Biotechnology (Santa Cruz, CA, USA)

Supplementary table 2

Primer sequence

Primer	Sequence	Assay
HDAC1 exon2-1 sense	CAC CGT <u>GAG TCA TGC GGA TTC GGT G</u>	Gene editing assay
HDAC1 exon2-1 antisense	AAA <u>CCA CCG AAT CCG CAT GAC TCA C</u>	Gene editing assay
HDAC1 exon2-2 sense	CAC CGC <u>TAT GGT CTC TAC CGA AAA A</u>	Gene editing assay
HDAC1 exon2-2 antisense	AAA <u>CTT TTT CGG TAG AGA CCA TAG C</u>	Gene editing assay
HDAC2 exon2-1 sense	CAC CGT <u>GGG TCA TGC GGA TTC TAT G</u>	Gene editing assay
HDAC2 exon2-1 antisense	AAA <u>CCA TAG AAT CCG CAT GAC CCA C</u>	Gene editing assay
HDAC2 exon2-2 sense	CAC CGG <u>CGG ATT CTA TGA GGC TTC A</u>	Gene editing assay
HDAC2 exon2-2 antisense	AAA <u>CTG AAG CCT CAT AGA ATC CGC C</u>	Gene editing assay
HDAC1 DNA sense	AGT GAG CTA GAC TGA ACC TTA	TIDE assay
HDAC1 DNA antisense	TGC TGT GAT TAC AGG CG	TIDE assay
HDAC2 DNA sense	CTC ATT CTT ATT CAT CTC CTA	TIDE assay
HDAC2 DNA antisense	AAT ATA ATG TGT AAT AAT GGA GTC	TIDE assay
GUS realtime sense	CCT GTT TAC TTG AGC AAG ACT GAT A	Q-PCR assay
GUS realtime antisense	CCT TTA GTG TTC CCT GCT AGA ATA	Q-PCR assay