

S1 Table. List of all primers used in this study

qPCR	
Eif2s3y_Fwd	GAA TGG TTG GGC AGG TCC TT
Eif2s3y_Rev	GCC TCT TCT TAT CTG GCC CC
Ddx3y_Fwd	GTT GAC TGG TGG GGC AAT TG
Ddx3y_Rev	CCA GGA TAA GTT CAT TCA CCA TC
Psm2_Fwd	CCC AGA CTA TGT CCT CGT CG
Psm2_Rev	CCG TGT GAA GTT AGC TGC TG
Ddx3x_Fwd	AGT CGG TAT ATA AGG TCG GTG
Ddx3x_Rev	TGC TGT ACT TCC TCC ACT CTG
Trp53_Fwd	CCA TCA TCA CAC TGG AAG ACT CC
Trp53_Rev	TCC AGA CTC CTC TGT AGC ATG G
IRES_Tg_Fwd	TTG AAT GTC GTG AAG GAA GCA G
eGFP_Tg_Rev	GCA GAT GAA CTT CAG GGT CAG
Cloning	
Ddx3y_cDNA_Fwd	GTC GAC ATG AGT CAA GTG GCA GCG GA
Ddx3y_cDNA_Rev	AGA TCT TCA ATT GCC CCA CCA GTC AAC
px330_CE05_gRNA_F1	CACC G AAG GTG CAC GTC AGA ACT TC
px330_CE05_gRNA_R1	AAAC GAA GTT CTG ACG TGC ACC TT C
px330_CE08_gRNA_F2	CACC G CCA TAT GGC AAA TAT CAT CT
px330_CE08_gRNA_R2	AAAC AGA TGA TAT TTG CCA TAT GG C
CRISPR/Cas9 targeting	
Cas9_Invitro_Fwd	TAA TAC GAC TCA CTA TAG GGA GAA TGG ACT ATA AGG ACC ACG AC
Cas9_Invitro_Rev	GCG AGC TCT AGG AAT TCT TAC
sgRNA_CE05_Invitro_Fwd	TTA ATACGA CTC ACT ATA G AAG GTG CAC GTC AGA ACT TC
sgRNA_CE08_Invitro_Fwd	TTA ATACGA CTC ACT ATA G CCA TAT GGC AAA TAT CAT CT
sgRNA_px330_Invitro_Rev	AAA AGC ACC GAC TCG GTG CC
Genotyping	
CRISPR_Hace-Grik2 SER_Fwd	CAC TGT AAT CAC TTA ATG TTT GGT AAA CC
CRISPR_Hace-Grik2 SER_Rev1	CTT CCC AGG AAA TTT TAA TGT AAC TGT TG
CRISPR_Hace-Grik2 SER_Rev2	GGT ACC GGG GGT AAA CAT TTG ATC AGC ATC
MycDdx3y_Fwd	ATC TAA AGG GGT CTG TGA TAA GG
MycDdx3y_Rev	GAG AAT GGG TAG TAG AAA TGC AG
MycSry_Fwd	TTT ATG GTG TGG TCC CGT GG
MycSry_Rev	GAT GTC AGC TGT TAG TAA GTA GG
Smcxy Forward	TGA AGC TTT TGG CTT TGA G
Smcxy Reverse	CCA CTG CCA AAT TCT TTG G
Zfy Forward	GAC CAG ATT GTT GTG GAA GTA CAA G
Zfy Reverse	CCA GTG TGT CTG AAG TGT CAG CTG
4C-seq	
4C_Pair 1_Fwd	TAG GCT ACA GGT ATG TTT TTA GC
4C_Pair 1_Rev	ATC CCA GGT GTT GCC AAC AG
4C_Pair 2_Fwd	TGA AGG AGT TCT CAG TCA TTA AG
4C_Pair 2_Rev	CAA GTG ACT AGA AGG CAG ACC

4C_Pair 3_Fwd	CAT AGC CCT AGT TGT CCT GG
4C_Pair 3_Rev	GGA GGA ACC TTG ACC TGA TG
4C_Pair 4_Fwd	AA TTA GGT CTC TCT CCA TGC TG
4C_Pair 4_Rev	TAT CTA GGG AAT GAG CCC AAA C
4C_Pair 5_Fwd	CAG ACA CTA GAG TTT TCT GTG C
4C_Pair 5_Rev	CGC ATT GTA AAA CAC AAT TTA CTG G

3C-PCR

Dusp26 locus	CCA GCA CCA CCC AAT TAT GTT AAA GGC TAC
Hace1-Grik2 SER locus	ACC CAA ATG AAG ACA GAA TGA GAA GTC ACC AGG AG

ChIP-PCR

pDdx3y_Fwd	TAC CTT GGG TTG TGG AAT TGT G
pDdx3y_Rev	ACA AAG TGA AAA GGG TTG AGG C
pDdx3x_Fwd	TTG AAG CTG AGT CTT GGG GG
pDdx3x_Rev	AAT GTG TGA CTG GAC ACA ACC
pMdm2_Fwd	AAA CGT CTT TCG GCA ATA GCT C
pMdm2_Rev	GGT CCA GGA GGT GAC AGG T