

Table S1: Oligonucleotide sequences used in this study (sequences are 5' to 3')

Act5C_CRISPR_17nt	CCTATTTTCAATTTAACGTCGCGCAAGTGCTTCTAAGAGTTTAAGAGCTATGCTG
Act5C_CRISPR_18nt	CCTATTTTCAATTTAACGTCGCGCAAGTGCTTCTAAGAGTTTAAGAGCTATGCTG
Act5C_CRISPR_19nt	CCTATTTTCAATTTAACGTCGCGCAAGTGCTTCTAAGAGTTTAAGAGCTATGCTG
Act5C_CRISPR_20nt	CCTATTTTCAATTTAACGTCGCGCAAGTGCTTCTAAGAGTTTAAGAGCTATGCTG
Act5C_CRISPR_21nt	CCTATTTTCAATTTAACGTCGCGCAAGTGCTTCTAAGAGTTTAAGAGCTATGCTG
Act5C_CRISPR_us1	CCTATTTTCAATTTAACGTCGCGCAGGAGTACGACGAGTCGTTTAAGAGCTATGCTG
CRISPR Nup133	CCTATTTTCAATTTAACGTCGTTTAAATAGAAAGACATGTGGTTTAAGAGCTATGCTG
CRISPR Sec61	CCTATTTTCAATTTAACGTCGTTGTTGCTGATTGGATCGCGTTTAAGAGCTATGCTG
CRISPR_ATP_syn	CCTATTTTCAATTTAACGTCGCAAAGGAAGCTGCCTAGATGTTTAAGAGCTATGCTG
CRISPR Nop56	CCTATTTTCAATTTAACGTCGAAAAACAAGGAAGCGGTGGTTTAAGAGCTATGCTG
CRISPR H2Av	CCTATTTTCAATTTAACGTCGGATTGCCGACTGGCTTAGTGTTTAAGAGCTATGCTG
CRISPR_Nterm_tsr	CCTATTTTCAATTTAACGTCGCGAAAACTACAGGAAAAAGTTTAAGAGCTATGCTG
CRISPR_Nterm_Dcr-2	CCTATTTTCAATTTAACGTCGGAGCGAAGATATGGAAGATGGTTTAAGAGCTATGCTG
CRISPR_Cterm_Dcr2	CCTATTTTCAATTTAACGTCGGGGCTGGAATCATCATATTGTTTAAGAGCTATGCTG
Act5C_Ctag_40nt_s	CGACGAGTCCGGCCCTCCATTGTGTCACCGCAAGTGCTTCGGATCTTCCGGATGGCTCGAG
Act5C_Ctag_40nt_as	ATCCCGATCCTGATCCTCTTGCCCAGACAAGCGATCCTTCGAAGTTCTATCTCTAGAAAGTATAGGAACTTCCATATG
Act5C_Ctag_60nt_s	TGGATCTCCAAGCAGGAGTACGACGAGTCCGGCCCTCCATTGTGTCACCGCAAGTGCTTCGGATCTTCCGGATGGCTCGAG
Act5C_Ctag_60nt_as	CCTCCAGCAGAATCAAGACCATCCCGATCCTGATCCTCTTGCCCAGACAAGCGATCCTTCGAAGTTCTATCTCTAGAAAGTATAGGAACTTCCATATG
Act5C_Ctag_80nt_s	TGTCCACCTTCCAGCAGATGTGGATCTCCAAGCAGGAGTACGACGAGTCCGGCCCTCCATTGTGTCACCGCAAGTGCTTCGGATCTTCCGGATGGCTCGAG
Act5C_Ctag_80nt_as	CCTCGACTTCTCCTCCTCCTCCTCCAGCAGAATCAAGACCATCCCGATCCTGATCCTCTTGCCCAGACAAGCGATCCTTCGAAGTTCTATCTCTAGAAAGTATAGGAACTTCCATATG
Act5C Ctag_sense_point_mutation	TGTCCACCTTCCAGCAAATGTGGATCTCCAAGCAGGAGTACGACGAATCCGGCCCTCCATTGTGTCACCGCAAGTGCTTCGGATCTTCCGGATGGCTCGAG
Act5C Ctag_sense_point_mutation 2	TGTCCACCTTCCAACAAATGTGGATCTCCAAGCAGGAGTACGATGAATCCGGCCCTCCATTGTGTCACCGCAAGTGCTTCGGATCTTCCGGATGGCTCGAG
Act5C Ctag_sense_point_mutation 3	TGTCCACCTTACAACAAATGTGGATCTCCAAGCAGGAGTATGATGAATCCGGCCCTCCATTGTGTCACCGCAAGTGCTTCGGATCTTCCGGATGGCTCGAG

tsr Ntag s	AAATATATACTCGGCGAAGCAGCAATTTGAGAATTGTGAAAGCGAAAACTACAGGAAAAGAAGTTCCTATACTTTCTAGAGAATAGGAACTTCCATATG
tsr Ntag as	GTGCACAATGACCGGCCGCTTTTACCACCGAGTCTGAATGCGAGTCCCAAGTGTACGTACACCGCCGCTTGGAGCAGCTGGAGA
Dcr2 Ntag s	ATCGTAAATTATTTGACTTCAAATTTGTAATATCAAATATCCCGAAGACTCTGTAAACCAAGAGCGAAGATGAAGTTCCTATACTTTCTAGAGAATAGGAACTTC CATATG
Dcr2 Ntag as	GATTTTGTTAATTATTTTGAATAAGCGAGAGCGCAAGCCAATTCATTTTACCTTGATTTCCACATCTTCACCGCCGCTTGGAGCAGC
Dcr-2 Ctag s	GAAAAGACGATCAAGGTGTACGGATTTGGGAGCAATAAGGACCAGGCCAAGCTATCGGCTGCCAAGCACGCCCTTCAGCAGCTAAGCAAATGCGACGCCGGATC TTCCGGATGGCTCGAG
Dcr-2 Ctag as	TCTTCCAAAGGATTACGTCTTGGCTAGAAAAGCAAATTCATGTCAGTTTAGCAGAACTAGACTGGGCTGGAATCATCATAGAAGTTCCTATTCTCTAGAAAAGTA TAGGAACTTCCATATG

Nup133 Ctag s	AGAAACCGTTTCAGTATCTGTTGAAACTGACCTATGAGTATGTGGCCGACATGTTCAAACAGCCAGACGACATGGAAGTTCGGATCTTCCGGATGGCTCGAG
Nup133 Ctag as	TCCAAGAACCAGCCATCATTTTAAATTCCTAACGTAACTTTAATAGAAAGACATCTGAGGTGCTTGAGAAGTTCCTATTCTCTAGAAAAGTATAGGAACTTC CATATG
Sec61 Ctag s	CTGTGACCATCATCTACCAATACTTTGAGATTTTCGTTAAGGAGCAGTCCGAAATGGGCGCATGGGCACGCTGCTGTTCCGGATCTTCCGGATGGCTCGAG
Sec61 Ctag as	GCGAGCGTATGGGAAGTATGATGAAGTATTAGTTGTTGCTGATTGGAGCGCAGGTGATCTTCTTGACTGCGAAGTTCCTATTCTCTAGAAAAGTATAGGAACTTC CATATG
ATP_syn Ctag s	TACCTGAAGTTGCTTTCTACATGGTCGGCCCAATCGAAGAAGTTGTAGAAAAGGCTGACCGCCTGGCAAAGGAAGCTGCCGGATCTTCCGGATGGCTCGAG
ATP_syn Ctag as	TATTACAAATTCATGCATAATATTCAATGATAGATTTGCTGACTTTGAAGATTTTCCAGTACGCCTATGAAGTTCCTATTCTCTAGAAAAGTATAGGAACTTC CATATG
Nop56 Ctag s	AAAATGGCAATGGCAACGATGATGGAGAGCCAAAGAAGAAGAAGAAAAGAAGAACAAAAACAAGGAAGCGGTAGAGGCGGGATCTTCCGGATGGCTCGAG
Nop56 Ctag as	AATACAAAAGAAGCATGTAAGTAAAAGATAATAGTGTGGACTTAACTAAGTTGAATGTAACAGAGACATGAAGTTCCTATTCTCTAGAAAAGTATAGGAACTTC CATATG
H2Av Ctag s	ACAAGTCGCTGATCGGCAAAAAGGAGGAAACGGTGCAGGATCCGAGCGGAAGGGCAACGTCATTCTGTGCGAGGCCTACGGATCTTCCGGATGGCTCGAG
H2Av Ctag as	CTTGCTCTGCTGAAATCTGAATTAACATTAGTGTGCATGTTTCGAAGCGTCCGATTGCCGACTGGCGAAGTTCCTATTCTCTAGAAAAGTATAGGAACTTC CATATG

Bam_NLS_FLPe_sense	ACGGATCCTCCAAAATGGTGCCAAAAGAAAAGCGTAAGGTCTCGATGTCACAATTTGGTATATTATGTA AAAAC
Not_FLP_as	ATGCGGCCGCTTATATGCGTCTATTTATGTAGGATGAAAG

Act5C HR donor us sense	AAAgcggccgcTCCGTGACATCAAGGAGAAG
Act5C HR donor us antisense	TTTctcgagCCATCCGGAAGATCCGAAGCACTTGCAGTGCACAA
Act5C HR donor ds sense	AAAatcgatGAAGGATCGCTTGTCTGGGC
Act5C HR donor ds antisense	TTTaaacttCTTTTTCGCTTTGGGAAAT