

SUPPLEMENTARY DATA

Supplementary Text. Sequence and structure of RNAs used in this study. The sequence of mature miRNAs is indicated in red.

Synthetic siRNA duplexes and ss siRNAs

- GFP siRNA

5' -pGGCUACGUCCAGGAGCGCACC
UUCCGAUGCAGGUCCUCGCGUp-5'

- CLP ss siRNA

5' -pAAAUUCUGUACGACCUCUdtdt

- Dicer ss siRNA

5' -pUCCAGAGCUGCUUCAAGCAdtdt

- Rluc siRNA (siRluc)

5' -pGCCUUUCACUACUCCUACdtdt
dtdtCCGGAAAGUGAUGAGGAUGp-5'

- Ctl siRNA

5' -pGUAUAAAACACCGCGCUACdtdt
dtdtCAUAUUAUGUGGCGCGAUGp-5'

- Rluc antisense ss siRNA (asRluc)

5' -pGUAGGAGUAGUGAAAGGCCdtdt

- Ctl antisense ss siRNA

5' -pGUAGCGCGGUGUAUUACdtdt

Synthetic pre-miRNAs, miRNA:miRNA* duplexes and miRNAs

- pre-hsa-miR-31

G C -U GAA
5' -GGCAA AUG UGGCAUAGC GUU C
 CCGUU UAC ACCGUAUCG CAA U
 3' -UA A UC GGG

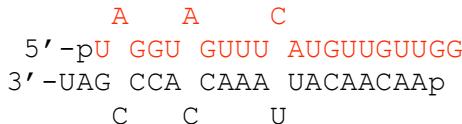
- hsa-miR-31

5' -pGGCAAGAUGCUGGCAUAGCUG

- cel-let-7

5' -pUGAGGUAGUAGGUUGUAUAGUU

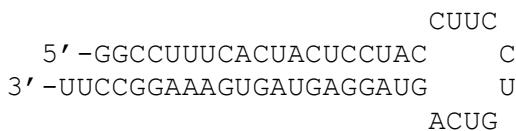
- hsa-miR-196-1 miRNA:miRNA*



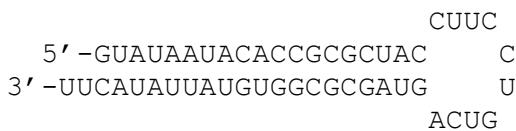
- hsa-miR-196-1
 5' -pUAGGUAGUUUCAUGUUGUUGG

psiSTRIKE-derived shRNAs and pre-miRNA

- Rluc shRNA



- Control shRNA



Target RNAs (synthesized by *in vitro* transcription)

- CLP RNA target (104 nt, CLP nt 414-514)

5' -GGGCUGCAGCGGCCAAACCGGGACGGACAAGACCCUGGUGAAGGAGGUAC
AGAAUUUCGCUAAGGAGUUUGUGAUCAGUGAUCGGAAAGGAGCUGGAGGA

- Dicer RNA target (104 nt, Dicer nt 294-394)

5' -GGGCAUGAUAAACAUUUAUACGCCAAGAAAAAUACAGGUUGAACUGCUUGAAGCAG
CUCUGGAUCAUAAUACCAUCGUCUGUUUAAACACUGGCUCAGGGAAAGAC

- *lin-41* RNA target

5' -GGGGCACCAACTCAAGTATACCCTTTATACAACCGTTCTACACTCAACCGCGATGT
 AAATATCGCAA

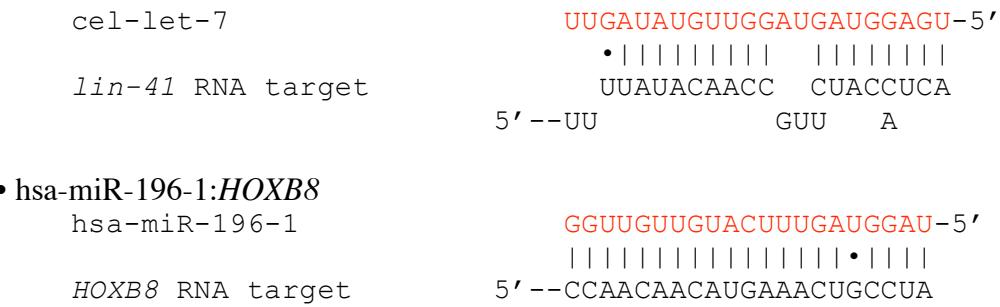
- *HOXB8* RNA target

5' -GGGCCGATTTCTCTGCTAAGTTCTCCCAACAACATGAAACTGCCTATTCACGCCG
 TAATTCTTCT

The first 3 G's are incorporated by the T7 polymerase during transcription. The siRNA/miRNA binding sites are underlined.

miRNA:target base pairing

- cel-let-7:*lin-41*



siRNA:target base pairing

All the siRNA:target combinations are perfectly complementarity.