

Supporting Information

Haley et al. 10.1073/pnas.1006689107

SI Text

PCR Cloning Primers. *ftz* intron. Cloned as separate parts into pCR2.1-TOPO and then transferred to pAc5.1_B.

Part I. F: CCA CTA GTG ACA GCC CCG AAC GGA GCC
R: CCT CTA GAG GTA CCC ATA TTT TCA ATA TTT
TCA AAG TGT ATT TTT AGG GG

Part II. F: CCA CTA GTC TCG AGT TTG TAT ACA TTT TTG
ATA TTT TCA AAC AAT ACG CA

R: CCT CTA GAC TCC AGG GTC TGG TAG CGG G
ftz intron in *pattB*-UAST (PCR amplified from *ftz* intron in pAc5.1)

F: CCG AAT TCG ACA GCC CCG AAC GGA GCC
R: CCT CTA GAC TCC AGG GTC TGG TAG CGG G

tomosyn intron. Cloned as separate parts into pCR2.1-TOPO and then transferred to pAc5.1_B.

Part I. F: CCA CTA GTC AAA GCG TTC AGC CCC AAG CCA
CAC

R: CCT CTA GAG GTA CCA CAG ATG CCT TTC GAT
TAT GGG CAC

Part II. F: CCA CTA GTC TCG AGC GTT GTC TAA GAG CTT
CAA AAT CGA TAA TAA C

R: CCT CTA GAG GAT GTG GGC GAG TAT GGA AAG
CC

Reporter Genes. *eGFP/mCherry*. F: CCT CTA GAA TGG TGA GCA
AGG GCG AGG

R: CCA CTA GTG CTA GCT TAC TTG TAC AGC TCG
TCC ATG CC

eGFP +1 (will introduce frameshift if *ftz* intron is spliced into shmiR hairpin) (Fig. S6)

F: CCT CTA GAC ATG GTG AGC AAG GGC GAG G
R: CCA CTA GTG CTA GCT TAC TTG TAC AGC TCG
TCC ATG CC

***Renilla luciferase*.** F: CCT CTA GAA TGA CTT CGA AAG TTT
ATG ATC CAG AAC AAA GGA AAC

R: CCG CTA GCA ATT ATT GTT CAT TTT TGA GAA
CTC GCT C

***miR-1* cloning primers.** F: CCA AGT GAG TAG TGC CAC
R: CGG TTC TAC TTC TGT TTC AAT C

RT-PCR Primers (Performed in Fig. S6). *ftz* intron. F: CCT CTA GAA
TGG TGA GCA AGG GCG AGG

R: AGC TCC TCG CCC TTG CTC AC

Northern blot probes. *dpp* shmiR: CCA CTC TAG TCG AGA
TCG AGA

dpp-5 shmiR: GGT GAC TAG TCG AGA TCG AGA
2S RNA: TAC AAC CCT CAA CCA TAT GTA GTC CAA
GCA

Table S2. shLuciferase (GL3) 2

Oligonucleotide sequences used to clone Luciferase-targeting shmiRs

lucNE siRNA		
TTCCGTCATCGTCTTTCCGT		
lucNE-2	pNE top	ctagcagtTGGGAAAGACCATGACGGATAtagttatattcaagcataTTCCGTCATCGTCTTTCCCAgcg
TTCCGTCATCGTCTTTCCCA	pNE bot	aattcgcTGGGAAAGACGATGACGGAAAtatgcttgaatataactaTATCCGTCATGGTCTTTCCCAactg
lucNE-3	pNE top	ctagcagtTGCAGAAAGACCATGACGGATAtagttatattcaagcataTTCCGTCATCGTCTTTCCGCAgcg
TTCCGTCATCGTCTTTCCGCA	pNE bot	aattcgcTGCAGAAAGACGATGACGGAAAtatgcttgaatataactaTATCCGTCATGGTCTTTCCGCAactg
lucNE-4	pNE top	ctagcagtTGCCAAAGACCATGACGGATAtagttatattcaagcataTTCCGTCATCGTCTTTGGCAgcg
TTCCGTCATCGTCTTTGGCA	pNE bot	aattcgcTGCCAAAGACGATGACGGAAAtatgcttgaatataactaTATCCGTCATGGTCTTTGGCAactg
lucNE-5	pNE top	ctagcagtTGCCTAAGACCATGACGGATAtagttatattcaagcataTTCCGTCATCGTCTTAGGCAgcg
TTCCGTCATCGTCTTAGGCA	pNE bot	aattcgcTGCCTAAGACGATGACGGAAAtatgcttgaatataactaTATCCGTCATGGTCTTAGGCAactg
lucNE-1(5')	pNE top	ctagcagtACGGAAAGACCATGACGGATTtagttatattcaagcataATTCCGTCATCGTCTTTCCGTgcg
ATTCCGTCATCGTCTTTCCGT	pNE bot	aattcgcACGGAAAGACGATGACGGAAAtatgcttgaatataactaAATCCGTCATGGTCTTTCCGTactg
lucNE-1(5'),-3	pNE top	ctagcagtTGCAGAAAGACCATGACGGATTtagttatattcaagcataATTCCGTCATCGTCTTTCCGCAgcg
ATTCCGTCATCGTCTTTCCGCA	pNE bot	aattcgcTGCAGAAAGACGATGACGGAAAtatgcttgaatataactaAATCCGTCATGGTCTTTCCGCAactg

Table S3. shDpp2 (*dpp*^{shmiR}) all placed in *pattb*-NE3 backboneOligonucleotide sequences used to clone *dpp*-targeting shmiRs

dpp2 siRNA	pNE top	ctagcagtCCACTCTAGTGGAGATCGACAtagttatattcaagcataTCTCGATCTCGACTAGAGTGGgcg
TCTCGATCTCGACTAGAGTGG	pNE bot	aattcgcCCACTCTAGTGGAGATCGACAtatgcttgaatataactaTGTCGATCTCCACTAGAGTGGactg
dpp2-2 siRNA	pNE top	ctagcagtGGACTCTAGTGGAGATCGACAtagttatattcaagcataTCTCGATCTCGACTAGAGTCCgcg
TCTCGATCTCGACTAGAGTCC	pNE bot	aattcgcGGACTCTAGTGGAGATCGACAtatgcttgaatataactaTGTCGATCTCCACTAGAGTCCactg
dpp2-3 siRNA	pNE top	ctagcagtGGTCTCTAGTGGAGATCGACAtagttatattcaagcataTCTCGATCTCGACTAGAGACCgcg
TCTCGATCTCGACTAGAGACC	pNE bot	aattcgcGGTCTCTAGTGGAGATCGACAtatgcttgaatataactaTGTCGATCTCCACTAGAGACCactg
dpp2-4 siRNA	pNE top	ctagcagtGGTGTCTAGTGGAGATCGACAtagttatattcaagcataTCTCGATCTCGACTAGACACCgcg
TCTCGATCTCGACTAGACACC	pNE bot	aattcgcGGTGTCTAGTGGAGATCGACAtatgcttgaatataactaTGTCGATCTCCACTAGACACCactg
dpp2-5 siRNA	pNE top	ctagcagtGGTGACTAGTGGAGATCGACAtagttatattcaagcataTCTCGATCTCGACTAGTACCgcg
TCTCGATCTCGACTAGTACC	pNE bot	aattcgcGGTGACTAGTGGAGATCGACAtatgcttgaatataactaTGTCGATCTCCACTAGTACCactg
dpp2MUT siRNA	pNE top	ctagcagtCCACTCTAGACCAGAAGCACAtagttatattcaagcataTCTGCTTCTGCTCTAGAGTGGgcg
TCTGCTTCTGCTCTAGAGTGG	pNE bot	aattcgcCCACTCTAGAGCAGAAGCAGAtatgcttgaatataactaTGTGCTTCTGGTCTAGAGTGGactg
dpp2-1(5'),-4 siRNA	pNE top	ctagcagtGGTGTCTAGTGGAGATCGACTtagttatattcaagcataACTCGATCTCGACTAGACACCgcg
ACTCGATCTCGACTAGACACC	pNE bot	aattcgcGGTGTCTAGTGGAGATCGACTtagttatattcaagcataAGTCGATCTCCACTAGACACCactg

Table S4. *shftz* splice acceptor and *shwhite* splice acceptors originally cloned into *pattb*-NE3 vector

Oligonucleotide sequences used to clone splice acceptor-containing shmiRs*

<i>ftz</i> acceptor shmiR	pNE top	CTAGCAGTTGCAATCTGTTAGCATAAAGGATAGTTATATTCAAGCATATGCTTATGCTTACAGATTGCAGCG
TGCTTATGCTTACAGATTGCA	pNE bot	AATTCGCTGCAATCTGTAAGCATAAAGCATATGCTTGAATATAACTATCCTTATGCTAACAGATTGCAACTG
<i>white</i> acceptor shmiR	pNE top	CTAGCAGTGCAACCATCTCAAATTAATATAGTTATATTCAAGCATATTTTAATTTGCAGATGGTTGCGCG
TTTTAATTTGCAGATGGTTGC	pNE bot	AATTCGCGCAACCATCTGCAAATTAATAATATGCTTGAATATAACTATATTAATTTGGAGATGGTTGCACTG

*From Fig. S6.