

Table EV1. Oligonucleotide sequences used in this study.

Plasmid construction	5'- 3'
Spn-E-E251Q-F	TCTTGATCAAGTTCACGAAAGAGGACAAGAGATG
Spn-E-E251Q-R	GTGAACTTGATCAAGAATAACATGGGTGTATTG
FLAG-DDX43-F	ATGACGACGATAAGACTGATCGCGACGATGATGA
pIEx1-DDX43-R	CTGAGGTTAATCACTTACCATCTGCCTCTCCCTCTAC
FLAG-R	CTTATCGTCGTCATCCTTGTAATC
pIEx-3'out-F	GTGATTAACCTCAGGTTATAC
HA-DDX43-F	GTTCCAGATTACGCTACTGATCGCGACGATGATGA
HA-R	AGCGTAATCTGGAACATCGTAT
DDX43-D399A-F	GTTTTAGCTGAGGCAGATAGGATGTTAGACATG
DDX43-D399A-R	TGCCTCAGCTAAAACAATATATGAGAAATTTATG
pFastBac-5'out-R	GGTTTCGGACCGAGATCCG
pFastBac-3'out-F	AAGCTTGTGCGAGAAGTACTAG
pFastBac-6HFLAG-F	TCTCGGTCCGAAACCATGCATCATCATCATCATGATTACAAGGATGACGACGAT
pFastBac-Spn-E-R	TTCTCGACAAGCTTTTATGTTTGGAACATCTGAAAATC
SBP-Spn-E-F	GCCAGCGGGAGCCCGATGAATTAAGCATTCTTCAATTC
pcDNA5-Spn-E-R	GCATTACTTAGCTATGTTTGGAACATCTGAAAATCT
pCold-3'out-F	TAGGTAATCTCTGCTTAAAAGC
pCold-5'out-R	CCTACCTTCGATATGATGATG
pCold-DDX43-F	ATATCGAAGGTAGGACTGATCGCGACGATGATG
pCold-DDX43-R	GCAGAGATTACCTACCATCTGCCTCTCCCTCT
pCold-DDX6-F	ATATCGAAGGTAGGATGACCGAAAATAGAATTAGTTC
pCold-DDX6-R	AGCAGAGATTACCTACTTGTCGCCCAGATCTTC
piR484-A_s	GATCCTACCAATCGGGCGTTGCTGTTGCAATTGAAGGAATGAAGACGAAGAAAGTATTGATGAACAGCACAATA
piR484-A_as	AGCTTATTGTGCTGTTTCATCAATACTTTCTTCGTCTTCATTCCTTCAATTGCAACAGCAACGCCCGATTGGTAG
pIB-BmAgo3_PiggyBac_F	TATCAATCGGGCGTTGCTGTTGCAATTCGGTCTCGATTCTACGC
pIB-BmAgo3_PiggyBac_R	AATTGCAACAGCAACGCCCGATTGATAAGGAGAGGGTTAGGGATAGGCTTAC
Target RNA preparation	
BmAgo3 target RNA 5' fragment	AGAGUCCUUCGAUAGGGACAAGACA AUUGCACUGAUGAACUCCUCUCU UCCCGCAGACAGCAAUUCUCA
BmAgo3 target RNA 3' fragment	UGC UUUUCCU UUUUAUACAACCGUUCUACACUCAACGCGAUGUAAAUC
BmAgo3 target bridge oligo	TATAAAAGGAAAAGCATGAGAATTTGCTGTC
dsRNA preparation	
dsRluc (Renilla luciferase) -F	TAATACGACTCACTATAGGGCCTTTCACTACTCCTACGAGC
dsRluc (Renilla luciferase) -R	TAATACGACTCACTATAGGGTGGAGCGTCCTCCTGGCTG
dsSiwi-F	GCGTAATACGACTCACTATAGGATCACCCCAGAAAGACAACG
dsSiwi-R	GCGTAATACGACTCACTATAGGCTGTGCACGTATGGGATTTG
dsSpnE-CDS-F	TAATACGACTCACTATAGGGACCGCAAGATCATTCTTTCCA
dsSpnE-CDS-R	TAATACGACTCACTATAGGGTCCGTAGACATAGCCGAGCA
dsSpnE-UTR-F	TAATACGACTCACTATAGGGACCGTTTATTTTAACTAACTG
dsSpnE-UTR-R	TAATACGACTCACTATAGGGGCCATATTTTCAATTTCACTTC
dsDDX43#1-F	TAATACGACTCACTATAGGGACCGATAAAGTAGGTAGGG
dsDDX43#1-R	TAATACGACTCACTATAGGGCAGCTTATCCCATCTGTTGT
dsDDX43#2-F	TAATACGACTCACTATAGGGACATGGCCTACTGGAGTAC
dsDDX43#2-R	TAATACGACTCACTATAGGGATGCAACATCAGTGGCAATC
dsDDX6-F	TAATACGACTCACTATAGGGCGTGTGTTTCACGACTTTTCG
dsDDX6-R	TAATACGACTCACTATAGGGTTGGAATTGGCTTGATTTC
Quantitative real-time PCR	
rp49 -F	AGGTATTGACAACAGAGTCC
rp49 -R	GGAGCATATGACGGGTCTTC
DDX43 -F	GTAGTCGTACAGACACCGGC
DDX43 -R	TATTACGGCCGCGATTTCCA
Probes for northern blot analysis	
piR484-A	TCATTCCTTCAATTGCAACA
Artificial_Siwi_piRNA_PiggyBac	TACGCGTAGAATCGAGACCGAATTGCAACA