

Table S6. Primers used for qRT-PCR and RT-PCR analysis
qRT-PCR experiment

Experiment ID	Catalog number	Primer ID	Primer sequence	Length	Location UCSC mm10	Cycles
mPiwil1	Mm00451649_m1	PIWIL1-F PIWIL1-R	5'-AATAATATTTTCAGGAGGCTTTTG-3' 5'-AATCACCAACCTGTGACTTGG-3'	≈64	mChr5: :128,736,246-128,755,474	40 cycles
mPiwil2	Mm00502383_m1	PIWIL2-F PIWIL2-R	5'-CCAGCACAAAGGAGTCTGT-3' 5'-GCCTCTACCTGATGGAAGCA-3'	≈96	mChr14: 70,372,480-70,429,094	40 cycles
mPiwil4	Mm01144775_m1	PIWIL4-F PIWIL4-R	5'-TTCCCCAGCACAAATTATCC-3' 5'-ACGTCTGGGTGAAACAGGAC-3'	≈63	mChr9: 14,702,358-14,740,733	40 cycles

Primer assay information			
Primer Name	Assay ID	Catalog Number	Amplicon Size
PIWIL 1	Mm00451649_m1	44448892	64
PIWIL 2	Mm00502383_m1	44448892	96
PIWIL 4	Mm01144775_m1	44448892	63
BETA ACTIN	Mm02619580_g1	44453320	143
RPL41	Mm02524711	4448892	72

Multiplexed RT-PCR experiment

Experiment ID	Cycles	Primer ID	Primer sequence	Length
Target piRNA sequence			5'-UGAUCUCGGAAGCUAAGCAGGGUCGGG-3'	
Reverse transcription (GSP)		m-piRNA-all-SEQ-RT-Rev1	5'-TGATGCAGGTGTCGTGGAGTCGGCAATCTGCATCACCCGACCC-3'	
piRNA based on sequence (all tissues)	45	m-piRNA-all-SEQ-Fwd2 m-piRNA-all-SEQ-Rev2	5'-GCAGGGAGCCTTCGAATCGATTCTGTC-3' 5'-TTCTGCATCAGGGCTGGGAC-3'	≈58