# Appendix

Nuclear RNA export factor variant initiates piRNA-guided co-transcriptional silencing

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#### Appendix Figure S1. Related to Discussion.

(A) The scheme shows regions targeted by qPCR, following ChIP experiments.

**(B)** ChIP-qPCR analysis of RNA polymerase II (Pol II) occupancy on the reporter gene upon λN-Nxf2 tethering. Bar graph shows the occupancy relative to that of EGFP. Error bars indicate SD (n=3). OSCs were harvested at 48 or 96 hpt.

(C) Time course of Pol II occupancy on region 1, immediate upstream of 14 boxB sites, upon  $\lambda$ N-Nxf2 tethering. OSCs were harvested at the indicated time points. Error bars indicate SD (n=3). Contrary to our expectations, Pol II accumulation by the enforced tethering of Nxf2 at 14 boxB sites was not observed.

(D) RNA levels of *PAF1* and *RTF1* were quantified by qRT-PCR upon treatment of siEGFP (control), siPAF1, or siRTF1. Error bars represent SD (n=3).

(E) RNA level of *mdg1* was quantified by qRT-PCR upon treatment of siEGFP (control), siPAF1, or siRTF1. Error bars represent SD (n=3). Depletion of PAF1 or RTF1 enhanced the silencing of *mdg1* in OSCs.

(F) Depletion of PAF1 and RTF1 slightly weakened the luciferase activities from the reporter gene with 14 boxB sites integrated in the OSC genome. Error bars represent SD (n=4).

(G) Effects of knockdown of PAF1 and RTF1 on boxB reporter activity upon  $\lambda$ N-Nxf2 expression. Bar graph shows luciferase activity relative to that of the sample co-transfected with myc-EGFP and siEGFP (control). Error bars indicate SD (n=4). Transfection schedule of siRNA and protein expression plasmids is shown at the top of the figures. Depletion of PAF1 or RTF1 had no impact on the silencing by the enforced tethering of Nxf2 on a nascent transcript.

(H and I) Effects of exogenous expression of PAF1 and RTF1 on boxB reporter activity upon  $\lambda$ N-Nxf2 expression. Bar graph shows luciferase activity relative to that of the sample transfected with myc-EGFP (control). Error bars indicate SD (n=4). Transfection schedule of plasmids is shown at the top of the figures. Exogenous expression of PAF1 or RTF1 did not cancel the silencing by the enforced tethering of Nxf2 on a nascent transcript.



#### Appendix Figure S2. Related to Discussion.

(A) The scheme shows regions targeted by qPCR, following ChIP experiments.

**(B)** ChIP-qPCR analysis of H3K4me3 occupancy on the reporter gene (14 boxB-Luc reporter gene integrated into the genome) upon  $\lambda$ N-Nxf2 tethering. Bar graph shows % input. Error bars indicate SD (n=3). Regions targeted by qPCR are shown in (A). OSCs were harvested at 48 h post-transfection (hpt). H3K4 methylation is a transcriptionally active marker. Although occupancy of H3K4me3 on the *RP49* gene was not affected by  $\lambda$ N-Nxf2 expression, the occupancy of H3K4me3 on the reporter gene decreased even at an earlier time point (48 hpt).

(C) RNA level of LSD1 was quantified by qRT-PCR upon treatment of siEGFP (control) or siLSD1. Error bars represent SD (n=3).

(D) RNA level of *mdg1* was quantified by qRT-PCR upon treatment of siEGFP (control) or siLSD1. Error bars represent SD (n=3). *mdg1* was de-silenced by LSD1 depletion.

(E) Luciferase activity was not affected by depletion of LSD1. Error bars represent SD (n=4)

(F and G) Effects of knockdown of LSD1 on boxB reporter activity upon  $\lambda$ N-Nxf2 expression. Bar graph shows luciferase activity relative to that of the sample co-transfected with myc-EGFP and siEGFP (control). Error bars indicate SD (n=4). Transfection schedule of siRNA and protein expression plasmids is shown at the top of the figures. Depletion of LSD1 had limited impact on the silencing by the forced tethering of Nxf2 on a nascent transcript.

(H) Schematic model showing the target-engaged Piwi. "The target-engaged Piwi" can recruit the Panx-Nxf2-p15 complex to the target, which elicits co-transcriptional repression. However, "the scanning Piwi" is in the process of searching for targets through random interaction between piRNA and transcripts, many of which likely show partial complementarity. The scanning Piwi cannot recruit Panx-Nxf2-p15 complex to the target.

(I) Schematic model showing Piwi that is targeted by piRNA or is tethered by  $\lambda$ N-boxB interaction in the reporter systems. Piwi targeted by piRNA derived from the *flam* locus can recruit the Panx-Nxf2-p15 complex to the reporter gene, leading to co-transcriptional silencing. Piwi tethered by  $\lambda$ N-boxB interaction cannot recruit the Panx-Nxf2-p15 complex to the reporter gene, and thus fails to induce silencing.

## Upper band

Rank	Description	Accession	emPAI	Score	Mass	Sequence coverage (%)
1	Piwi [Drosophila melanogaster]	429892668	8.06	1054	97037	70
2	piwi, partial [Drosophila simulans]	418207352	2.65	535	95840	46
3	GH10652p [Drosophila melanogaster]	20976828	2.05	698	88155	51
4	rasputin [Drosophila melanogaster]	7739653	1.63	531	74940	43
5	DNA ligase III [Drosophila melanogaster]	84796152	1.33	579	90791	44
6	Fmr1, isoform G [Drosophila melanogaster]	383292605	1.32	303	80980	29
7	CG10077, partial [Drosophila busckii]	924558740	0.72	294	86515	30
8	combgap, isoform B [Drosophila melanogaster]	21645407	0.67	270	83703	14
9	single-stranded recognition protein [Drosophila melanogaster]	290280	0.6	227	81645	30
10	belle, isoform A [Drosophila melanogaster]	17985987	0.57	162	85029	24

#### Middle band

Rank	Description	Accession	emPAI	Score	Mass	Sequence coverage (%)
1	Fmr1, isoform A [Drosophila melanogaster]	19922726	7.94	1237	76030	64
2	hsp 82 [Drosophila melanogaster]	8127	4.9	946	81814	61
3	nuclear RNA export factor 2 (NXF2) [Drosophila melanogaster]	14456090	2.03	703	96573	41
4	Nnp-1 [Drosophila melanogaster]	7298046	1.02	276	78947	34
5	belle, isoform A [Drosophila melanogaster]	7299061	0.83	201	85029	32
6	Bj6 protein [Drosophila melanogaster]	7662	0.74	201	77005	27
7	DNA replication factor MCM7 [Drosophila melanogaster]	4903288	0.69	155	81232	22
8	eIF3-S9, isoform A [Drosophila melanogaster]	7302767	0.61	157	80391	30
9	GH14068 [Drosophila grimshawi]	193891778	0.53	322	80175	19
10	rasputin [Drosophila melanogaster]	7739653	0.41	110	74940	14

#### Lower band

Rank	Description	Accession	emPAI	Score	Mass	Sequence coverage (%)
1	CG9754/Panoramix/Silencio [Drosophila melanogaster]	7291281	5.57	617	61110	45
2	no-on-transient A product form I [Drosophila melanogaster]	157978	4	610	76920	48
3	AT19081p [Drosophila melanogaster]	21429758	2.82	499	79722	44
4	RecName: Full=Protein claret segregational	127945	2.75	684	77426	55
5	glucosidase 2 beta subunit, isoform A [Drosophila melanogaster]	7298396	1.46	309	61501	34
6	uncharacterized protein Dmel_CG10565, isoform A [Drosophila melanogaster]	7296390	0.79	150	73575	23
7	Fragile X related [Drosophila melanogaster]	6503206	0.76	208	75773	28
8	belle, isoform A [Drosophila melanogaster]	7299061	0.65	134	85029	32
9	CG8368, isoform A [Drosophila melanogaster]	7295335	0.56	183	76671	35
10	LD25239p [Drosophila melanogaster]	16198023	0.52	196	71051	10

# Appendix Table S1. List of proteins detected in MS analysis (related to Figure 1)

Proteins detected by MS analysis of indicated bands from Panx-immunoprecipitation followed by silver staining (Fig 1A) are listed with their accession number, emPAI, Score, Mass, and Sequence coverage.

# Appendix Table S2

Protein	Annotation Symbol	Significance (p-value, -log10)	Enrichment (peptide count in flag-Nxf2 IP +1/Control IP +1, log2)
Nxf2	CG4118	5.32	5.71
Hsc70-4	CG4264	4.05	5.23
betaTub56D	CG9277	3.50	4.52
Panx	CG9754	3.37	5.09
alphaTub84B alphaTub84D alphaTub85E	CG1913	3.36	4.86
HtrA2	CG8464	3.35	4.17
betaTub56D betaTub85D	CG9277	2.92	3.91
alphaTub84B alphaTub84D	CG1913	2.52	4.17
blw	CG3612	2.49	3.46
Hsc70-3 Hsc70-4	CG4147	2.49	3.46
CG7194	CG7194	2.22	4.46
CkIIalpha	CG17520	2.22	3.00
Hrb98DE	CG9983	2.22	3.00
Ant2 sesB	CG1683	1.98	3.58
Droj2	CG8863	1.91	3.91
DnaJ-1	CG10578	1.86	2.81
betaTub56D betaTub60D betaTub85D	CG9277	1.81	2.58
Cctgamma	CG8977	1.81	2.58
p15 (Nxt1)	CG12752	1.79	3.17
UQCR-C2	CG4169	1.74	4.25
Fib	CG9888	1.74	3.32
Ssrp	CG4817	1.72	3.58
ATPsynbeta	CG11154	1.62	3.70
lost	CG14648	1.55	4.46
porin	CG6647	1.52	3.46
Ef1alpha100E Ef1alpha48D	CG1873	1.49	4.25
Hsp68	CG5436	1.45	3.00
sqd	CG16901	1.45	4.00
T-cp1	CG5374	1.45	4.00
Hsp26	CG4183	1.39	3.17
Rpn2	CG11888	1.24	3.32
Grip71	CG10346	1.20	3.46
CG14207	CG14207	1.10	2.58
Rpt6	CG1489	1.10	2.58
AGO2	CG7439	1.08	4.17
Hsp83	CG1242	1.06	4.32
Hsc70-3	CG4147	0.99	2.81
l(2)gl	CG2671	0.90	3.91
CG6439	CG6439	0.88	3.00
Hsp23	CG4463	0.87	3.32
Hsp27	CG4466	0.85	2.58
hyd	CG9484	0.82	4.39
Tcp-1zeta	CG8231	0.80	4.25
CG9281	CG9281	0.74	4.39
dre4	CG1828	0.74	3.17
eIF-4a	CG9075	0.74	3.17
spn-E	CG3158	0.74	2.81
pAbp	CG5119	0.73	4.09
Piwi	CG6122	0.71	2.58
14-3-3zeta	CG17870	0.71	2.58
bel	CG9748	0.71	2.58
Нор	CG2720	0.71	2.58
Nap1	CG5330	0.71	2.58
РуК	CG7070	0.71	2.58
r	CG18572	0.71	2.58
Rpt3	CG16916	0.71	2.58
Mtor	CG8274	0.70	3.81
Dcr-2	CG6493	0.70	3.17
CG8258	CG8258	0.56	2.58
smid	CG8571	0.56	2.58

## Appendix Table S2. List of proteins detected in shotgun proteome analysis of flag-Nxf2 (related to Figure 2)

Proteins detected with shotgun proteome analysis of flag-Nxf2 immunoprecipitants are listed. Enrichment of peptide obtained by flag-Nxf2 IP over Control IP (log2 value of peptide count+1), and significance calculated by replicate experiments as the p-value (-log10) are listed along with protein name and annotation symbol. Proteins with significance over 0.5 and enrichment over 2.5 are indicated (ribosomal proteins are excluded from the list).

		1	
Name BoxB_EcoRlfor	Sequence gatGAATTCGCTAGCTTCCCTAAGTCCAACT	Usage Described in the Methods section	Vector construction method Described in the Methods section
BoxB_Xholrev BoxB_Sallfor	gacCTCGAGATAATATCCTCGATAGGGCC gatGTCGACGCTAGCTTCCCTAAGTCCAACT		
Fluc_KpnIfor	acgtggtaccaacatggccgaagacgccaaaaacataaagaaag	pAc-Fluc-5boxB vector construction	RE digest with KpnI/EcoRI
Ubpro_BamHlfor	GATggatccGAAGCGACTGGCGATTCGCGTG	Described in the Methods section	Described in the Methods section
Ubpro_KpnIrev lambdaN_KpnIfor	ACGTggtaccGGATTATTCTGCGGGGAAGAAAATAGAGATGTG	nUASn-lambdaN-MCS vector construction	BE digest with Knnl/Notl
lambdaN Notirev	ctcgagcggcgcggaattcggatccGCTAGCgcGTAATCTGGAACATC		
lamdaN Nhel for	GTATGGGTAAGCC acqtGCTAGCaacATGGACGCACAAACACGACGACGTG	Described in the Methods section	Described in the Methods section
lamdaN_Nhel_rev	acgtGCTAGCgcAGCGTAATCTGGAACATCGTATGGGTAAG		
Nxf2_HindIIIfor	ATAAGCTTATGCCAAACCAGATGAGAG	pAcM-Nxf2 vector construction	RE digest with HindIII/EcoRI
Nxf2_EcoRIrev Nxf2-sires-INVfor	ATGAATTCCTAGGCGAATGCTAGATC GAACGAGATAACTGTCCATCATAAGGGCCGCCTGGAA	pAcM-Nxf2 sires vector construction	inverse PCR from pAcM-Nxf2
Nxf2-sires-INVrev	CTTATGATGGACAGTTATCTCGTTCCAATGGGTACCC	n A M Not O AL DD vector construction	DE digest with HindIII/EeeDI
Nxf2delLRR_EcoRIrev	ATGAATTCCTAGGCGAATGCTAGATC		ne algest with hindrineconi
Nxf2delUBA_HindIIIfor Nxf2delUBA_EcoBirev	ATAAGCTTATGCCAAACCAGATGAGAG ATGAATTCTTAATCCGGAAAATTTACACTGAAAG	pAcM-Nxf2-ΔUBA vector construction	RE digest with HindIII/EcoRI
Nxf2delC-HindIIIfor	ATAAGCTTATGCCAAACCAGATGAGAG	pAcM-Nxf2-∆C vector construction	RE digest with HindIII/EcoRI
Nxf2delC_EcoRirev Nxf2delNTF2_INVfor	CCAAGTGAACGTCAGGCCAGGATT	pAcM-Nxf2-∆NTF2 vector construction	inverse PCR from pAcM-Nxf2-sires
Nxf2deINTF2_INVrev	CAACGACTGGCCAGGATTCG		
Nxf1_HindIIIfor	ATAAGCTTATGCCCAAACGCGGCGGT	pAcM-Nxf1 vector construction	RE digest with HindIII/EcoRI
Nxf1_EcoRirev Nxf3_HindIIIfor	ATGAATTCTTACTTCATAAAAGCCTCAGGCGG ATAAGCTTATGGGATCCGTGCTGGAC	pAcM-Nxf3 vector construction	BE digest with HindIII/EcoBI
Nxf3_EcoRirev	ATGAATTCTTAAAGGTCATCGCATCCAAACAGG		
Panx_Kpnlfor	AATGGTACCATGGAAGCTCCGATGAAGCT	pAcEGFP-Panx vector construction	RE digest with KpnI/NotI
Panx_NotIrev Panx-sires_INVfor	ATTGCGGCCGCTCACTATGGCTGTCGACCCTTTA	nAcEGEP-Pany sires vector construction	inverse PCB from pAcEGEP-Pany
Panx-sires_INVrev	CGGCATCTTCTTTGATCTTCGGTTCCATCTTAGG		
PanxdelC1_INVfor PanxdelC1_INVrev	ATTGGAGAATTTAATAGGTC	pACEGFP-Panx-AC1 vector construction	inverse PCR from pAcEGFP-Panx-sires
PanxdelC2_INVfor PanxdelC2_INVrev	TAGGCGGCCGCTCGAGTCTA	pAcEGFP-Panx-∆C2 vector construction	inverse PCR from pAcEGFP-Panx-sires
PanxdelN_INVfor	CCGCAAAATGATACGCCCAT	pAcEGFP-Panx-ΔN vector construction	inverse PCR from pAcEGFP-Panx-sires
PanxdelN_INVrev	CATGGTACCGTCGACTGCAG		
p15_HindIllfor	AATAAGCTTATGGACAGCGATTTGAAAGC	pAcM-p15 vector construction	RE digest with HindIII/NotI
p15-sires_INVfor	CAGCAGATAGGTCGCCTCTATTTGG	pAcM-p15_sires vector construction	inverse PCR from pAcM-p15
p15-sires_INVrev	TCTCCTATTGTCCACGGAGGCGTAG		
Panx-mid_BamHlfor	AATGGATCCCCGCAGCTGATCTCATTGCACA	pGEX-Panx-mid vector construction	RE digest with BamHI/NotI
Panx-mid_NotIrev Nxf2Full-EcoRlfor	AATGCGGCCGCTCAGGACTCATTAACAGGGAGTT atgaattcATGCCAAACCAGATGAGAG	pPET-Nxf2-full vector construction	RE digest with EcoRI/Sall
Nxf2Full-Sallrev	ATGTCGACCTAGGCGAATGCTAGATC	DGEX Nyf2 LDB voctor construction	PE digost with RomHI/NotI
Nxf2LRR_NotIrev	ATGCGGCCGCCTAGAAAGGCTTTCCATCCA		ne ugest with Banninkoti
p15_BamHlfor p15_NotIrev	ATTGGATCCCCATGGACAGCGATTTGAAAG AATGCGGCCGCTCAGACCTCCTGCATTCGGT	pGEX-p15 vector construction	RE digest with BamHI/NotI
egg_INVfor	TGCGAATTGTCGCTCCAAGT	pGEX-Egg-Nter vector construction	inverse PCR from pGEX-Egg-full
egg_INVrev PAF1for_KpnI	TAAGCGGCCGCATCGT acgtggtaccATGCCACCCACGATCAACAATTCGGC	pAcM-PAF1 vector construction	RE digest with KpnI/NotI
PAF1rev_NotI BTE1for Konl	ACGTgcggccgcTCATTCATCTGAGGCGCCTTCCAGAGC	nAcM.RTE1 vector construction	BE digest with Konl/Notl
BTF1rev Notl	ACGTacaaccacCTAGATAAGACCGCGCTTTTTTTGTAATCCT		
Panx_for	CAAAGAGGAGCCACCGGAAT	Panx qPCR	
Panx_for Panx_rev Nxf2 for	CAAAGAGGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTCACTGCG CCTCGAACGGTTTCACTCCA	Panx qPCR	
Panx_for Panx_rev Nxf2_for Nxf2_rev	CAAAGAGGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTICACTCCA AGATCCTGCACCCAGTTGTG	Panx qPCR Nxf2 qPCR	
Panx_for Panx_rev Nxf2_for Nxf2_rev Piwi_for Piwi_rev	CAAAGAGGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTCACTCCA AGATCCTGCACCAGTTGTG CGACCAAGAACCGTAGCCTT CTCCGTGACTGTGCTGAAGT	Panx qPCR Nxf2 qPCR Piwi qPCR	
Panx_for       Panx_rev       Nxt2_for       Nxt2_rev       Piwi_for       Piwi_rev       mdg1_for       Print_rev	CAAAGAGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTACTGTGC CCTCGAACGGTTTCACTCCA AGATCCTGCACCCAGTTGTG CGACCAAGAACCGTAGCCTT CTCCGTGACTGTGCTGAAGT AACAGAAACGCCAGCAACAGC CGTCCCGTGTCCGTGTGCTGAT	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR	
Panx_for Panx_rev Nxt2_for Nxt2_rev Piwi_for Piwi_rev mdg1_for mdg1_rev roo_for	CAAAGAGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTCACTCCA AGATCCTGCACCCAGTTGTG CGACCAAGAACGATAGCCTT CTCCGTGACTGTGCTGAGCGCT AACAGAAACGCCAGCAACAGC CGTTCCCATGTCCGTGTGGAT CGTCCGTGTCCGTTGTGGAT CGTCTGCAATGTACTGGCTCT	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR reo qPCR	
Panx_for       Panx_rev       Nxt2_for       Pwim_for       Pwim_for       Pwim_rev       mdg1_for       mdg1_rev       roo_for       roo_rev       HetA_for	CAAAGAGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTCACTCCA AGATCCTGCACCCAGTTGTG CGACCAAGAACGATAGCCTT CTCCGTGACTGTGCTGAGCCTT CTCCGTGACATGTACTGGCT GGTTCCCATGTCCGTTGTGAT CGTTCCGATGTACTGGCTCT CGGCCGGACTCACTACTGCCC CGGCCGCAACCAACCTTCCAGA	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR	
Panx_for       Panx_rev       Nxt2_for       Nxt2_for       Piwi_for       Piwi_rev       mdg1_for       mdg1_for       rev	CAAAGAGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTCACTCCA AGATCCTGCACCCAGTTGTG CGCCCAGAACCGTAGCCTT CTCCGTGACTGTGCTGAGCCTT CTCCGTGACATGTACTGGCGT GGTTCCCATGTCGTTGGTAT CGTCTGCAATGTACTGGCTCT CGGCGCGGACCCATCTTCAGA CGCCCTGGAACCCATCTTCGTGAT CGCCCTGGAACCCATCTTCGTGAGT CGCCCTGGAACCCATCTTGGTGAGT	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Bef1 qPCR	
Panx_for Panx_rev Nxf2_for Nxf2_rev Piwi_rev Piwi_rev mdg1_for mdg1_rev roo_for roo_rev HetA_for HetA_rev Ref1_rev Ref1_rev	CAAAGAGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTAACTGTGC CCTCGAACGGTTTAACTGTGC CGACCAAGAACCGTTAGTG CGACCAAGAACCGATAGCCTT CTCCGTGACTGTGCTGAAGT AACAGAAACGCCAGCAACAGC CGTTCCCATGTCCGTTGTGAT CGCCGCGAACTGATCTACTCCC CGCCGCGAACTGATTGGTGAGT CGCCGCGAACGACTGGTTGGTGAGT GCGCTTGGAAGCACGATATG CGTAGTCCAGGTTACCGACG	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR	
Panx_for       Panx_rev       Nxf2_for       Nxf2_rev       Piwi_for       Piwi_for       mdg1_for       mdg1_rev       roo_for       roo_rev       HetA_rev       Ref1_rev       RP49_for       RP49_rev	CAAAGAGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTAACTGTGC CCTCGAACGGTTTAACTGTGC CGACCCAGACACCCAGTTGTG CGACCAAGAACCGCATGAGCTT CTCCGTGACTGTGCTGAGT AACAGAAACGCCAGCAACAGC CGTTCCCATGTCCGTTGTGAT CGGCGCAACAGCATGTCTCCAC CGGCGCAACAGCATGTCTCCAC CGCCGCAGTCGTTTGGTGAGT GCGCTTGGAAGCACGATTG CGCGCTGGAAGCACGATTG CCGCTTCAAGGTACCGACG CCGCTCCAAGGTACCGACG	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR RP49 qPCR	
Panx_for       Panx_rev       Nxf2_for       Nxf2_rev       Piwi_for       Piwi_for       Piwi_rev       mdg1_for       mdg1_for       rev       Pixi_rev       Ref_for       HetA_rev       Ref1_rev       RP49_rev       14BoxBLuc_ChIPfor	CAAAGAGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTAACTGTGC CCTCGAACGGTTTAACTGTGC CGACCAAGAACCGTTAGTG CGACCAAGAACCGTAGCCTT CTCCGTGACTGTGCGAAGAGT AACAGAAACGCCAGCAACAGC CGTTCCCATGTCCGTTGTGAT CGCGCGCAGTCGTTGGTGAT CGCGCGCAGTGCTTGGTGAGT CGCGCGCAGTGCTTGGTGAGT GCGCTTGGAAGCACGATATG CGCGCGCAGTACTGGTTGG CCGCTCCAAGGTACCGACG CCGCTTCGAAGGACAGTATGTG ATCTCGCCGCAGTAACGC CAGCCGCGCAGTAACGC	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR RP49 qPCR boxB qPCR	
Panx_for       Panx_rev       Nxf2_for       Nxf2_for       Piwi_for       Piwi_for       Piwi_for       Piwi_for       Piwi_for       Piwi_for       Piwi_for       Rdf_for       HetA_for       HetA_rev       Ref1_rev       RP49_rev       14Box8Luc_ChIPfor       14Box8Luc_ChIPfor       14Box8Luc_ChIPfor	CAAAGAGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTAACTGTGC CCTCGAACGGTTTAACTGTGC CGACCAAGAACCGTAGCCTT CTCCGTGACCTGTGGTGAGT ACAGAAAACGCCAGCAACAGC CGTTCCCATGTCCGTTGTGAT CGCGCGCAGCAGTAGTGCGT CGCGCGCAGCAGTACTGCGC CGCGCGCAGCAGTACTGGTGGG CCGCTTGGAAGCACGATATG CCGCGCAGCAGTACCGC CCGCTCCAAGGTACCGACG CCGCTCAAGGTACCGACG CCGCTCAAGGTACCGACGACG CCGCTCAAGGTACCGACGACG CCGCAGCAGCATCTGGTTTC AGGCAACGCAGCAGTCAGGTCGCGT GCCGAAGCCACGCCAAAACAT	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR RP49 qPCR boxB qPCR Fluc(4-300) qPCR	
Panx_for       Panx_rev       Nxf2_for       Nxf2_for       Piwi_for       Piwi_for       Piwi_for       Piwi_for       Piwi_for       Piwi_for       Piwi_for       Ref_for       HetA_for       HetA_rev       Ref1_rov       RP49_rov       14BoxBLuc_ChIPfor       14BoxBLuc_ChIPfor       Fluc_4_ChIPfor       Fluc_42CTBfor	CAAAGAGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTAACTGTGC CCTCGAACGGTTAACTGTGC CGCCACAGAACCGTAGCCTT CTCCGTGACCGGTGCGTAGCCTT CTCCGTGACCGTGTGGTGAT CGCCGCAGCAGCGCGCGCC CGCTCGCAGTAGCTGCGCGC CGCGCGCAGCGCTCTCAGA CGCGCGCAGCGCTCTCAGA CGCGCGCAGCGCTCGGAGAC CGCGCGCAGCGCTCGGAGGC CCGCTTCAAGGAACGGACGA CCGCGCAGCGCTCGGAGGC CCGCTCAAGGTACCGAC CCGCTCAAGGTACCGACG CCGCTCAAGGCACCAGC CCGCTCAAGGCACCAGC CCGCTCAAGGCACCAGC CCGCTCAAGGCACCAGC CCGCTCAAGGCACCAGC CCGCTCCAGGCACCAGC CCGCTCCAGGCACCAGC CCGCTCCAGGCACCAGC CCGCTCCAGGCCACCGC CCGCTCCAGGCCCCCA CCGCGCAGCCACCGCCC CCGCTCCAGGCCCCAACCC CCGCTGCAGGCCCCAACCC	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR RP49 qPCR boxB qPCR Fluc(4-300) qPCR Fluc(4-300) qPCR Fluc(1277-1512) qPCB	
Panx_for       Panx_rev       Nxf2_for       Nxf2_rev       Piwi_for       Piwi_for       Piwi_for       Piwi_for       Piwi_for       Piwi_for       Piwi_for       Rdf_for       HetA_for       HetA_for       Ref1_rev       RP49_rev       14BoxBLuc_ChIProv       Huc_4_ChIProv       Fluc_300_ChIPrev       Fluc_1272RTfor       Fluc_152RTrev	CAAAGAGAGCCCACCGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTAACTGTGC CCTCGAACGGTTTAACTGTGC CGACCAAGAACCGTAGCCTT CTCCGTGACCGATGTGTGG CGACCAGGACCGGTGGCGAGC CGTTCCCATGTCCGTTGTGAT CGCGCGCAGCATGTCGTGGTGAT CGCGCGCAGCATGTCGTGGTGAGT GCGCTTGGAAGCACGATATG CGCGCGCAGCGTTTGGTGAGT GCGCTTCGAGGTACCGACG CCGCTCGCAGGTACCGACG CCGCTCGCAGGTACCGACG CCGCTCGCAGGTACCGACG CCGCTCGCAGGTACCGACG CCGCTCGCAGGTACCGACG CCGCTCGCAGGTACCGACG CCGCTCGCGCGCCCCACG CCGCTCGCAGGCACACGCCCCA ACTGCGACGCAAAACAT TCCGGAGAGCCAAAACAT CCGGAGAGCTAACGCACCACG CCGCGTAACGCGCCCA	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR RP49 qPCR boxB qPCR Fluc(4-300) qPCR Fluc(1277-1512) qPCR	
Panx_for       Panx_rev       Nxf2_for       Nxf2_rev       Piwi_for       Piwi_for       Piwi_for       Piwi_for       Piwi_for       Piwi_for       Piwi_for       Rdf_for       HetA_for       HetA_for       HetA_for       HetA_for       HetA_for       HetA_for       Pivg_for       RP49_for       RP49_rev       14BoxBLuc_ChIPrev       Fluc_300_ChIPrev       Fluc_1512RTrev       PAF1_rev	CAAAGAGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTACTCACTCA AGATCCTGCACCCAGTTGTG CGACCAAGAACCGTAGCCTT CTCCGTGACCTGTGCTGAAGT AACAGAAACGCCAGCAACAGC CGTTCCCATGTCCGTTGTGAT CGCGCGACAGCATGTACGGCCT CGGCGCACAGTGTCGGCGCT CGCGCGCAGCATCTCAGA CGCGCGCAGCATCTCGAGA GCGCTTGGAAGCAGCATATG CGCGCGCAGGTACCGACG CCGCTTCAAGGAACGATATG CGCGCGCAGGTTACGGC CGCGTCAGGTACCGACG CGCGTCAGGTACCGACG CGCGCGCAGCTTTTC AGGCAAGCGCAAAAACAT TCCGCGCAGCAGCAGCACGC CGCGTAGCAGCAAGACGACAC CGCGCAGCGCA	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR RP49 qPCR boxB qPCR Fluc(4-300) qPCR Fluc(1277-1512) qPCR PAF1 qPCR	
Panx_for       Panx_rev       Nxf2_for       Nxf2_rev       Piwi_for       Piwi_for <t< td=""><td>CAAAGAGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTACTGTGG CGACCAAGAACCGTAGCCTT CTCCGTGACCGATGTGTGG CGACCAGGACCGTTGCTGAAGT ACAGAAACGCCAGCAACAGC CGTTGCAATGACTGGCTGT CGGCGCAGCATGCTGTGGTGGT CGGCGCAGCTGCTGTGGTGGAGT GCGCTTGGAAGCACCATCTGG CGCGCGCAGGTACCGACG CGCGTCGCAGGTACCGACG CGCGTCGCAGGTACCGACG CGCGCGCGCGCTGGGAGTACCG CGCGCGCGCGCGCGCGCG CGCGTCGCAGGCACCCATCTG ATCTGGCGGAGGAGCAGCACCG CGCGCGCAGCACCCATCTG CGCGACGCACCCATCTG CGCGACGCACCCATCTG CGCGACGCCAAAACAT TCGGGACGCCAAAACAT TCGGGAGAGCGCAAAACAT CCGGAGGAGGAAGCACCGAC CGCGTGGCGTATCCGATCG CGCGGCGCTCTGGCGACGCCCA CCGGGGCGTCTGGCGACGCCCCA CCTGGGGCGCACCGACCCGAC</td><td>Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR RP49 qPCR boxB qPCR Fluc(4-300) qPCR Fluc(1277-1512) qPCR PAF1 qPCR RTF1 qPCR</td><td></td></t<>	CAAAGAGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTACTGTGG CGACCAAGAACCGTAGCCTT CTCCGTGACCGATGTGTGG CGACCAGGACCGTTGCTGAAGT ACAGAAACGCCAGCAACAGC CGTTGCAATGACTGGCTGT CGGCGCAGCATGCTGTGGTGGT CGGCGCAGCTGCTGTGGTGGAGT GCGCTTGGAAGCACCATCTGG CGCGCGCAGGTACCGACG CGCGTCGCAGGTACCGACG CGCGTCGCAGGTACCGACG CGCGCGCGCGCTGGGAGTACCG CGCGCGCGCGCGCGCGCG CGCGTCGCAGGCACCCATCTG ATCTGGCGGAGGAGCAGCACCG CGCGCGCAGCACCCATCTG CGCGACGCACCCATCTG CGCGACGCACCCATCTG CGCGACGCCAAAACAT TCGGGACGCCAAAACAT TCGGGAGAGCGCAAAACAT CCGGAGGAGGAAGCACCGAC CGCGTGGCGTATCCGATCG CGCGGCGCTCTGGCGACGCCCA CCGGGGCGTCTGGCGACGCCCCA CCTGGGGCGCACCGACCCGAC	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR RP49 qPCR boxB qPCR Fluc(4-300) qPCR Fluc(1277-1512) qPCR PAF1 qPCR RTF1 qPCR	
Panx_for       Panx_rev       Nxf2_for       Nxf2_rev       Piwi_for       Piwi_for <t< td=""><td>CAAAGAGGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTACTGTGG CGACCAAGAACCGTAGCCTT CTCCGTGACCGATGTGTGG CGACCAGGACCGCTGTGGTGGT CGCGCGACGCCAGTGGCGTGGGCTC CGCGCGCAGCACCACTCTCAGA CGCTGCGACAGCTACCGACG CGCGCGCAGCTCGCTGGGGGACT CGCGCGCAGGTACCGACG CGCGCGCAGGTACCGACG CGCGCGCGCGCGCGCGCG CGCGTCGGCGGCGCGCGC</td><td>Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR RP49 qPCR boxB qPCR Fluc(4-300) qPCR Fluc(1277-1512) qPCR PAF1 qPCR RTF1 qPCR LSD1 qPCR</td><td></td></t<>	CAAAGAGGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTACTGTGG CGACCAAGAACCGTAGCCTT CTCCGTGACCGATGTGTGG CGACCAGGACCGCTGTGGTGGT CGCGCGACGCCAGTGGCGTGGGCTC CGCGCGCAGCACCACTCTCAGA CGCTGCGACAGCTACCGACG CGCGCGCAGCTCGCTGGGGGACT CGCGCGCAGGTACCGACG CGCGCGCAGGTACCGACG CGCGCGCGCGCGCGCGCG CGCGTCGGCGGCGCGCGC	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR RP49 qPCR boxB qPCR Fluc(4-300) qPCR Fluc(1277-1512) qPCR PAF1 qPCR RTF1 qPCR LSD1 qPCR	
Panx_for       Panx_rev       Nxf2_for       Nxf2_rev       Piwi_for       Piwi_for <t< td=""><td>CAAAGAGGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTACTGTGC CGCGACGCACTTGTGTG CGACCAAGAACCGTAGCCTT CTCCGTGACCGATGTGTGAT CTCCGTGACGCAGCACACGC CGTTGCAAGCCAGCACACGC CGTCTGCAAGCACACCCC CGCGCGCAGCACCACTCTCAGA CGCGCGCAGCTGTGGTGGAGT GCGCTTGGAAGCACGACTATCG CGCGCGCAGGTACCGACG CGCGTCGCAGGTACCGACG CGCGCGCGCGCTGGGAGTACCG CGCGCGCGCGCGCGCGCGC CGCGTCGCAGGCACCCCCCC CGCGCGCGCGCGCGCGCGCG CGCGCGCG</td><td>Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR RP49 qPCR boxB qPCR Fluc(4-300) qPCR Fluc(1277-1512) qPCR PAF1 qPCR RTF1 qPCR LSD1 qPCR</td><td></td></t<>	CAAAGAGGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTACTGTGC CGCGACGCACTTGTGTG CGACCAAGAACCGTAGCCTT CTCCGTGACCGATGTGTGAT CTCCGTGACGCAGCACACGC CGTTGCAAGCCAGCACACGC CGTCTGCAAGCACACCCC CGCGCGCAGCACCACTCTCAGA CGCGCGCAGCTGTGGTGGAGT GCGCTTGGAAGCACGACTATCG CGCGCGCAGGTACCGACG CGCGTCGCAGGTACCGACG CGCGCGCGCGCTGGGAGTACCG CGCGCGCGCGCGCGCGCGC CGCGTCGCAGGCACCCCCCC CGCGCGCGCGCGCGCGCGCG CGCGCGCG	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR RP49 qPCR boxB qPCR Fluc(4-300) qPCR Fluc(1277-1512) qPCR PAF1 qPCR RTF1 qPCR LSD1 qPCR	
Panx_for       Panx_rev       Nxf2_for       Nxf2_rev       Piwi_for       Ref_for       Ref1_rev       RP49_for       RP49_rev       14BoxBLuc_ChIPfor       14BoxBLuc_ChIPfor       Fluc_300_ChIPrev       Fluc_1277Rtfor       Fluc_1512RTev       PAF1_rev       LSD1_for       LSD1_rev       PiwesiRNA_for       PiwesiRNA_for	CAAAGAGGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTACTGTGC CGCCACGCCCAGTTGTG CGACCAGAGACCGTAGCCTT CTCCGTGACGCAGCACGC CGTCTGCAGCGCCAGCGCTC CGGCGCAGCAGCACCCCTTGCCG CGGCGCAGCGCTTGGCGCCT CGCGCGCAGCGCTTGGCGCC CGCCTGGCAGCTACGCGCC CGCTTGGAAGCACGATATG CGCGCTGGCGCGCGCGCG CGCGCGCGCGCGCGCGCG	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR RP49 qPCR boxB qPCR Fluc(4-300) qPCR Fluc(1277-1512) qPCR PAF1 qPCR RTF1 qPCR LSD1 qPCR Piwi RNAI-KD	
Panx_for       Panx_rev       Nxt2_for       Nxt2_rev       Pwi_for       Pwi_for       Pwi_for       Pwi_for       rev       mdg1_for       mdg1_rev       roo_for       roo_rev       HetA_for       HetA_rev       Ref1_rev       RP49_for       RP49_rev       14BoxBLuc_ChIPfor       Fluc_300_ChIPrev       Fluc_1277RTfor       Fluc_1512RTrev       PAF1_rev       EXD1_for       LSD1_rev       PMwisRNA_for       PwisRNA_for	CAAAGAGGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTACTGTGC CGCGACGCACGACGCCACCGTAGCCT CTCCGTGACCGTTGCTGATGG CGACCAGAGACCGTAGCCTT CTCCGTGACGCAGCACGC CGTTCCCATGTCCGTTGTGAT CGGCGCAGCAGCACACACC CGTCTGCAATGTACTGCC CGGCGCAGCGCTTGGTGGAT GCGCCTGGAGCGCACGCACCGC CGCGCGCAGCTCTGGAGT GCGCCTGGGAGCACGATATG CGCGCAGCAGCTACGGC CGCGCGCAGCTTGGCAG CGCGCGCAGCTTGGCAGC CGCGCGCAGCTCGCTTG CGCGCGCGCAGCTACGCG CGCGCGCAGCTCGCTTTC AGGCAGCGCAAAACAT TCCGGCGGCGCAGCAGCG CGCGCGCGCAGTAACGG CCGCTGGGCGCAGCGC CGCGCGCAGCGCA	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR RP49 qPCR boxB qPCR Fluc(4-300) qPCR Fluc(4-300) qPCR Fluc(1277-1512) qPCR PAF1 qPCR RTF1 qPCR LSD1 qPCR LSD1 qPCR Piwi RNAi-KD Panx RNAi-KD	
Panx_for       Panx_rev       Nxt2_for       Nxt2_rev       Pwil_for       Pwil_for       Pwil_for       Pwil_for       rev       mdg1_for       mdg1_rev       roo_for       roo_rev       HetA_for       HetA_rev       Ref1_rev       RP49_for       RP49_for       RP49_rev       14BoxBLuc_ChIPfor       Fluc_300_ChIPrev       Fluc_1277RTfor       Fluc_1512RTev       PAF1_for       PAF1_for       RTF1_for       RTF1_for       RTF1_for       RTF1_for       PW-siRNA_rev       PW-siRNA_rev       PW-siRNA_for       PW-siRNA_for	CAAAGAGGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTACTGTGC CCTCGAACGGTTTACCTGTGC CCTCGAACGGTTTACTGTGG CGACCAGAGACCGTAGCCTT CTCCGTGACCGTGTGGTGGT CCGCGCAGCGCCAGCGCCC CGTCTGCAGTGTCGTTGGT CGCGCGCAGCGCCTGGCGCCC CGCGCGCAGCTGCTGGGTGGCG CGCGCGCGCGGCGCCCCCCCCCC	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR Ref1 qPCR boxB qPCR Fluc(4-300) qPCR Fluc(4-300) qPCR Fluc(1277-1512) qPCR PAF1 qPCR LSD1 qPCR LSD1 qPCR Piwi RNAi-KD Panx RNAi-KD Panx RNAi-KD	
Panx_for       Panx_rev       Nxt2_for       Nxt2_rev       Pwil_for       Pwil_for       Pwil_for       Pwil_for       rev       mdg1_for       mdg1_rev       roo_for       roo_for       roo_for       Pany_rev       HetA_rev       Ref1_rev       RP49_for       RP49_rev       14BoxBLuc_ChIPfor       Fluc_300_ChIPrev       Fluc_1512TRrev       PAF1_for       PAF1_for       PAF1_rev       LSD1_for       LSD1_rev       PiwisIRNA_for       PiwisIRNA_for       PiwisIRNA_for       PiwisIRNA_for       Pixd2=RINA_for       Ntd2=RINA_for	CAAAGAGGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTACTGTGC CCTCGAACGGTTTACCTGTGC CCTCGAACGGATTACTGTGG CGACCAGGACCGTAGCCTT CTCCGTGACCGTGGCGTGG	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR Ref1 qPCR DoxB qPCR Fluc(4-300) qPCR Fluc(4-300) qPCR Fluc(1277-1512) qPCR PAF1 qPCR LSD1 qPCR LSD1 qPCR Piwi RNAFKD Panx RNAFKD Panx RNAFKD	
Panx_for       Panx_rev       Nxt2_for       Nxt2_rev       Pwil_for       Poil_field       Pwil_for       Pwil_for       Pet1_rev       PR49_for       Fluc_300_ChiPrev       Fluc_1277RTfor       Fluc_1512RTev       PAF1_rev       LSD1_for       LSD1_rev       PwisiRNA_for       PwisiRNA_for       PwisiRNA_for       Pwix-siRNA_for       Pxd2-siRNA_for       Nxd2-siRNA_for       Pt5-siRNA_rev	CAAAGAGGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTACTGTGC CCTCGAACGGTTTACCTGTGC CCTCGAACGGTTTACTGTGG CGACCAAGAACCGTAGCCTT CTCCGTGACGCTAGCGTAGCCTT CTCCGTGCCGTG	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR Ref1 qPCR PASS qPCR Fluc(4-300) qPCR Fluc(4-300) qPCR Fluc(1277-1512) qPCR PASS qPCR RTF1 qPCR LSD1 qPCR LSD1 qPCR Piwi RNAFKD Panx RNAFKD Panx RNAFKD Panx RNAFKD Panx RNAFKD	
Panx_for       Panx_rev       Nxt2_rev       Nxt2_rev       Pwil_for       Pwil_for       Pwil_for       Pwil_for       rev       rod_line       rod_for       Ref1_rev       RP49_rev       14BoxBLuc_ChIPfor       Fluc_30_ChIPrev       Fluc_4_ChIPfor       Fluc_1272RTrov       PAF1_rev       SRT1_rev       RTF1_for       PAF1_rev       LSD1_rev       PiwisiRNA_for       Pamx-siRNA_for       Pamx-siRNA_for       Pamx-siRNA_for       Pix3eRNA_for       Pix3eRNA_for       Pix3eRNA_for       Pix3eRNA_for	CAAAGAGGAGCCACGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTACTGTGC CCTCGAACGGTTTACCTGTGC CCTCGAACGGTTTACCTGTG CGCCCACGCCCGCTGTGTGG CGACCAGAACCGTAGCCTT CTCCGTGCCGTG	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR Ref1 qPCR PA9 qPCR DoxB qPCR Fluc(4-300) qPCR Fluc(4-300) qPCR Fluc(1277-1512) qPCR PAF1 qPCR LSD1 qPCR LSD1 qPCR LSD1 qPCR Piwi RNAI-KD Panx RNAI-KD Panx RNAI-KD P15 RNAI-KD P15 RNAI-KD HP1a RNAI-KD	
Panx_for       Panx_rev       Nxt2_for       Nxt2_for       Nxt2_rev       Piwi_rev       mdg1_for       mdg1_rev       roo_for       roo_rev       HetA_for       PAst_loc       Fluc_300_ChIPrev       Fluc_4_ChIPfor       Fluc_1277Rfor       Puto_1512BTTrev       PAF1_for       RTF1_rev       LSD1_for       LSD1_for       Parx-siRNA_for       Parx-siRNA_for       Parx-siRNA_for       Phi-siRNA_rev       Pf-siRNA_for       Phi-siRNA_rev	CAAAGAGAGCCACCGGAAT CTGCGATGGCTTACTCGTGC CCTCGAACGGTTTACTCACTCCA AGATCCTGCACCGGTTGGTG CGCCCAGCACCACTTGTG CGCCCAGCACCACTGTGTG CGCCCGAGACCGCCGTGGTGGTG CGCCTGGAACGCCAGCAACAGC CGTTCGCAATGTACTGGTGT CGCGCGGAGACCACTCTCCG CGCCGCGACGTGATGGTGGTG CGCGCTGGAAGCCACTTCTG CGCCGCGAGACCCACTTCTG GCGCTGGAAGCCCATCTCG CGCGCGGAGCGCTTGGTAGT CGCGCGCGAGTGGTTGGTGAG CCGCTTGAAGGCCACTCTG GCGCCGGCAGTGGTTGGTGAG CCGCTCGAAGGCCGACTTCG CGCGCGGCAGCGCTGGTTGG CCGCAGCGCCGACTACTG CCGCCGGAGACGCCACTCTG CGCGCGGAGCGCTCGGTTTCC CGCGCGGAGCGCCACACACG CCGCTCAAGGCCCACTCTG CCGCAGGCCAGCGCCACG CCGCCGGAGGCGCCACACCG CCGCCGGAGGCCCACCCG CGCGCGGCGCGCGC	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR RP49 qPCR boxB qPCR Fluc(4-300) qPCR Fluc(4-300) qPCR Fluc(1277-1512) qPCR PAF1 qPCR LSD1 qPCR LSD1 qPCR Panx RNAi-KD Panx RNAi-KD P15 RNAi-KD P15 RNAi-KD H1 RNAi-KD	
Panx_for Panx_rev Nxf2_for Nxf2_for Nxf2_for Nxf2_rev Piwi_for Piwi_rev mdg1_for mdg1_rev roo_for too_for too_for too_for NetA_for HetA_rev Ref1_for Ref1_rev RP49_rev HetA_for HetA_for HetA_rev Ref1_rev RP49_rev ChIPror Fluc_30_ChIPror Fluc_30_ChIPror Fluc_30_ChIPror Fluc_30_ChIPror Fluc_30_ChIPror Fluc_310_ChIPror Fluc_310_ChIPror Fluc_310_ChIPror Fluc_310_ChIPror Fluc_310_ChIPror Fluc_310_ChIPror PAF1_for PAF1_for PAF1_for PAF1_for PAF1_for Panx-siFNA_for Panx-siFNA_for Panx-siFNA_for P15-siFNA_rev HP1a-siFNA_for HP1a-siFNA_for HP1a-siFNA_for HP1a-siFNA_for HP1a-siFNA_for H1-siFNA_for H1-siFNA_for	CAAAGAGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTACTGTGC CCTCGAACGGTTTACCTGTGC CGCCCAGCACCCAGTTGTG CGACCAAGAACGCACGACGC CGTCGCACGACCCAGTGGCGT CGCGCGGAGACGCCAGCAACAGC CGTTGCACTGTCCGTTGTGAT CGCGCGGAGACCGACTTCCC CGCCGCGAGACCCATCTCCG CGCCGCGAGACCCACTTCCGA CGCCCGCGCGGCGCTCGGAGG CCGCTTGGAAGCACGACTGC CGCCGCGGCGCGCGCG CCGCTTGAAGCACGACTG CGCGCGGCGCG	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR Ref1 qPCR RP49 qPCR boxB qPCR Fluc(1277-1512) qPCR PAF1 qPCR LSD1 qPCR LSD1 qPCR Panx RNAI-KD Panx RNAI-KD P15 RNAI-KD P15 RNAI-KD HP1a RNAI-KD H1 RNAI-KD Mael RNAI-KD	
Panx_for Panx_rev Nxf2_for Nxf2_for Nxf2_for Nxf2_rev Piwi_for Piwi_rev mdg1_for mdg1_rev roo_for no_rev HetA_for HetA_for HetA_for HetA_rev Ref1_rev RP49_rev RP49_rev RP49_rev Fluc_4_ChIPfor Fluc_300_ChIPfor Fluc_300_ChIPfor Fluc_300_ChIPfor Fluc_300_ChIPfor Fluc_1512RTrev PAF1_for PAF1_for RTF1_rev LSD1_for LSD1_rev PiwisiRNA_for Panx-siRNA_for Panx-siRNA_for P15-siRNA_for HD13-siRNA_for HD1	CAAAGAGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTACTGTGC CCTCGAACGGTTTACCTGTGC CGCCCAAGAACCGCTAGCCTT CGCACCACGACCGCTGTGTGG CGCCCCAGTGTCCGTGTGGTG CGCCCCAGTGTCCGTTGGAT CCGCGCGAGACCGCCTTCGA CGCCCCCCCGTGTGGTGGTG CGCCCGCGCGGCGTGGTTGGT	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR RP49 qPCR boxB qPCR Fluc(4-300) qPCR Fluc(1277-1512) qPCR PAF1 qPCR LSD1 qPCR LSD1 qPCR Panx RNAI-KD Panx RNAI-KD P15 RNAI-KD P15 RNAI-KD H11 RNAI-KD Mael RNAI-KD Gisf1 RNAI-KD	
Panx_for Panx_rev Nxf2_for Nxf2_for Nxf2_for Nxf2_rev Piwi_for Piwi_rev mdg1_for mdg1_rev roo_for too_for too_for too_for tev HetA_rev Ref1_rev Ref1_for Ref1_rev Ref3_for RP49_rev HetA_for HetA_rev Ref1_rev RP49_rev HetA_for HetA_rev Ref3_rev RP49_rev HetA_for HetA_rev RP49_rev HetA_for HetA_for HetA_rev HetA_for HetA_for HetA_for Ref3_rev Ref3_rev HetA_for Ref3_rev Ref3_rev Ref3_rev HetA_for Ref3_rev Ref	CAAAGAGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTACTGTGC CCTCGAACGGTTTACCTGTGC CGCCCAGCACCCAGTTGTG CGACCAAGAACGCACAGCGTTG CGCCCAGCACCAGTTGTGT CGCGCGAGAACGCCAGCAACAGC CGTTGCCATGTCCGTTGTGAT CGCGCGAGACCCATCTTCCC CGCGCGAGACCCATCTTCCG CGCGCGAGACCCATCTTCAGA CGCCTTGCAAGTACTGCGC CGCGCGGAGCAGCAGCAGCG CCGCTTGGAAGCACGATTG GCGCTTGGAAGCACGATTG GCGCAGCACGCATCTGG CGCGCGGCAGCAGCAGCG CCGCTCAAGGTACCGCGC CGCCTCAAGGTACCGCGCG CGCGCGGCAGCATCGGTTTGC GCGAAGCCCACTTTC AGGGAAGCCACTTTG CGCGAGGACGCCATCAACGC CCGCTTGGAAGGCCCACAACACG CCGCAGGCAGCACGCGCCA ACTGGCGCGAGGAGCGCCA ACTGGCGCGAGGAGCGCCA CGCGAGGCCACGACGCCGA CGCGAGGCGATTCCGCTTT CCGGAGGGCGCACACCG GGCGAGGCGA	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR Ref1 qPCR RP49 qPCR boxB qPCR Fluc(1277-1512) qPCR PAF1 qPCR RTF1 qPCR LSD1 qPCR LSD1 qPCR Panx RNAi-KD Panx RNAi-KD P15 RNAi-KD P15 RNAi-KD H11 RNAi-KD H11 RNAi-KD Gltsf1 RNAi-KD Gltsf1 RNAi-KD	
Panx_for       Panx_rev       Nxf2_for       Nxf2_for       Nxf2_rev       Piwi_for       Piwi_for       Piwi_rev       mdg1_for       mdg1_rev       roo_for       roo_rev       HetA_rev       Ref1_rev       RP49_rev       14BoxBLuc_ChIPfor       Fluc_4_ChIPfor       Fluc_300_ChIPrev       Put_1512RTrev       PAF1_for       RTF1_rev       LSD1_for       LSD1_for       LSD1_for       LSD1_for       Parx-siRNA_for       Piwi-siRNA_rev       P15-siRNA_rev       P15-siRNA_rev       P15-siRNA_for	CAAAGAGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTACTGTGC CCTCGAACGGTTTACCTGTGC CGCCCAGCACCCAGTTGTG CGCCCAGCACCCAGTTGTG CGCCCAGCACCCAGTTGTG CGCCCAGCACGCCGTGTGGTG CGCTGGCAGACGCCGTGTGGTG CGCGCGGAGCCCATCTTCGC CGCGCGGAGCCCATCTTCGA CGCCCCGCTGAACGCCT CGGCGGCAGCCCATCTTCGA CGCCCCCGCTGAAGCACGACTG CGCGCGGCAGCCGCTCTGGAAGCG CCCCTTGAAGGACGACTATG CGCGCGGCGCAGTACGG CGCGCGGCGCG	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR Ref1 qPCR Ref1 qPCR RP49 qPCR boxB qPCR Fluc(1277-1512) qPCR PAF1 qPCR RTF1 qPCR LSD1 qPCR PAF1 qPCR LSD1 qPCR Piwi RNAi-KD Panx RNAi-KD Pis RNAi-KD P15 RNAi-KD H11 RNAi-KD H11 RNAi-KD Mael RNAi-KD GIsf1 RNAi-KD Egg RNAi-KD	
Panx_for       Panx_rev       Nxf2_for       Nxf2_for       Nxf2_rev       Piwi_for       Piwi_for       Piwi_rev       mdg1_for       mdg1_for       mdg1_for       mdg1_for       mdg1_for       mdg1_for       mdg1_for       mdg1_for       Reff_for       Reff_rev       Reff_rev       RP49_rev       14BoxBLuc_ChIPfor       Fluc_300_ChIPrev       Fluc_1277Rfor       Fluc_1277Rfor       PAF1_for       RTF1_rev       LSD1_for       LSD1_for       LSD1_for       LSD1_for       LSD1_rev       PiwisiRNA_for       Pamx-siRNA_for       Pamx-siRNA_for       Pamx-siRNA_for       Pamx-siRNA_for       Pls-siRNA_rev       Pls-siRNA_for       Mael-siRNA_rev       Pls-siRNA_for       Seg_siRNA_for       Seg_siRNA_rev       Seg_siRNA_rev	CAAAGAGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTACTGTGC CCTCGAACGGTTTACTGTGC CGCCAGACCCCATTGTG CGCCCAGCACCCAGTGGCT CGCCGCACCCCGTTGTGGT CGCCGCAGCACGCCGCT CGCCCCGCGTGTCGTGGTGAT CGCCGCGGACCCCGTTGGGTGGC CGCCTCGCAGACACGCC CGCCCGCGTCGCGGTGGGGGG CGCCTCGAGGCGCCGCGC CGCCTCGAGGGCCCGCGC CGCCCCGCGTGACGCGC CGCCCCGCGTGACGCGC CGCCCCGCGTGACGCGC CGCCCCCGCGTGACGCG CCGCCCCGCGTGACGCG CCGCACGCGCTCGGTTTGC GCCGACGCCGCGCGC CGCCCCGCGGCGCCG CGCCCCGCGGCGCCG CGCCCGCGGCG	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR Ref1 qPCR RP49 qPCR boxB qPCR Fluc(4-300) qPCR Fluc(1277-1512) qPCR PAF1 qPCR RTF1 qPCR LSD1 qPCR PAF1 qPCR LSD1 qPCR Piwi RNAi-KD Panx RNAi-KD P1 sRNAi-KD P1 sRNAi-KD H1 sRNAi-KD H1 sRNAi-KD H1 sRNAi-KD G1sf1 RNAi-KD G1sf1 RNAi-KD G1sf1 RNAi-KD Ref1 RAN-KD Ref1 RAN-KD	
Panx_for       Panx_rev       Nxf2_for       Nxf2_for       Nxf2_rev       Piwi_for       Piwi_for       Piwi_rev       mdg1_for       mdg1_for       mdg1_rev       roo_for       roo_rev       HetA_rev       Reff_for       Reff_good_ChIPrev       14BoxBLuc_ChIPfor       Fluc_4ChIPfor       Fluc_300_ChIPrev       Lic_127RTsfor       Put_1512RTrev       PAF1_for       RTF1_rev       LSD1_rev       Parx-siRNA_for       Parx-siRNA_for       Parx-siRNA_for       Parx-siRNA_for       Plix-siRNA_rev       p15-siRNA_rev       p15-siRNA_rev       mael-siRNA_rev       Ref1-siRNA_rev       Egg-siRNA_for       Reg_siRNA_rev       Ref1-siRNA_rev       Egg-siRNA_rev       Ref1-siRNA_rev       Egg-siRNA_rev       Ref1-siRNA_rev       Egg-siRNA_rev	CAAAGAGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTACTGTGC CCTCGAACGGTTTACTGTGTG CGACCAAGAACCGTAGCCTT CTCCGTGCCCTGTGTGGTGAT CTCCGTGCCATGTCGTGTGAT CTCCGTGCCATGTCCGTTGTGAT CGCGCACGCATGTCCGTTGGAT CGCGCGGAACCCAGCTTCGC CGCGCGGACCCAGTACTGCTC CGCGCAGCGGTTGGTGGGAG CCGCTTGGAAGCACAGCATATG CGCGCAGCGCTTGGAAGCACGAC CCGCTTGGAAGCACGACTATG CCGACGCCAGCAGTCGGTTGGCG CCGCAGCGCAG	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR Ref1 qPCR Ref1 qPCR Ref1 qPCR Fluc(4-300) qPCR Fluc(4-300) qPCR Fluc(1277-1512) qPCR PAF1 qPCR RTF1 qPCR LSD1 qPCR PAF1 qPCR LSD1 qPCR Piwi RNAFKD Panx RNAFKD Panx RNAFKD Panx RNAFKD Pi RNAFKD H1 a RNAFKD H1 a RNAFKD H1 a RNAFKD Gtsf1 RNAFKD Egg RNAFKD Ref1 RAFKD Ref1 RAFKD	
Panx_for       Panx_rev       Nxf2_for       Nxf2_for       Nxf2_rev       Piwi_for       Ref1_rev       RP49_rev       14BoxBLuc_ChIPfor       Fluc_300_ChIPfer       Fluc_1512RTrev       PAF1_for       PIF1_rev       LSD1_for       LSD1_for       LSD1_for       LSD1_for       LSD1_for       LSD1_rev       PI*-siRNA_for       PI*-siRNA_for       PI*-siRNA_for       PI*-siRNA_for       PI*-siRNA_for       PI*-siRNA_for       PI*-siRNA_rev       Egg-siRNA_for       Ref1-siRNA_rev       Ref1-siRNA_rev       Ref1-siRNA_rev       Ref1-siRNA_rev       Ref1-siRNA_rev	CAAAGAGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTACTGTGC CCTCGAACGGTTTACTGTGG CGACCAAGAACCGTAGCCTT CTCCGTGTGCTGTGTGGTGAT CTCCCATGTCCGTTGTGAT CTCCCATGTCCGTTGTGAT CGCGCACGACTGTCCGTGTGAT CGCGCGCAGTCACTACTTCTCC CGCGCGGACCCATCTTCAGA CGCCGCAGTGCTTTGGTGAT CGCGCAGCGCTTGGAAGCACGACT CGCGCGCAGTCACTACTTCTG CGCGCAGCGCA	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR Ref1 qPCR Ref1 qPCR Ref1 qPCR Fluc(4-300) qPCR Fluc(4-300) qPCR Fluc(1277-1512) qPCR PAF1 qPCR LSD1 qPCR PAF1 qPCR LSD1 qPCR Piwi RNAI-KD Panx RNAI-KD Panx RNAI-KD P1 a RNAI-KD HP1 a RNAI-KD HP1 a RNAI-KD HP1 a RNAI-KD Egg RNAI-KD Ref1 RAI-KD Ref1 RNAI-KD Egg RNAI-KD Ref1 RAI-KD Ref1 RNAI-KD Ref1 RNAI-KD Ref1 RNAI-KD Ref1 RNAI-KD Ref1 RNAI-KD Ref1 RNAI-KD Ref1 RNAI-KD Ref1 RNAI-KD Ref1 RNAI-KD	
Panx_for       Panx_rev       Nxf2_for       Nxf2_for       Nxf2_rev       Piwi_for       Ref1_rev       RP49_rev       14BoxBLuc_ChIProv       14BoxBLuc_ChIProv       Fluc_300_ChIPrev       Fluc_300_ChIPrev       PAF1_rev       RTF1_for       RTF1_rev       LSD1_for       LSD1_for       LSD1_for       Panx=RINA_rev       Panx=RINA_rev       Panx=RINA_rev       Panx=RINA_for       Phi-siRNA_rev       Pans=RINA_for       Phi-siRNA_rev       RG1+siRNA_rev       RG1+siRNA_rev       RG1+siRNA_rev       RG1+siRNA_rev       RG1+siRNA_rev       RG1+siRNA_rev       RG1+siRNA_rev  <	CAAAGAGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTACTCACTCA AGATCCTGCACCCAGTTGTG CGACCAAGAACGGTAGCCTT CTGCGATGGCTTGCGTAGT CTGCGATGTCCGTTGTGGT CGCGCAGCAGCAACAGC CGTTGCCATGTCCGTTGTGAT CGCGCGGCAGTCACTACTTCTCC CGCGGCAGTCACTACTTCTCC CGCGCGGACCCATCTTCAGA CGCGCGCAGTCACTACTTCTCC CGCGCGGCAGTCACTACTTCTG CGCGCAGGCAGTCACTGCGC CGCGCGGCAGTCACTACTGCG CGCGCGCGCAGTAACGC CGCGTCGCAGGTACCGCGC CGCGCGCGCAGTAACGC CGCGCGCGCAGTAACGC CGCGCAGGCAGTCACGGCG CGCGCAGGCAGTCAGGTCGGGGCG CGCGCAGGCGCAAAACAT TCCGGCGCGCAGTAACGC CGCGAGGCGCAAAACAT TCCGGAGGCGCAAAACAT TCCGGAGGAGGCGCAAACCA CGCGGAGGCGCAAAACAT CCGAGGGCGCAAAACAT TCCAGGCCGCAGTAACGCGC CGCGCGGCGCTATCCACGACG CGCGCAGGCGCAAAACCA CGCGGCGCGCAAAACGC CGCGGAGGCGCAAAACCA CCGCGCGCG	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR Ref1 qPCR Ref1 qPCR RP49 qPCR boxB qPCR Fluc(4-300) qPCR Fluc(4-300) qPCR Fluc(4-300) qPCR Fluc(1277-1512) qPCR PAF1 qPCR RTF1 qPCR LSD1 qPCR Piwi RNAi-KD Panx RNAi-KD Panx RNAi-KD Panx RNAi-KD Pi RNAi-KD Pi RNAi-KD HP1a RNAi-KD H1 RNAi-KD H1 RNAi-KD G1sf1 RNAi-KD G1sf1 RNAi-KD Egg RNAi-KD Ref1 RANI-KD Egg RNAi-KD EgfP RNAi-KD Luc RNAi-KD Luc RNAi-KD	
Panx_for       Panx_rev       Nxf2_for       Nxf2_for       Nxf2_rev       Piwi_for       Ref1_rev       RP49_for       PP49_rev       14BoxBLuc_ChIProv       Fluc_300_ChIPrev       Puk_1for       Fluc_4_ChIProv       PAF1_for       RTF1_for       RTF1_rev       LSD1_for       LSD1_for       LSD1_for       Pamx=RINA_for       Piwi-SIRNA_rev       Pamx=RINA_for       Pis-SIRNA_rev       Pamx=SIRNA_for       P15-SIRNA_rev       Sign=SIRNA_for       P15-SIRNA_rev       Sign=SIRNA_rev       Sign=SIRNA_rev       Sign=SIRNA_rev       Sign=SIRNA_rev       Sign=SIRNA_rev	CAAAGAGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CCTCGAACGGTTTACTCACTCA AGATCCTGCACCCAGTTGTG CGACCAAGAACGGTAGCCTT CTCCGTGCCGTG	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR Ref1 qPCR Ref1 qPCR Ref1 qPCR RFU qPCR Fluc(4-300) qPCR Fluc(4-300) qPCR Fluc(1277-1512) qPCR PAF1 qPCR RTF1 qPCR LSD1 qPCR Piwi RNAI-KD Panx RNAI-KD Panx RNAI-KD Pi RNAI-KD Pi RNAI-KD H1 RNAI-KD H1 RNAI-KD G1sf1 RNAI-KD G1sf1 RNAI-KD Egg RNAI-KD Egg RNAI-KD EgfP RNAI-KD EgfP RNAI-KD Luc RNAI-KD	
Panx_for       Panx_rev       Nxf2_for       Nxf2_for       Nxf2_rev       Piwi_for       Piwi_giNA_for       Piwi_siRNA_for       Piwi_siRNA_for       Piwi_siRNA_for       Piwi_siRNA_for       Pisi_siRNA_rev       Panx_siRNA_rev       Pisi_siRNA_rev       Pisi_siRNA_rev       Pisi_siRNA_rev       Pisi_siRNA_rev       Pisi_siRNA_rev       Pisi_siRNA_rev       Egg-siRNA_rev       Egg-siRNA_rev       Egg-siRNA_rev       Egg-siRNA_rev       PA1_siRNA_rev       PA1_siRNA_rev       PA1_siRNA_rev       PA1_siRNA_rev       PA1_siRNA_rev       PA1_siRNA_rev       PA1_si	CAAAGAGGAGCCACCGGAAT CTGCGATGGCTTAACTGTGC CTGCGACGGTTTACTGTGC CCTCGAACGGTTTACCTGAC GGACCACGACCGTTGTG CGACCACGACCGTTGTG CGACCAGACCCGTTGTG CGCGCACGACCGTGTGGTGAT CTCCCATGTCCGTTGTGAT CGCGCGCACTACTTACTCCC CGCGCGGACCCATGTCGTGGTG CGCGCGGAGTCACTACTTCTCC CGCGCGGAGTCCGTTTGGTGAGT GCGCTTGCAGTACCGCGCG CGCGTGCAGGTACCGACG CGCGTCGAGGACCGACTATG GCGCGCGGCAGTCACTGCGT CGCGCGGCGGCGGCGACG CCGCTCAAGGGACCGACTATG CGCGCAGCGCGGTCGAGGCG CCGCTCAAGGGACCGCG ATCTCGCCGCGGCGTCGAGTGCGT CCGCGAGGCGCGAGTAACGC CGCGCAGCGCGCGAGTAACGC CGCGCAGGCGCGCGAGTACGG CGCGAGGGCGCCAAACGC CGCGGAGGCGCAAAACAT TCCGGAGGAGGCGCAAACCAC GGCGGAGGCGCAAAACAT CCGGAGGGCGCCAAACCAC GGCGGAGGTATCCACCGATCT CCGATGCGCTGCGC	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR Ref1 qPCR Ref1 qPCR Ref1 qPCR RF49 qPCR boxB qPCR Fluc(4-300) qPCR Fluc(1277-1512) qPCR Fluc(1277-1512) qPCR PAF1 qPCR RTF1 qPCR LSD1 qPCR Piwi RNAI-KD Panx RNAI-KD Panx RNAI-KD Panx RNAI-KD P15 RNAI-KD H1 RNAI-KD H1 RNAI-KD Mael RNAI-KD Gtsf1 RNAI-KD Gtsf1 RNAI-KD Egg RNAI-KD Egg RNAI-KD EgfP RNAI-KD EgfP RNAI-KD Luc RNAI-KD PAF1 RNAI-KD Ref1 RAI-KD EgfP RNAI-KD EgfP RNAI-KD FIF1 RNAI-KD Ref1 RAI-KD Ref1 RNAI-KD Ref1 RNAI-KD	
Panx_for       Panx_rev       Nxf2_for       Nxf2_for       Nxf2_for       Nxf2_for       Piwi_for       Pimi_for       Pimi_for <t< td=""><td>CAAAGAGGAGCCACCGGAAT CTGCGATGGCTTACTCGTGC CTGCGACGGTTTACTCACTCCA AGATCCTGCACCCAGTTGTG CGCCACGACCCAGTTGTG CGACCAAGAACCGTAGCCTT CTCCGTGTCCATGTCGTGAGT CGCGCGCACGACTGTCGTGGTG CGCGCGCAGTAGTACTGCCC CGCGCGCAGTCGTTGGTGAT CGCGCGCAGTCACTACTTCTCC CGCGCGGACCCATCTCAGA CGCCGCAGCAGTCTGGTGAGT GCGCTTGGCAGGACCGACTTTG GCGCGCGGACCCATCTCAGA CGCCGCAGCAGTTTGGTGAGT CGCGCGCAGCAGTTCTGCAG CGCGCGCAGCAGTTTGGTGAGT CGCGCGCGGCGGCGCGACG CCGCTTCAAGGACCGACTGTG CGCGCGCGGCGGCGCGAGCG CCGCTTCAAGGGACCGCG ATCTCGCCGCAGTAACGC CAGCCAGCAGTCGGTTGC CGCGAGGCGCCAAACGC CGCGTCGAGGCGCCAACGC GCCGAGGCGCCAAACGC CGCGTGGGCGTCGGGGCGCCA CTGGGGGCGCAGCAGCGC GCGGAGGCAAGCCGCAACC GGCGGAGGCAAGCGCGAAGCC GCGGCGGCGCGCGAGTT CCAATCTCGCCTGGCGTTG CCGGCGGCGTCTGGATTACT CCACGGCCGCAGTTT CCCAAGCCGCGGGGGCC CCCCLGCCGCGCGCGC CCCCAGGCGUGAAGGUGH CCCAAGCCGCGCAACGGG CCGCCAAGAUGGACCCAUH AUGQUGACUUGGAUCUCGH CCGAAGGCCCAAGAUCH GAAAUCACAGUGCACCAUH AUGQUGGCUUGGAUCUUCH CGCAAGGCACCACGCGCG GCGCCAACAATGGACC CGGCGGCGCAAGAUCH GAAAUCACAGUGCACCAUH AUCUUGGACCCCAUGGCH CCGAAGGCCCAAGAUCH GAAAUCACAGUGCACCAUH AUCUUGGACGCUCGGCH CGCAAGCCCAAGAUCH GAAAUCACAGUGCACCAUH AUCUUGGACGCUCGGCH CGCAAGCACCAGGACTH GGCGACCCAAGAUCH CGAAGUCGCUCGCUUUCH CGCACGCCAACAATTGGAH UCCAAGGCUUCCAUCUUCH CGCACGCCACCAUCH GGCAAGAUGGACCCAUGH AUCUUGGACCCCAGGAUH AUCUUCGAGCUUCGAGCH GGCAAGAUGGCCCAGGAUH AUCUUCGAGCUUCGAGCH CGCAAGCUCGCUUCCAUCUUCH CGCAAGCUCGCUUCCAUCUUCH CGCAAGCUCGCUUCCAUCUUCH CGCAAGCUCGCUUCCAUCUUCH CGCAAGCUCGCUUCCAUCUUCH CGCACGCUCAACGCUUCCAUCUUCH CGCACGCUCAACGCUUCCAUCUUCH CGCACGCUCAACGCUUCCAUCUUCH CGCACGCUCAACGCUUCCAUCUUCH CGCACGCUCAACGCUUCCAUCUUCH CGCAAGAUCGCUUCCAUCUUCH CGCACGCUCAAGCUUCCAUCUUCH CGCAAGCUCGCUUCCAUCUUCH CGCACGCUUCCAAGCGUUGCCH CGCAAGCUCGCUUCCAUCUUCCH CGCAGGUCACCCUUCCAUCUUCCH CGCAGCUUCCAAGCGUUGCCH CGCACGCUUCCAAGCGUUGCCH CGCAGCUUCCAAGCGUUGCCH CGCAGCUUCCAAGCGUUGCCH CGCAGGCUUCCAAGCGUUGCCH CGCAGGGUCACCUUCCAUCUUCCH CGCAGGCUUCCAAGCGUUGCCH CGCAGGUCACCUUCCAUCUUCCH CGCAGGGUCACCUUCCAUCUUCCH CGCAGGUCACCUUCCAUCUUCCH CGCAGCUUCCAAGCGUUGCCH CGCAGCUUCCAAGCUUCCAUCUUCCH CGCAGCUUCCAAGCUUUCCH CGCAGCUUCCAAGCUUCCAUCUUCCH CGCAGGUUCCAAGCUUCCAUCUUCCH</td><td>Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR Ref1 qPCR Ref1 qPCR Ref1 qPCR RF49 qPCR boxB qPCR Fluc(4-300) qPCR Fluc(1277-1512) qPCR PAF1 qPCR RTF1 qPCR LSD1 qPCR Piwi RNAI-KD Panx RNAI-KD Panx RNAI-KD Pi RNAI-KD Pi RNAI-KD Pi RNAI-KD HP1 a RNAI-KD G1sf1 RNAI-KD G1sf1 RNAI-KD EGFP RNAI-KD EGFP RNAI-KD EGFP RNAI-KD Ref1 RANI-KD EGFP RNAI-KD Ref1 RANI-KD Ref1 RANI-KD Ref1 RANI-KD Ref1 RANI-KD EGFP RNAI-KD Ref1 RANI-KD Ref1 RANI-KD RANI-RANI-KD RANI-RANI-KD RANI-RANI-KD RANI-RANI-KD RANI-RANI-RANI-RANI-RANI-RANI-RANI-RANI-</td><td></td></t<>	CAAAGAGGAGCCACCGGAAT CTGCGATGGCTTACTCGTGC CTGCGACGGTTTACTCACTCCA AGATCCTGCACCCAGTTGTG CGCCACGACCCAGTTGTG CGACCAAGAACCGTAGCCTT CTCCGTGTCCATGTCGTGAGT CGCGCGCACGACTGTCGTGGTG CGCGCGCAGTAGTACTGCCC CGCGCGCAGTCGTTGGTGAT CGCGCGCAGTCACTACTTCTCC CGCGCGGACCCATCTCAGA CGCCGCAGCAGTCTGGTGAGT GCGCTTGGCAGGACCGACTTTG GCGCGCGGACCCATCTCAGA CGCCGCAGCAGTTTGGTGAGT CGCGCGCAGCAGTTCTGCAG CGCGCGCAGCAGTTTGGTGAGT CGCGCGCGGCGGCGCGACG CCGCTTCAAGGACCGACTGTG CGCGCGCGGCGGCGCGAGCG CCGCTTCAAGGGACCGCG ATCTCGCCGCAGTAACGC CAGCCAGCAGTCGGTTGC CGCGAGGCGCCAAACGC CGCGTCGAGGCGCCAACGC GCCGAGGCGCCAAACGC CGCGTGGGCGTCGGGGCGCCA CTGGGGGCGCAGCAGCGC GCGGAGGCAAGCCGCAACC GGCGGAGGCAAGCGCGAAGCC GCGGCGGCGCGCGAGTT CCAATCTCGCCTGGCGTTG CCGGCGGCGTCTGGATTACT CCACGGCCGCAGTTT CCCAAGCCGCGGGGGCC CCCCLGCCGCGCGCGC CCCCAGGCGUGAAGGUGH CCCAAGCCGCGCAACGGG CCGCCAAGAUGGACCCAUH AUGQUGACUUGGAUCUCGH CCGAAGGCCCAAGAUCH GAAAUCACAGUGCACCAUH AUGQUGGCUUGGAUCUUCH CGCAAGGCACCACGCGCG GCGCCAACAATGGACC CGGCGGCGCAAGAUCH GAAAUCACAGUGCACCAUH AUCUUGGACCCCAUGGCH CCGAAGGCCCAAGAUCH GAAAUCACAGUGCACCAUH AUCUUGGACGCUCGGCH CGCAAGCCCAAGAUCH GAAAUCACAGUGCACCAUH AUCUUGGACGCUCGGCH CGCAAGCACCAGGACTH GGCGACCCAAGAUCH CGAAGUCGCUCGCUUUCH CGCACGCCAACAATTGGAH UCCAAGGCUUCCAUCUUCH CGCACGCCACCAUCH GGCAAGAUGGACCCAUGH AUCUUGGACCCCAGGAUH AUCUUCGAGCUUCGAGCH GGCAAGAUGGCCCAGGAUH AUCUUCGAGCUUCGAGCH CGCAAGCUCGCUUCCAUCUUCH CGCAAGCUCGCUUCCAUCUUCH CGCAAGCUCGCUUCCAUCUUCH CGCAAGCUCGCUUCCAUCUUCH CGCAAGCUCGCUUCCAUCUUCH CGCACGCUCAACGCUUCCAUCUUCH CGCACGCUCAACGCUUCCAUCUUCH CGCACGCUCAACGCUUCCAUCUUCH CGCACGCUCAACGCUUCCAUCUUCH CGCACGCUCAACGCUUCCAUCUUCH CGCAAGAUCGCUUCCAUCUUCH CGCACGCUCAAGCUUCCAUCUUCH CGCAAGCUCGCUUCCAUCUUCH CGCACGCUUCCAAGCGUUGCCH CGCAAGCUCGCUUCCAUCUUCCH CGCAGGUCACCCUUCCAUCUUCCH CGCAGCUUCCAAGCGUUGCCH CGCACGCUUCCAAGCGUUGCCH CGCAGCUUCCAAGCGUUGCCH CGCAGCUUCCAAGCGUUGCCH CGCAGGCUUCCAAGCGUUGCCH CGCAGGGUCACCUUCCAUCUUCCH CGCAGGCUUCCAAGCGUUGCCH CGCAGGUCACCUUCCAUCUUCCH CGCAGGGUCACCUUCCAUCUUCCH CGCAGGUCACCUUCCAUCUUCCH CGCAGCUUCCAAGCGUUGCCH CGCAGCUUCCAAGCUUCCAUCUUCCH CGCAGCUUCCAAGCUUUCCH CGCAGCUUCCAAGCUUCCAUCUUCCH CGCAGGUUCCAAGCUUCCAUCUUCCH	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR roo qPCR HetA qPCR Ref1 qPCR Ref1 qPCR Ref1 qPCR Ref1 qPCR RF49 qPCR boxB qPCR Fluc(4-300) qPCR Fluc(1277-1512) qPCR 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Panx_for Panx_rev Nxf2_for Nxf2_for Nxf2_for Nxf2_rev Piwi_for Piwi_rev mdg1_for mdg1_rev roo_for foo_rev HetA_for HetA_rev Ref1_rev Ref1_rev RP49_rev HetA_rev RP49_rev HetA_rev Paf9_rev HetA_rev Paf9_rev HetA_rev Paf9_rev HetA_rev RP49_rev Paf9_rev HetA_rev RP49_rev HetA_rev RP49_rev HetA_rev RP49_rev HetA_rev RP49_rev HetA_rev Paf1_rev Paf1_rev RTF1_for RTF1_for RTF1_for RTF1_for RTF1_for RTF1_rev LSD1_for LSD1_for LSD1_for LSD1_for LSD1_for Panx-siRNA_rev Panx-siRNA_for Panx-siRNA_for Panx-siRNA_for HP1a-siRNA_for HP1a-siRNA_for HP1a-siRNA_for HP1a-siRNA_for HP1a-siRNA_for Ref1-siR	CAAAGAGGAGCCACCGGAAT CTGCGATGGCTTACTCACTCCA AGATCCTGCACCCGTTGTGG CGCGCACCACGTTGTG GGACCACCAGTGTGGTGAT CTCCGTGTGCCGTGTGGTGAT CTCCCATGTCCGTTGTGAT CGCGCGCAGTGTTGGTGAT CGCGCGCAGTGTTGGTGAT CGCGCGCAGCACTCTCAGA CGCGCGCAGCGTTTGGTGAGT GCGCTTGGCAGTACGGCG CGCGCGCAGCGTTTGGTGAGT GCGCGCGCAGCGTTTGGTGAGT GCGCGCGCAGCGTTTGGTGAGT CGCGCGCAGCGGTCGCGACG CCGCTTCAAGGACCGATTGTG ATCTCGCCGCGGTGCGAGG CCGCTTCAAGGACCGATTGTG ATCTCGCCGCGGTGCGAGG CCGCTTCAAGGACCGACG CCGCTTCAAGGACCGACG CCGCTTCAAGGACCGACG CCGCTTCAAGGACCGACG CCGCTTCAAGGACCGCG CCGCTTCAAGGACCGACG CCGCTTCAGGCGCCACG CCGCTTCAGGCGCCGACG CCGCTTCAGGCGCCACG CCGCTTCAGGCGCCACG CCGCTTCACGAAGCGCCAC CCGCTGGCGTTTCC CGGAGGAGGCAAAACGT CCCAAGCAGCCAAAACGT CCGATGCGCGCAGACCG GCGGCGCGCTCTGGCTTTC CCGGCGGCGTCTGGCATTT CCCGGCGCGCATTCCACGACC CCGCTGGCGTCTCGGCATTT ACTCGCCCGCGCGCATTT CCCCAGCCCUGGCATTT CCCAGGCCGUGAAGGUGH CCCACGCCCCCGCCACC CCGACGCCCACACTGGG CCCCCCCCCC	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR co qPCR HetA qPCR Ref1 qPCR Ref1 qPCR Ref1 qPCR RP49 qPCR boxB qPCR Fluc(4-300) qPCR Fluc(1277-1512) qPCR Fluc(1277-1512) qPCR PAF1 qPCR LSD1 qPCR Piwi RNAI-KD Panx RNAI-KD Panx RNAI-KD Pi RNAI-KD P15 RNAI-KD P15 RNAI-KD HP1a RNAI-KD G1sf1 RNAI-KD G1sf1 RNAI-KD EGFP RNAI-KD EGFP RNAI-KD PAF1 qNAI-KD Ref1 RANI-KD Ref1 RANI-KD	
Panx_for       Panx_rev       Nxf2_for       Nxf2_for       Nxf2_for       Nxf2_for       Piwi_for       Pic	CAAAGAGGAGCCACCGGAAT CTGCGATGGCTTACTCGTGC CCTCGAACGGTTTACTCACTCCA AGATCCTGCACCCAGTTGTG CGACCAAGAACCGTAGCCTT CTCCGTGCACTGTGCTGAGT CGCGCGCACGACTGTGCGTGTGGAT CGCGCGCAGTGTTGGTGGAT CGCGCGCAGTGTTGGTGGAT CGCGCGCAGCAGTCTCGAGA CGCGCGCAGCGTTTGGTGAGT GCGCGTCGCAGTACGGC CGCGCGCAGGCTCTCGAGA CGCGCGCAGGGTTCGGAGG CGCGTCGCAGGTACCGCG CGCGCGCAGGCTCTCTGAGA CGCGCGCAGGGTCGCGAGG CCGCTCAAGGTACCGCAGC CCGCTCAAGGGACCGACTTG ATCTCGCCGCGGCGTCGCGAGG CCGCTCAAGGGACCGCAGC CCGCTCAAGGGACGCTTTC AGGGAAGCGCAAAACGT TCCGGCGCAGGCAGCGCCA CCGCTGCAGGGCGCAACCC GGCGACGCAAGCGCGAACCC GGCGACGCAAGCGCAAACCT CCGATACTCGCGCGAGTCGAGT	Panx qPCR Nxf2 qPCR Piwi qPCR mdg1 qPCR co qPCR HetA qPCR Ref1 qPCR Ref1 qPCR RP49 qPCR boxB qPCR Fluc(4-300) qPCR Fluc(1277-1512) qPCR Fluc(1277-1512) qPCR PAF1 qPCR LSD1 qPCR PAF1 qPCR LSD1 qPCR Piwi RNAI-KD Panx RNAI-KD Panx RNAI-KD P15 RNAI-KD P15 RNAI-KD HP1a RNAI-KD H11 RNAI-KD G1sf1 RNAI-KD Egg RNAI-KD Egg RNAI-KD EgfP RNAI-KD EgfP RNAI-KD Ref1 RAI-KD RAI-T RNAI-KD Ref1 RAI-KD EgfP RNAI-KD RAI-T RNAI-KD EgfP RNAI-KD RAI-T RNA	

Appendix Table S3. DNA oligonucleotides and siRNAs used in this study, related to experimental procedures