

Figure 1 b

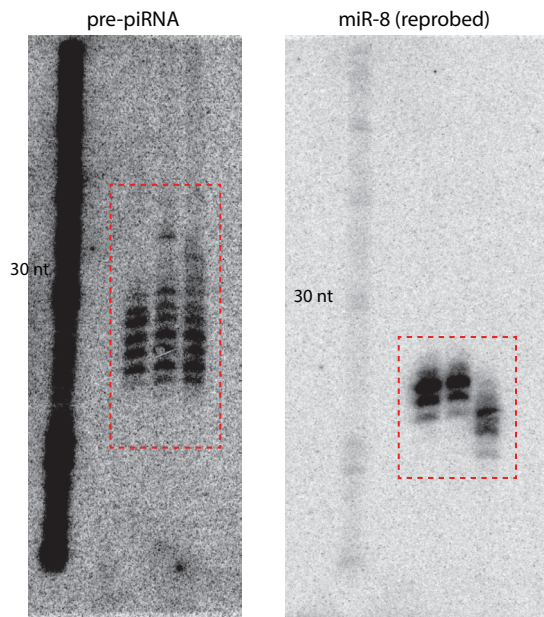


Figure 2 a

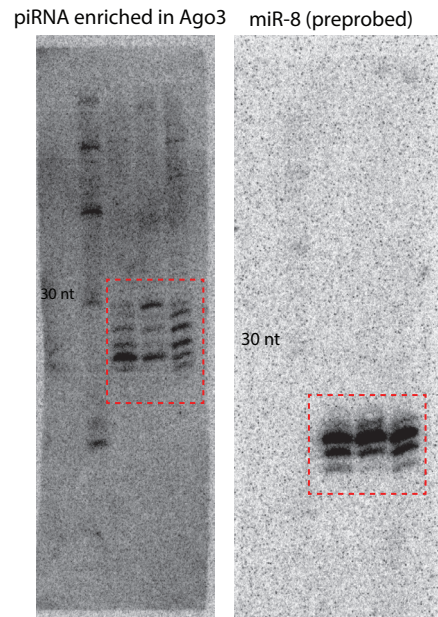


Figure 2 b

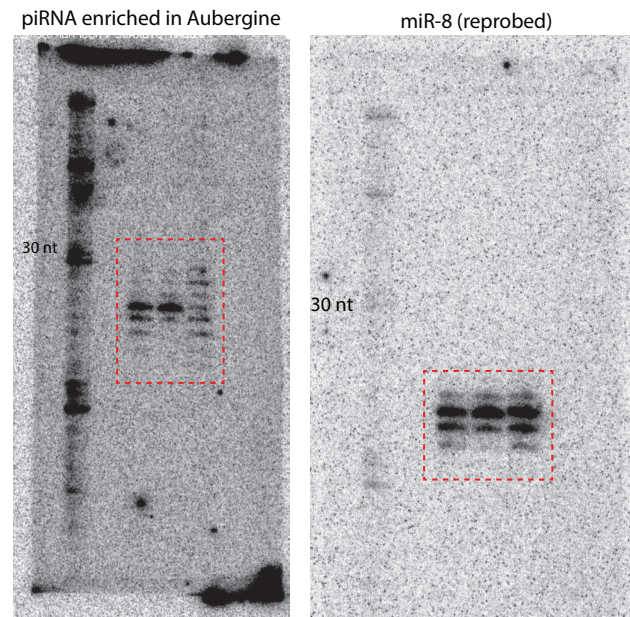


Figure 4 f

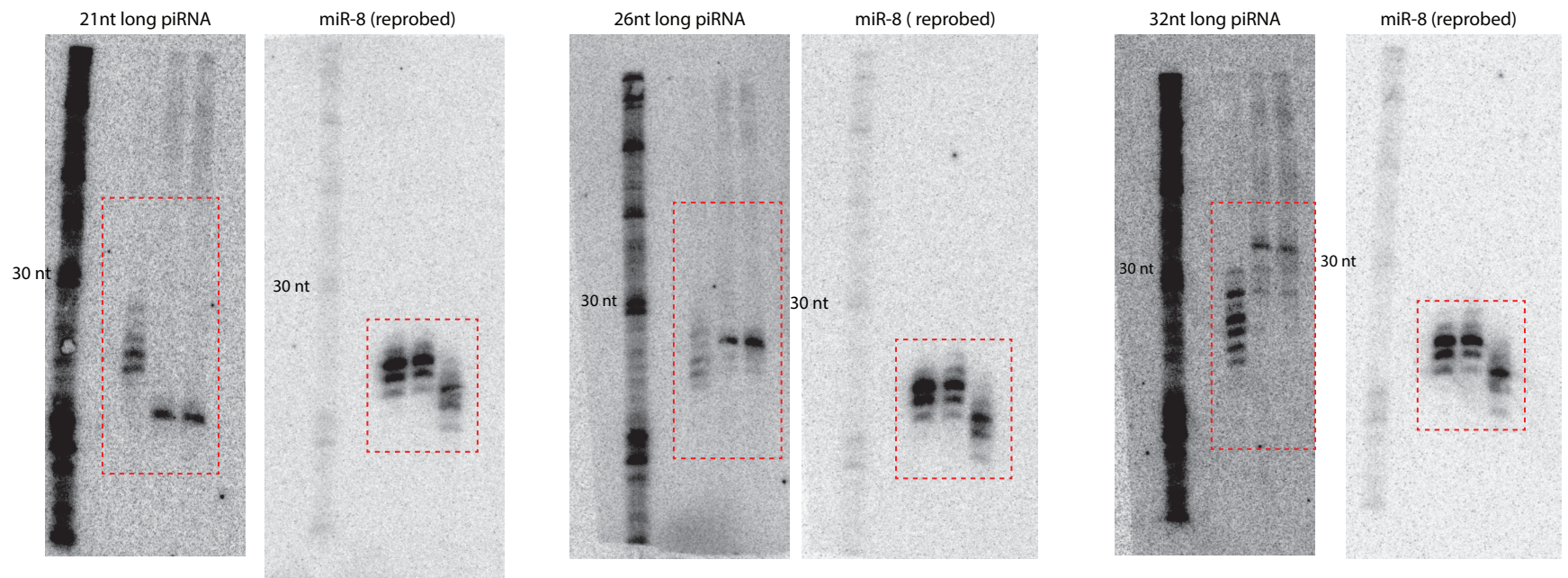


Figure ED2i, j

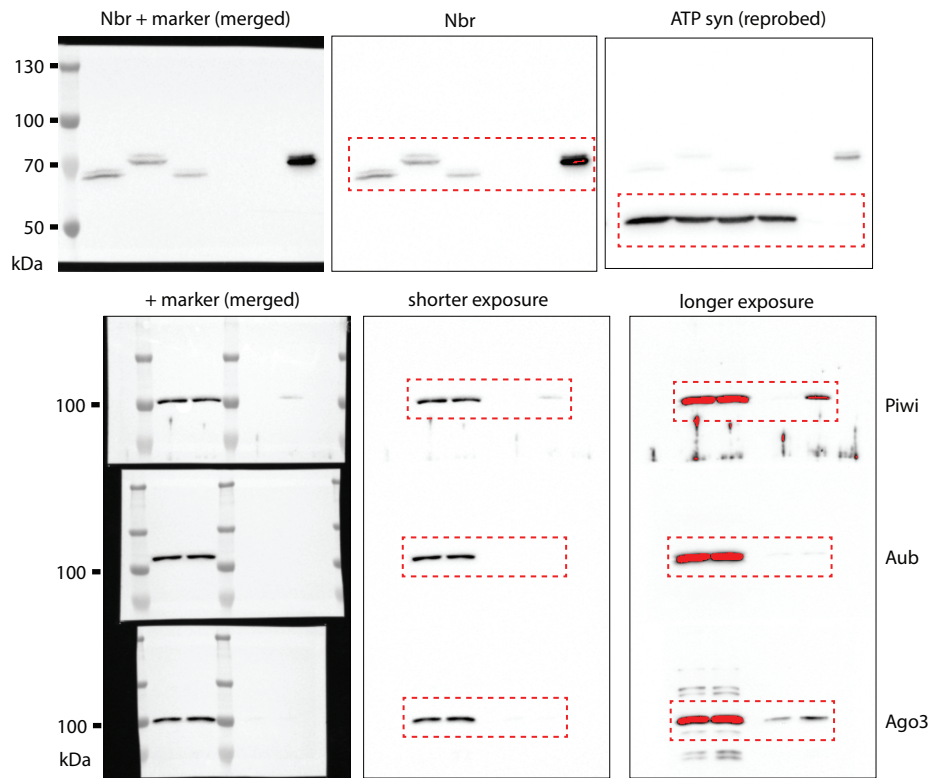


Figure ED3d

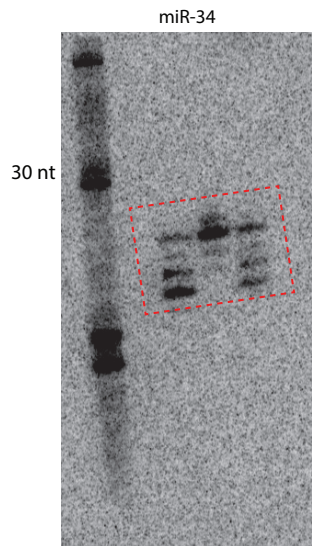
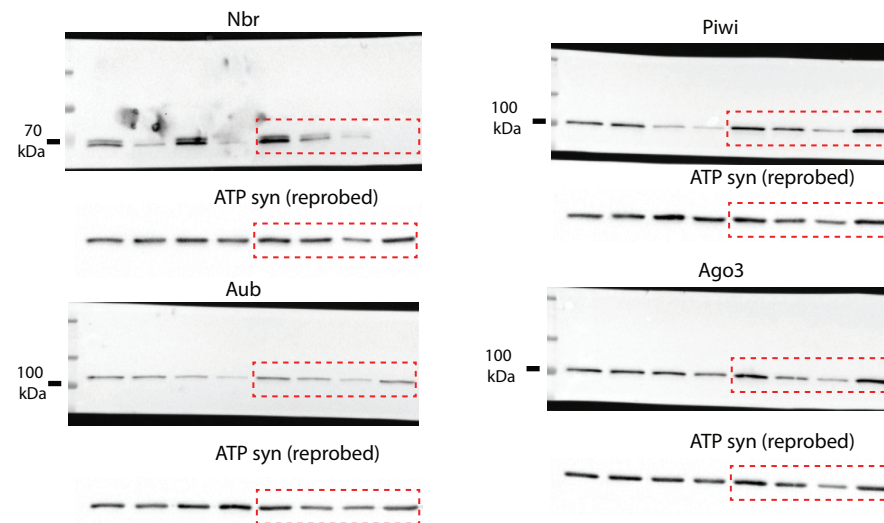


Figure ED3f



Supplementary Table of high throughput datasets analyzed in this study

Sample name	title	used in the following figure panels	GEO Accession
libraries sequenced in this study			
w1118_total_no_2S_rRNA_depletion	small RNAs (18-29nt) from w1118 ovaries without 2S rRNA depletion	Fig. ED4	GSE83698
w1118_total	small RNAs (18-40nt) from w1118 ovaries with 2S rRNA depletion	Fig. 2a, 2b, 3c, ED6c, ED4d, ED4e, ED4, ED4i, ED7b	GSE83698
w1118_PiwiIP	Piwi bound small RNAs (18-40nt) from w1118 ovaries	Fig. 1e, 2c, 3b, 3c, ED6c, ED3j, ED5a, ED5b, ED6a	GSE83698
w1118_AubIP	Aub bound small RNAs (18-40nt) from w1118 ovaries	Fig. 1e, 2c, 2d, 2e, 3b, 3c, ED6c, ED5a, ED5b, ED5c, ED6a	GSE83698
w1118_Ago3IP	Ago3 bound small RNAs (18-40nt) from w1118 ovaries	Fig. 1e, 2c, 2d, 2e, 3b, 3c, ED6c, ED5a, ED5b, ED5c, ED6a	GSE83698
Nibbler_KO_total	small RNAs (18-40nt) from Nibbler knock-out ovaries with 2S rRNA depletion	Fig. 2a, 2b, 3c, ED6c, ED4d, ED4i, ED4e, ED7b	GSE83698
Nibbler_KO_PiwiIP	Piwi bound small RNAs (18-40nt) from Nibbler -/- ovaries	Fig. 1e, 2c, 3b, 3c, ED6c, ED3j, ED5a, ED5b, ED6a	GSE83698
Nibbler_KO_AubIP	Aub bound small RNAs (18-40nt) from Nibbler -/- ovaries	Fig. 1e, 2c, 2d, 2e, 3b, 3c, ED6c, ED5a, ED5b, ED5c, ED6a	GSE83698
Nibbler_KO_Ago3IP	Ago3 bound small RNAs (18-40nt) from Nibbler -/- ovaries	Fig. 1e, 2c, 2d, 2e, 3b, 3c, ED6c, ED5a, ED5b, ED5c, ED6a	GSE83698
Papi_KO_PiwiIP	Piwi bound small RNAs (18-40nt) from Papi -/- ovaries	Fig. 1e, ED3j	GSE83698
Papi_KO_AubIP	Aub bound small RNAs (18-40nt) from Papi -/- ovaries	Fig. 1e	GSE83698
Papi_KO_Ago3IP	Ago3 bound small RNAs (18-40nt) from Papi -/- ovaries	Fig. 1e	GSE83698
Zuc_depletion_AubIP	Aub bound small RNAs (18-40nt) from Zucchini depleted ovaries	Fig. 1b	GSE83698
Zuc_Nbr_depletion_AubIP	Aub bound small RNAs (18-50nt) from Zucchini and Nibbler depleted ovaries	Fig. ED8b, ED9b	GSE83698
Zuc_Nbr_depletion_Ago3IP	Ago3 bound small RNAs (18-50nt) from Zucchini and Nibbler depleted ovaries	Fig. ED8b, ED9b	GSE83698
Biogenesis_repoter_1_two_sites+Zuc_depletion	small RNAs (18-40nt) from flies containing piRNA biogenesis repoter_1 with two target sites with Zucchini depletion and 2S rRNA depletion	Fig. 1d, ED7a, ED8b	GSE83698
Biogenesis_repoter_1_two_sites+Zuc_Papi_depletion	small RNAs (18-40nt) from flies containing piRNA biogenesis repoter_1 with two target sites with Zucchini and Papi depletion and 2S rRNA depletion	Fig. 1d	GSE83698
Biogenesis_repoter_1_two_sites+Zuc_Nbr_depletion	small RNAs (18-40nt) from flies containing piRNA biogenesis repoter_1 with two target sites with Zucchini and Nibbler depletion and 2S rRNA depletion	Fig. 1d, ED7a, ED8b	GSE83698
Biogenesis_repoter_2_two_sites+Zuc_depletion	small RNAs (18-40nt) from flies containing piRNA biogenesis repoter_2 with two target sites with Zucchini depletion and 2S rRNA depletion	Fig. ED7a, ED2f, ED8b	GSE83698
Biogenesis_repoter_2_two_sites+Zuc_Papi_depletion	small RNAs (18-40nt) from flies containing piRNA biogenesis repoter_2 with two target sites with Zucchini and Papi depletion and 2S rRNA depletion	Fig. ED2f, ED3d, ED2g	GSE83698
Biogenesis_repoter_2_two_sites+Zuc_Nbr_depletion	small RNAs (18-40nt) from flies containing piRNA biogenesis repoter_2 with two target sites with Zucchini and Nibbler depletion and 2S rRNA depletion	Fig. ED7a, 4b, ED2f, ED8b	GSE83698
Biogenesis_repoter_2_three_sites+Zuc_Nbr_depletion	small RNAs (18-40nt) from flies containing piRNA biogenesis repoter_2 with three target sites with Zucchini and Nibbler depletion and 2S rRNA depletion	Fig. ED7a, 4b, ED8b	GSE83698
Zuc_Nbr_depletion_rep1	small RNAs (18-40nt) from Zucchini and Nibbler depleted ovaries with 2S rRNA depletion	Fig. ED7a, 4a, 4c, 4d, ED8a, ED8b, ED8c, ED9a, ED10a	GSE83698
Zuc_Nbr_depletion_rep2	small RNAs (18-40nt) from Zucchini and Nibbler depleted ovaries with 2S rRNA depletion	Fig. ED7a, ED8b	GSE83698
Zuc_Nbr_depletion_rep3	small RNAs (18-40nt) from Zucchini and Nibbler depleted ovaries with 2S rRNA depletion	Fig. ED7a, ED8b	GSE83698
Zuc_depletion_rep1	small RNAs (18-40nt) from Zucchini and depleted ovaries with 2S rRNA depletion	Fig. 1b, 2a, 2b, ED7a, 4a, 4c, 4e, ED1a, ED1b, ED2g, ED3d, ED8a, ED8b, ED8c, ED9a	GSE83698
Zuc_depletion_rep2	small RNAs (18-40nt) from Zucchini and depleted ovaries with 2S rRNA depletion	Fig. ED7a, ED8b	GSE83698
Zuc_depletion_rep3	small RNAs (18-40nt) from Zucchini and depleted ovaries with 2S rRNA depletion	Fig. ED7a, ED8b	GSE83698
Zuc_depletion_rep4	small RNAs (18-40nt) from Zucchini and depleted ovaries with 2S rRNA depletion	Fig. ED7a, ED8b	GSE83698
Zuc_Nbr_depletion_oxidized	small RNAs (18-40nt) from Zucchini and Nibbler depleted ovaries with 2S rRNA depletion and oxidation	Fig. ED10b	GSE83698
w1118_polyA_plus_RNAseq	polyA selected RNAs from w1118 ovaries	Fig. ED3g	GSE83698
nibbler_null_polyA_plus_RNAseq	polyA selected RNAs from Nibbler -/- ovaries	Fig. ED3g	GSE83698
control_depletion_polyA_plus_RNAseq	polyA selected RNAs from control depletion ovaries	Fig. ED7d	GSE83698
zucchini_depletion_polyA_plus_RNAseq	polyA selected RNAs from Zucchini depleted ovaries	Fig. ED7d	GSE83698
zucchini_and_nibbler_depletion_polyA_plus_RNAseq	polyA selected RNAs from Zucchini and Nibbler depleted ovaries	Fig. ED7d	GSE83698
libraries sequenced previously			
Wsh_total	small RNAs (18-29nt) from control depletion ovaries	Fig. ED6d, ED1a, ED1b	GSE55824
Wsh_PiwiIP	Piwi bound small RNAs (18-40nt) from control depleted ovaries	Fig. ED1a	GSE64802
Wsh_AubIP	Aub bound small RNAs (18-40nt) from control depleted ovaries	Fig. ED1a	GSE64802
Wsh_Ago3IP	Ago3 bound small RNAs (18-40nt) from control depleted ovaries	Fig. ED1a	GSE64802
ZUCsh_PiwiIP	Piwi bound small RNAs (18-40nt) from Zucchini depleted ovaries	Fig. ED1a, ED5a	GSE64802
ZUCsh_Aub3IP	Aub bound small RNAs (18-40nt) from Zucchini depleted ovaries	Fig. 2c, 2d, 2e, ED8b, ED1a, ED5a, ED5b, ED5c, ED9b	GSE64802
ZUCsh_Ago3IP	Ago3 bound small RNAs (18-40nt) from Zucchini depleted ovaries	Fig. 2c, 2d, 2e, ED8b, ED1a, ED5a, ED5b, ED5c, ED9b	GSE64802