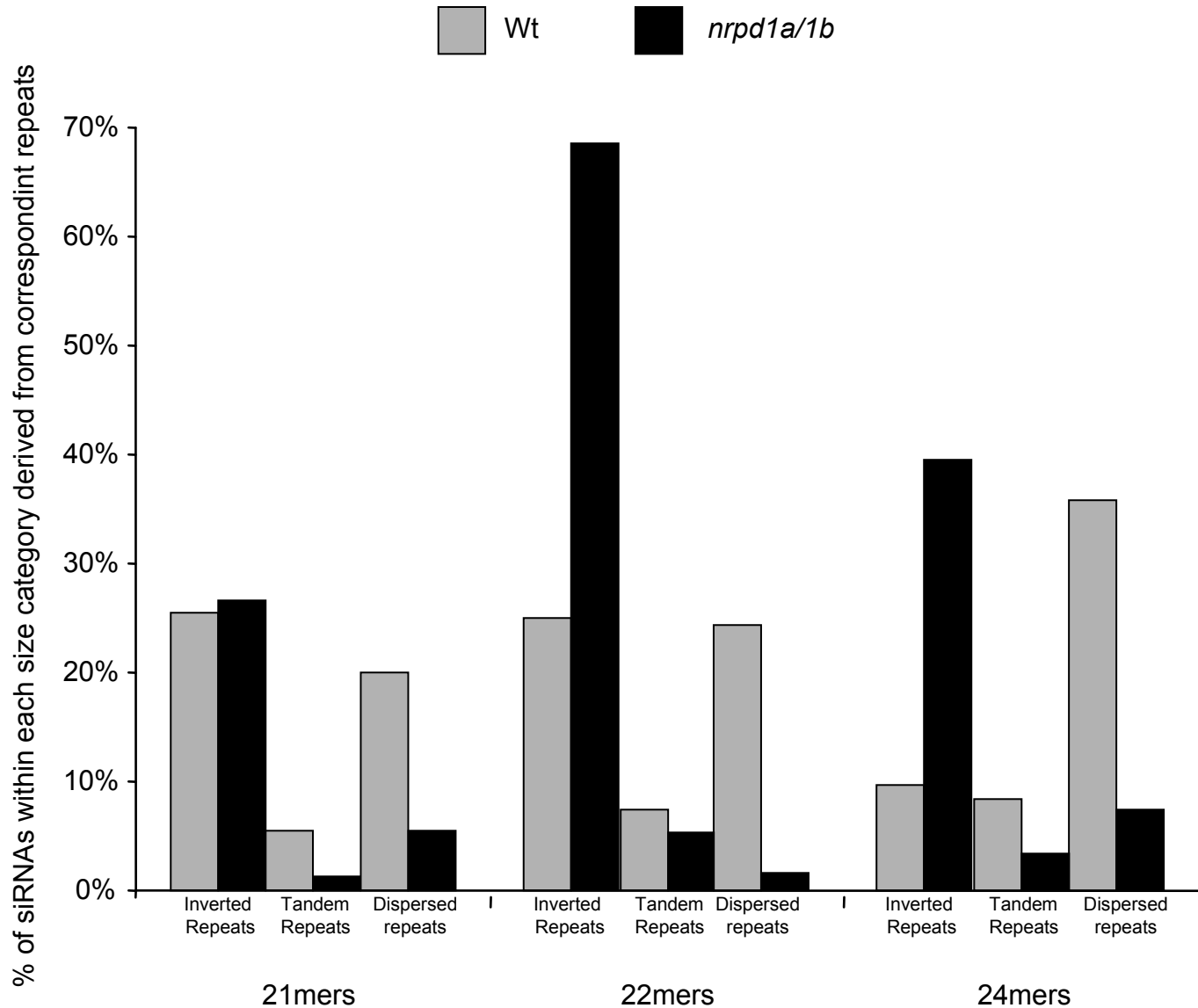
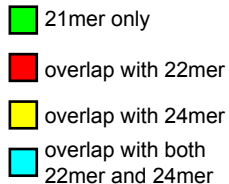
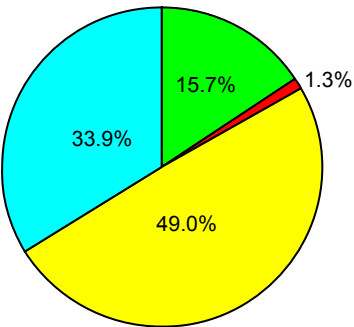


Fig. 5

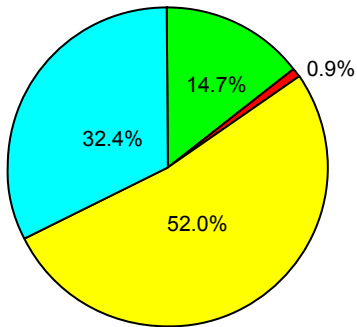


	% that overlap with siRNA clusters in Wt			% that overlap with siRNA clusters in <i>nrpd1a/1b</i>		
	21mer	22mer	24mer	21mer	22mer	24mer
Inverted repeats	2.63%	2.06%	16.00%	1.92%	0.58%	0.28%
Tandem repeats	1.35%	1.74%	13.23%	0.41%	0.31%	0.29%
Dispersed repeats	3.72%	4.38%	25.94%	0.90%	0.47%	0.36%

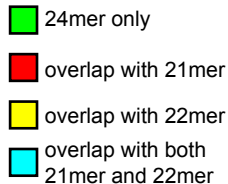
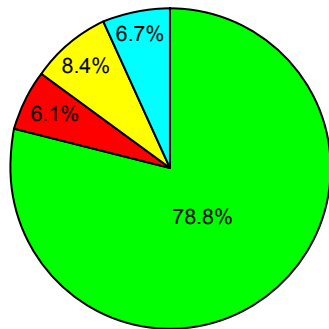
21mer clusters

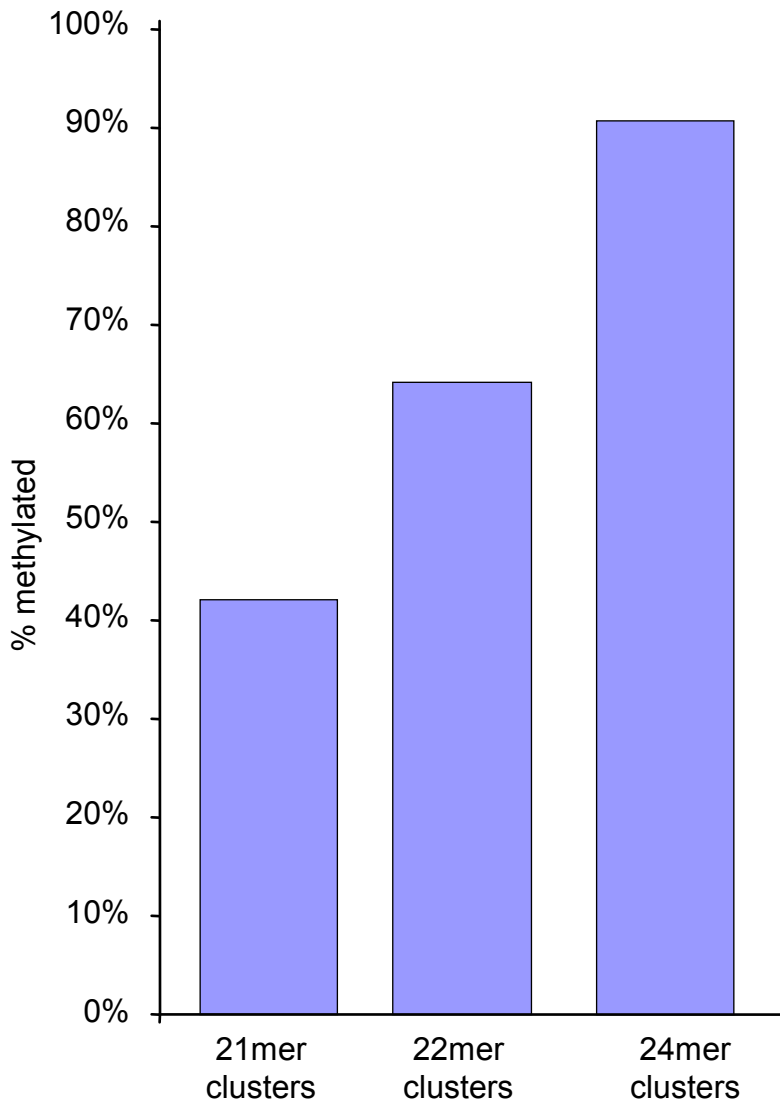


22mer clusters



24mer clusters

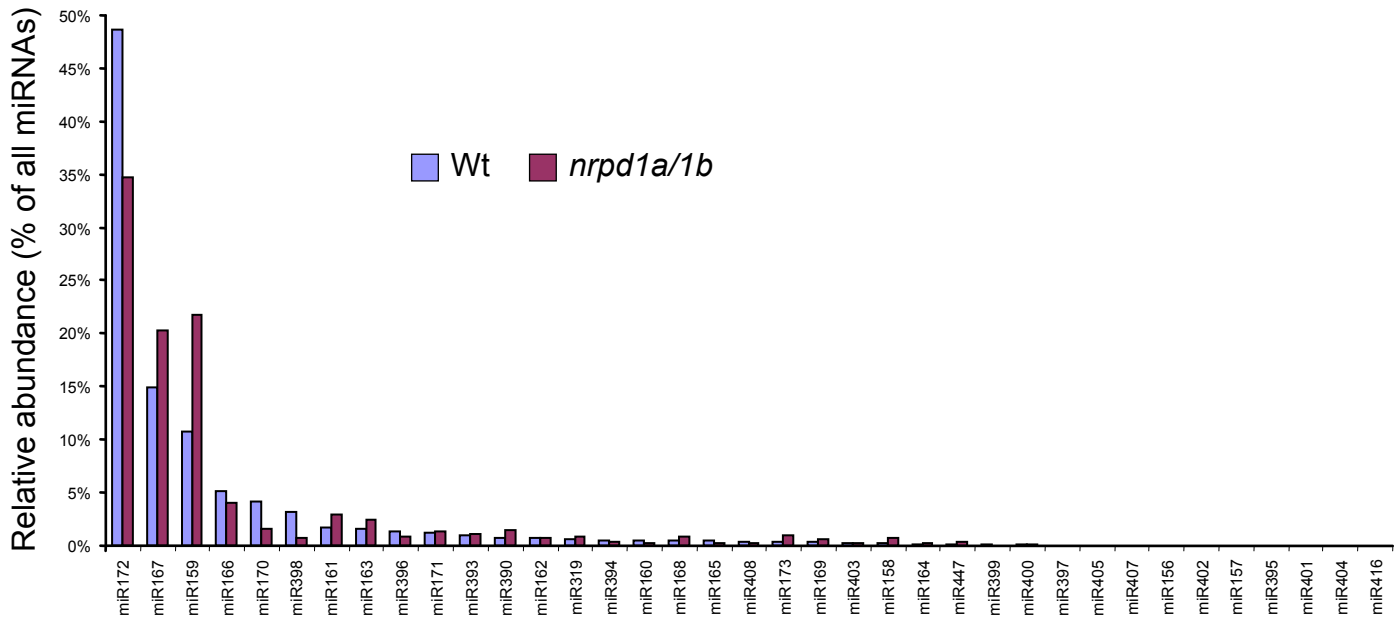
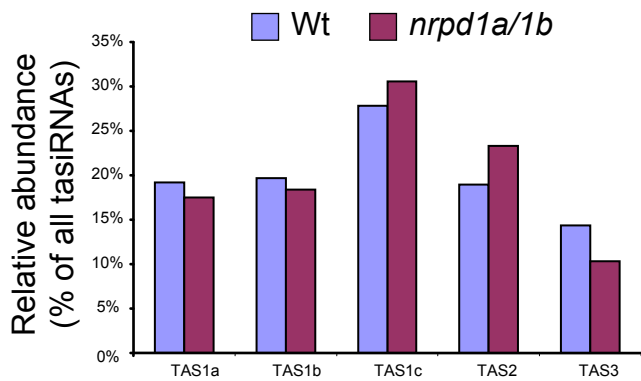


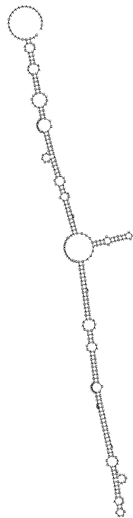


	21mer clusters	22mer clusters	24mer clusters
MET1-dependent DNA methylation ^a	26.1%	27.1%	43.6%
DRM1/2 CMT3-dependent DNA methylation ^b	10.5%	9.9%	16.6%

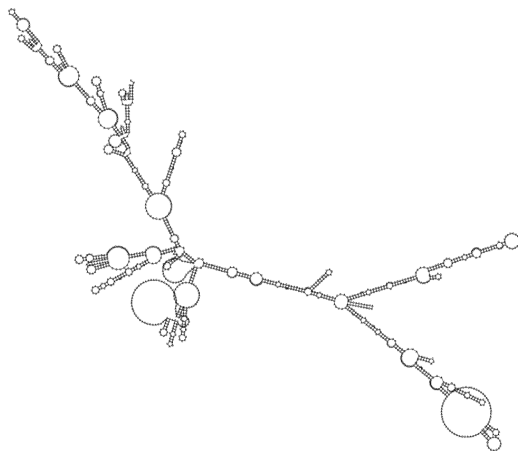
^a DNA methylation eliminated in *met1*, accounting for ~64% of all DNA methylation

^b DNA methylation eliminated in *drm1 drm2 cmt3*, accounting for ~7% of all DNA methylation

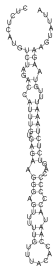
a**b**



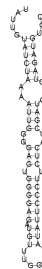
Chr4; 8504040-8504390



Chr3; 8529189-8530682



Chr4; 12625128_12625209



Chr4; 12625686_12625756

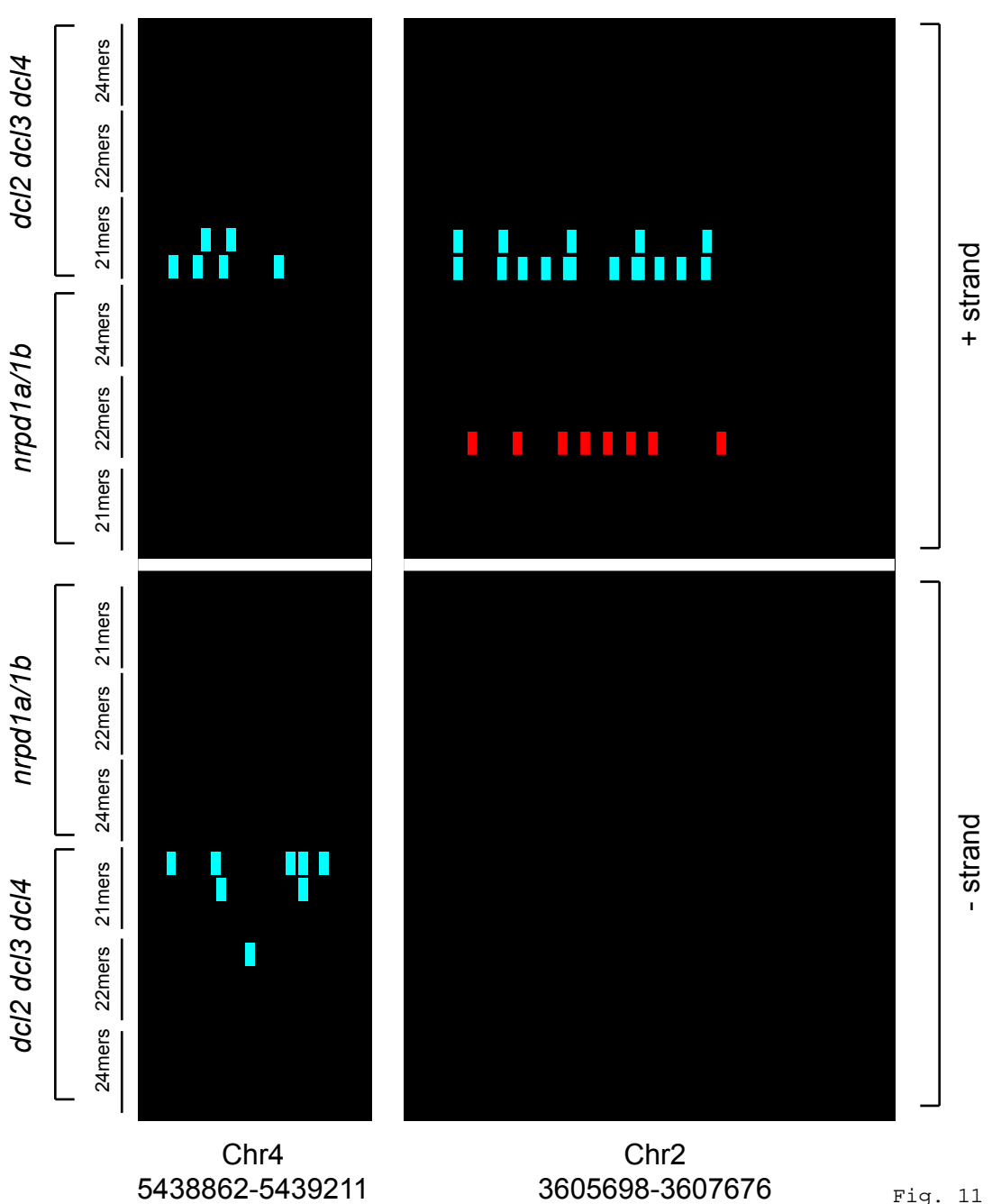


Fig. 11

Table 3. List of single-stranded siRNA clusters from wild type *

Type	Chr	From	To	No. PMs	No. unique PMs	Unique PMs from + strand	Unique PMs from - strand	Remain in <i>nripd1a/1b</i> ?	
21mer	1	26777355	26777379	108	64	0	64	Y	
	1	25282680	25282821	14	14	0	14	Y	
	1	24887728	24888066	12	12	11	1	Y	
	1	22153670	22153690	11	11	11	0	Y	
	3	1963737	1970448	624	60	1	59	Y	
	3	17739559	17739939	23	21	1	20	Y	
	3	16169065	16171986	26	16	16	0	Y	
	4	12625138	12625158	403	403	403	0	Y	
	4	8504140	8504181	20	20	0	20	Y	
	4	12625731	12625766	18	18	18	0	Y	
	5	22339968	22340124	16	16	0	16	Y	
	5	23411498	23411658	12	12	12	0	Y	
	5	897065	897306	10	10	0	10	Y	
	22mer	1	22799364	22799536	47	47	47	0	Y
		1	16600803	16601146	11	11	1	10	N
1		28969140	28970257	10	10	9	1	Y	
3		1963782	1970377	1391	106	0	106	Y	
3		19670359	19670380	14	14	0	14	Y	
4		17637301	17637633	11	11	1	10	N	
24mer	2	2059493	2062024	17	15	1	14	N	
	2	1349654	1350116	12	11	1	10	N	
	3	1963584	1970377	259	35	0	35	Y	
	3	8219705	8219970	13	13	1	12	N	
	3	10767366	10767551	12	12	1	11	Y	
	3	16169055	16170723	13	11	10	1	Y	
	5	8614362	8614683	12	12	0	12	N	
	5	14881921	14882110	10	10	0	10	N	

* For clusters containing 10 or more unique PMs; see text for details.

Table 4. Characteristics of siRNA clusters in *nripd1a1b* *

Type	Chr	From	To	Located in	Number of unique PMs	Single stranded?
21mer	4	12625138	12625159	Hairpin RNA †	1964	Y
	1	29427372	29427459	Inverted Repeats	130	Y
	5	22339919	22340124	Inverted Repeats	104	Y
	3	1963737	1970452	Inverted Repeats	89	Y
	1	26777355	26777377	Inverted Repeats	77	Y
	1	24887723	24888066	Inverted Repeats	73	Y
	3	16169469	16172273	Inverted Repeats	61	Y
	1	24724740	24725116	Inverted Repeats	52	Y
	4	12625731	12625766	Hairpin RNA †	42	Y
	1	22153400	22153690	Inverted Repeats	36	Y
	1	25282780	25283348	Inverted Repeats	31	Y
	1	234011	234153	Inverted Repeats	25	Y
	2	819538	823218	Inverted Repeats	25	Y
	4	8504140	8504290	Hairpin RNA †	24	Y
	1	23423628	23424427	- ‡	23	N
	5	20151645	20151910	- ‡	23	N
	3	19670275	19670650	Inverted Repeats	22	Y
	4	13295903	13296105	Inverted Repeats	22	Y
	3	13748165	13750556	- ‡	19	N
	1	23417106	23418094	- ‡	18	N
	3	8529289	8530582	Hairpin RNA †	16	Y
	5	897023	897309	Inverted Repeats	16	Y
	1	23392535	23393883	- ‡	15	N
	3	17739559	17739940	Inverted Repeats	15	Y
	5	15774917	15775419	Inverted Repeats	13	Y
	5	21178736	21178855	Inverted Repeats	12	Y
	1	5297944	5298116	- ‡	11	N
	1	22581326	22581347	Inverted Repeats	11	Y
	4	11375398	11375418	Inverted Repeats	11	Y
	22mer	1	22799301	22799476	Inverted Repeats	294
3		1963789	1970393	Inverted Repeats	138	Y
1		29427150	29427460	Inverted Repeats	55	Y
1		13067291	13067312	Inverted Repeats	52	Y
3		16169806	16171863	Inverted Repeats	51	Y
3		19670359	19670380	Inverted Repeats	20	Y
2		819513	823143	Inverted Repeats	13	Y
24mer	1	24724748	24725151	Inverted Repeats	31	Y
	3	1963756	1970450	Inverted Repeats	31	Y
	3	16169932	16171918	Inverted Repeats	29	Y

* For clusters with 10 or more unique PMs (see text for details).

† Depicted in Figure 10.

‡ No apparent repeat structure detected.