

Table S5: Evaluation of piRNA clusters

piRNAs identified in comparison to the piRNA cluster database					
Category	Cortex	Hippocampus	Kidney	Liver	Testis
Total piRNA	1963	5459	580	406	40808
Overlapped with clusters	123	112	46	23	20396
Percentage (%)	6.27	2.05	7.93	5.67	49.98

Identification of short, highly abundant piRNA clusters					
	Cortex	Hippocampus	Kidney	Liver	Testis
Total piRNA	1963	5459	580	406	40808
Number of short piRNA	893	2224	364	262	1831
Number of highly expressed piRNA	1062	861	217	167	15996
Total piRNA					
Clustered piRNA	86	91	21	14	20467
Average number of piRNAs in a cluster	2.15	2.60	2.10	2.00	4.61
Clustered/total piRNA	4.38	1.67	3.62	3.45	50.15
short piRNA (20 - 25nt)					
Clustered piRNA	47	54	20	11	837
Average number of piRNAs in a cluster	1.18	1.54	2.00	1.57	0.19
Clustered/Number of short piRNAs (%)	5.26	2.43	5.49	4.20	45.71
Highly expressed piRNA					
Clustered piRNA	71	45	15	10	11966
Average number of piRNAs in a cluster	1.78	1.29	1.50	1.43	2.70
Clustered/Number of highly expressed piRNAs (%)	6.69	5.23	6.91	5.99	74.81