

A	B	C	D	E	F	G	H	I	J	K	L
Table S3: additional annotated miRNAs in C. elegans and mouse											
Comparing with Paper: Gu, Weifeng, et al. "CapSeq and CIP-TAP Identify Pol II start sites and reveal capped small RNAs as C. elegans piRNA precursors." Cell 151.7 (2012): 1488-1500.											
New identified pre-miRNAs with candidate primary TSSs in C. elegans											
#mi name	mi chrom	mi strand	mi start	mi end	pre-miRNA capped	pre cap reads number	pri TSS	pri TSS position	pri TSS reads number		
1	cel-mir-8204	I	+	3710241		0		1 3710095,	67,		
2	cel-mir-1818	I	-	13980858	13980954	0		5 13980989,13989672,13992591,13997150,14004323,	19,12,5,12,5,		
3	cel-mir-1823	I	+	12608619	12608708	0		1 12601770,	7,		
4	cel-mir-234	II	-	14466263	14466358	0		1 14468883,	15,		
5	cel-mir-5593-1	II	+	431492	431554	0		4 420660,423250,427134,429983,	38,13,14,37,		
6	cel-mir-45	II	-	11880944	11881039	0		3 11881110,11884361,11886964,	88,56,10,		
7	cel-mir-261	II	+	5969058	5969156	0		1 5967673,	27,		
8	cel-mir-44	II	+	11890023	11890118	0		6 11887151,11888058,11888392,11889625,11889824,11889993,	15,24,93,11,368,499,		
9	cel-mir-2207	II	+	11600300	11600383	1 21,		3 11595576,11595763,11595881,	6,16,5,		
10	cel-mir-8186-2	II	-	18637	18697	0		2 18932,22945,	39,5,		
11	cel-mir-5547	II	+	12238602	12238711	0		1 12237814,	35,		
12	cel-mir-272	III	-	11637966	11638060	0		5 11657316,11674565,11675607,11684870,11689384,	9,12,10,5,5,		
13	cel-mir-76	III	+	3142045	3142141	0		3 3136864,3139322,3140528,	9,15,316,		
14	cel-mir-2213	III	+	6968870	6968924	0		1 6968527,	18,		
15	cel-mir-5551	IV	+	9757508	9757616	0		2 9741430,9757383,	5,9,		
16	W08D2.14	IV	-	9825315	9825421	0		1 9825518,	6,		
17	cel-mir-232	IV	-	10994169	10994266	0		3 10994312,10995625,11008387,	54,13,63,		
18	cel-mir-4934	IV	-	9825312	9825421	0		1 9825518,	6,		
19	cel-mir-4937	IV	-	1381705	1381814	0		2 1381998,1390313,	12,7,		
20	cel-mir-59	IV	-	11309154	11309253	0		2 11309320,11310747,	8,15,		
21	C07B3.1	IV	-	1381706	1381814	0		2 1381998,1390313,	12,7,		
22	cel-mir-61	V	-	11770060	11770156	0		7 11770221,11773124,11773636,11774077,11774168,11777938,11779565,	39,9,86,17,24,7,12,		
23	cel-mir-8194	V	-	1221313	1221368	0		2 1221457,1222116,	6,5,		
24	cel-mir-250	V	-	11769917	11770015	0		7 11770221,11773124,11773636,11774077,11774168,11777938,11779565,	39,9,86,17,24,7,12,		
25	cel-mir-259	V	-	10539025	10539125	0		1 10539186,	44,		
26	cel-mir-792	V	-	3042092	3042181	0		1 3042229,	14,		
27	cel-mir-8203	X	-	7882764	7882824	0		1 7883041,	10,		
28	cel-mir-787	X	+	11294708	11294797	0		3 11288996,11290226,11290665,	18,5,159,		
29	cel-mir-785	X	+	3004668	3004761	0		1 2995849,	15,		
30	cel-mir-786	X	+	7882751	7882840	0		1 7881107,	5,		
31	cel-mir-264	X	+	2819254	2819346	0		2 2809851,2814606,	16,76,		
32	cel-mir-359	X	+	3004291	3004400	0		1 2995849,	15,		
33	F18E9.9	X	-	8600642	8600734	0		1 8601093,	5,		
34	cel-mir-73	X	+	2368765	2368863	0		2 2367321,2368753,	7,306,		
35	cel-mir-800	X	-	380919	380991	0		1 381098,	14,		
36	cel-mir-251	X	+	11004728	11004824	0		2 11003127,11004598,	6,40,		
37	cel-mir-392	X	+	13597231	13597340	0		1 13596247,	86,		
38	cel-mir-799	X	+	8600643	8600735	0		1 8601093,	5,		
39	cel-mir-797	X	+	4757109	4757197	0		7 4741598,4744289,4748911,4750276,4751364,4751655,4752322,	6,10,17,5,8,10,7,		
40	cel-mir-793	X	+	13857962	13858053	0		1 13857900,	55,		
41	cel-mir-791	X	+	5809349	5809433	0		1 5809275,	15,		
Common identified pre-miRNAs with candidate primary TSSs in C. elegans											
#mi name	mi chrom	mi strand	mi start	mi end	pre TSS	pri TSS position	Previous work: TS by Capseq	difference	Previous work: TS by CIP-TAP	difference	
1	cel-mir-235	I	-	6162291	6162387		2 6163239,6164365,	6163240	1	6163246	7
2	cel-mir-244	I	-	4684316	4684414		1 4684495,	4684495	0	4684495	0
3	cel-mir-79	I	+	9332946	9333043		3 9331031,9331835,9332806,	9332815	9	9332798	8
4	cel-mir-245	I	+	7887371	7887467		2 7886105,7887328,	7887302	26	NA	NA
5	cel-mir-236	II	-	7030180	7030277		3 7030340,7031321,7033201,	7031417	26	NA	NA
6	cel-mir-60	II	-	6328702	6328799		1 6328847	6328844	96	7030291	49
7	cel-mir-355	II	-	11833536	11833645		1 11833679,	11833788	33	6328814	33
8	cel-mir-2215	II	-	13333763	13333872		4 13335024,13335202,13338104,13338764,	13335143	109	11833615	64
9	cel-mir-72	II	+	2452838	2452936		1 2452695,	2452670	89	13335149	83
10	cel-mir-238	III	-	8867328	8867425		2 8867479,8868502,	8867523	25	2452654	41
11	cel-mir-46	III	+	13660515	13660611		1 13660404,	13660307	44	8867426	53
12	cel-mir-242	IV	+	4274247	4274342		1 4274173,	4274205	97	13660307	97
13	cel-mir-53	IV	-	11027593	11027691		1 11028153,	11027733	32	NA	NA
14	cel-mir-241	V	-	14366188	14366283		1 14366610,	14366564	420	11027733	420
15	cel-lsy-6	V	+	10647232	10647304		2 10645677,10647182,	NA	46	14366604	6
16	cel-mir-255	V	+	5440639	5440748		1 5440590,	5440574	16	10647161	21
17	cel-mir-788	X	-	8485294	8485371		1 8485434,	8485522	88	NA	NA
18	cel-mir-47	X	+	13921346	13921446		5 13887410,13889362,13917622,13918406,13920855,	13920754	101	5440574	16
19	cel-mir-63	X	-	1759868	1759868		2 17598908,17600216,	NA	88	NA	NA
20	cel-mir-248	X	-	2262470	2262470		1 2262525,	2262553	101	13920754	101
21	cel-mir-49	X	+	9989282	9989378		4 9985099,9987380,9988327,9989143,	NA	28	17598794	114
22	cel-mir-75	X	+	2372453	2372453		3 2369581,2370904,2372432,	NA	28	NA	NA
23	cel-mir-239b	X	-	11791302	11791399		1 11791457,	11791759	302	9989074	69
24	cel-let-7	X	-	14744173	14744271		2 14744481,14747079,	14744411	70	2372236	196
New identified miRNA clusters in C. elegans											
cluster number	mi name	mi chrom	mi strand	mi start	mi end	pre-miRNA capped	pre cap reads number	pri TSS	pri TSS position	pri TSS reads number	
*1	cel-mir-86	III	-	11936637	11936734		1	23	2 11936993,11937071,		
1	cel-mir-8211	III	-	11936916	11936980		0	0	2 11936993,11937071,		
*2	cel-mir-792	V	-	3042092	3042181		0	0	1 3042228,		
2	cel-mir-1821	V	-	3042530	3042633		0	0	1 3042228,		
Common miRNA clusters in C. elegans											
mi cluster	mi chrom	mi strand	mi start	mi end	pre TSS	pri TSS position	Previous work: TS by Capseq	difference	Previous work: TS by CIP-TAP	difference	
1	smir-35_36_37_38_39	II	+	11537604	11537625		5 11535699,11535906,11536194,11537280,11537526,	11537462	64	11537462	64
2	smir-42_43_44_45	II	+	11889807	11889828		3 11888058,11888392,11889625,	11889633	8	11889633	8
3	smir-229_64_65_66	III	+	2172445	2172474		1 2172375,	2172340	35	2172355	20
4	smir-61_250	V	-	1170058	1170078		1 1170221,	1170202	19	1170134	87
5	smir-54_59_56	X	-	13144941	13144964		4 13145254,13145358,13146147,13146365,	13145183	175	13145183	175
6	smir-73_74	X	+	2368818	2368840		2 2367321,2368753,	2368753	0	2368749	4
New identified pre-miRNAs with candidate primary TSSs in mouse											
#mi name	mi chrom	mi strand	mi start	mi end	pre-miRNA capped	pre cap reads number	pri TSS	pri TSS position	pri TSS reads number		
1	ENSMUSG000000928	7	-	54213169	54213365	0		6 54238312,54412530,54420268,54524035,54835567,55145299,	57,63,7,1,2,1,		
2	ENSMUSG000000883	7	-	24336340	24336465	0		7 24352125,24369867,24371490,24381642,24399034,24399865,24429918,	8,3,9,5,12,6,5,		
3	mmu-mir-6238	7	-	53891761	53891889	0		1 53972745,	5,		
4	ENSMUSG000000933	7	+	101881184	101881279	0		6 101836378,101836431,101836738,101837036,101837088,101837871,	2,28,9,2,22,3,		
5	mmu-mir-290a	7	+	3218626	3218708	0		4 3133916,3181070,3181299,3214872,	1,252,21,2,		
6	ENSMUSG000000881	7	+	11776794	11776998	0		1 117736056,	5,		
7	ENSMUSG000000992	7	+	115172273	115172352	0		5 11498429,114995769,115093984,115123499,115171993,	1,1,1,10,1653,		
8	mmu-mir-297a-1	7	-	10958437	10958512	0		1 11139474,	1,		
9	mmu-mir-150	7	+	45121757	45121821	0		7 45082629,45090806,45091387,45091544,45092449,45103150,45121714,	9,14,1,27,4,16,26,		
10	ENSMUSG000000770	7	+	79949187	79949282	0		1 79938257,	1,		
11	ENSMUSG000000931	7	-	128478014	128478138	0		16 128517529,128523462,128524384,128531278,1285320			