

Supplementary Information

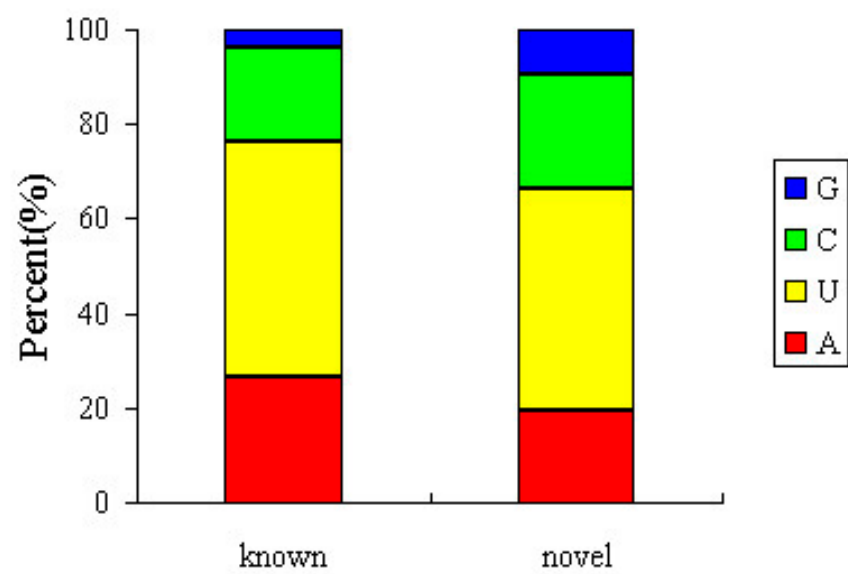


Figure S1. First-nucleotide bias in known and novel miRNAs.

Table S2. Differentially expressed miRNAs in JEV-infected PK-15 cells.

miRNA	Reads in Libraries		Fold Change	miRNA	Reads in Libraries		Fold Change
	Infected	Uninfected			Infected	Uninfected	
Up-Regulated				Down-Regulated			
ssc-let-7d-3p	112	8	6.78	ssc-let-7d-5p	376	1773	4.62
ssc-miR-1	560	61	8.03	ssc-miR-1285	3	27	2.85
ssc-miR-101	2701	484	5.49	ssc-miR-143-3p	7	92	6
ssc-miR-103	1515	697	2.16	ssc-miR-145-5p	6	87	6.06
ssc-miR-10a-5p	8141	3471	2.34	ssc-miR-155-5p	25	62	2.06
ssc-miR-10a-3p	285	63	4.04	ssc-miR-15a	48	156	2.91
ssc-miR-10b	2986	1162	2.56	ssc-miR-15b	54	812	12.84
ssc-miR-122	114	10	6.2	ssc-miR-17-3p	0	15	2.5
ssc-miR-125b	3230	582	5.47	ssc-miR-185	372	1621	4.27
ssc-miR-126-5p	56	2	5.5	ssc-miR-18a	76	9541	111.06
ssc-miR-1271	23	5	2.2	ssc-miR-194b-5p	3	27	2.85
ssc-miR-128	1275	248	4.98	ssc-miR-195	45	192	3.67
ssc-miR-129b	273	72	3.45	ssc-miR-19a	2590	6339	2.44
ssc-miR-135	622	235	2.58	ssc-miR-215	2	31	3.42
ssc-miR-140-3p	2220	1026	2.15	ssc-miR-2320-5p	50	114	2.07
ssc-miR-142-5p	50	17	2.22	ssc-miR-24-3p	286	10,251	34.67
ssc-miR-148b-5p	20	5	2	ssc-miR-27b-5p	17	63	2.7
ssc-miR-181a	563	147	3.65	ssc-miR-28-5p	82	232	2.63
ssc-miR-181b	349	125	2.66	ssc-miR-301	0	17	2.7
ssc-miR-184	1474	359	4.02	ssc-miR-331-3p	6	27	2.31
ssc-miR-186	476	113	3.95	ssc-miR-361-5p	252	704	2.73
ssc-miR-192	609	102	5.53	ssc-miR-369	0	11	2.1
ssc-miR-194a	2350	541	4.28	ssc-miR-421-3p	3	38	3.7
ssc-miR-196b	2135	984	2.16	ssc-miR-423-5p	845	2493	2.93

Table S2. *Cont.*

miRNA	Reads in Libraries		Fold Change	miRNA	Reads in Libraries		Fold Change
	Infected	Uninfected			Infected	Uninfected	
Up-Regulated				Down-Regulated			
ssc-miR-210	383	123	2.95	ssc-miR-499-5p	47	472	8.46
ssc-miR-221-3p	1292	147	8.29	ssc-miR-505	32	79	2.12
ssc-miR-222	1421	284	4.87	ssc-miR-542-3p	453	1446	3.14
ssc-miR-2483	44	13	2.35	ssc-miR-98	466	2376	5.01
ssc-miR-26a	7323	3198	2.29	ssc-miR-novel-4	3	52	4.77
ssc-miR-29a	10,955	3939	2.78	ssc-miR-novel-10	1	547	50.64
ssc-miR-29c	816	366	2.2	ssc-miR-novel-17	0	47	5.7
ssc-miR-30a-5p	14,296	6320	2.26	ssc-miR-novel-19	1	14	2.18
ssc-miR-30c-5p	523	209	2.43	ssc-miR-novel-61	8	99	6.06
ssc-miR-30c-3p	318	36	7.13	ssc-miR-novel-69	23	58	2.06
ssc-miR-30e-5p	2325	812	2.84	ssc-miR-novel-73	2	24	2.83
ssc-miR-32	284	79	3.3	ssc-miR-novel-99	5	80	6
ssc-miR-323	18	1	2.55	ssc-miR-novel-116	22	57	2.09
ssc-miR-374a-5p	1212	72	14.9	ssc-miR-novel-132	3	19	2.23
ssc-miR-374b-5p	26	6	2.25	ssc-miR-novel-133	4	30	2.86
ssc-miR-378	2697	927	2.89	ssc-miR-novel-134	136	362	2.55
ssc-miR-383	113	38	2.56	ssc-miR-novel-135	7	92	6
ssc-miR-411	107	8	6.5	ssc-miR-novel-150	4	30	2.86
ssc-miR-425-5p	3613	438	8.09	ssc-miR-novel-177	1	58	6.18
ssc-miR-429	768	130	5.56	ssc-miR-novel-193	3	34	3.38
ssc-miR-4331	25	2	2.92	ssc-miR-novel-200	25	199	5.97
ssc-miR-450a	228	5	15.87	ssc-miR-novel-202	0	736	74.37
ssc-miR-450b-5p	182	40	3.84	ssc-miR-novel-212	1	51	5.55
ssc-miR-450c-5p	227	6	14.81	ssc-miR-novel-217	1	16	2.36
ssc-miR-455-5p	17	3	2.08	ssc-miR-novel-218	3	150	12.31
ssc-miR-486	60	8	3.89	ssc-miR-novel-220	1	25	3.18
ssc-miR-489	522	158	3.17	ssc-miR-novel-227	0	28	3.8
ssc-miR-490	149	24	4.68	ssc-miR-novel-266	11	171	8.62
ssc-miR-628	38	3	3.69	ssc-miR-novel-269	37	424	9.23
ssc-miR-708-5p	41	9	2.84	ssc-miR-novel-280	1	20	2.73
ssc-miR-744	102	42	2.15	Down-regulated	376	1773	4.62
ssc-miR-769-5p	176	55	2.86	ssc-let-7d-5p	3	27	2.85
ssc-miR-99a	2165	307	6.86	ssc-miR-1285	7	92	6
ssc-miR-99b	400	232	2.89	ssc-miR-143-3p	6	87	6.06
ssc-miR-novel-36	37	12	2.14	ssc-miR-145-5p	25	62	2.06
ssc-miR-novel-43	3879	1483	2.6	ssc-miR-155-5p	48	156	2.91
ssc-miR-novel-58	25	5	2.33	ssc-miR-15a	54	812	12.84
ssc-miR-novel-66	82	9	4.84	ssc-miR-15b	0	15	2.5
ssc-miR-novel-75	36	0	4.6	ssc-miR-17-3p	372	1621	4.27
ssc-miR-novel-76	192	83	2.17	ssc-miR-185	76	9541	111.06
ssc-miR-novel-153	110	17	4.44	ssc-miR-18a	3	27	2.85
ssc-miR-novel-196	24	7	2	ssc-miR-194b-5p	45	192	3.67

Table S2. *Cont.*

miRNA	Reads in Libraries		Fold Change	miRNA	Reads in Libraries		Fold Change
	Infected	Uninfected			Infected	Uninfected	
Up-Regulated				Down-Regulated			
ssc-miR-novel-199	2694	354	7.43	ssc-miR-195	2590	6339	2.44
ssc-miR-novel-209	5027	1317	3.8	ssc-miR-19a	2	31	3.42
ssc-miR-novel-211	106	9	6.11	ssc-miR-215	50	114	2.07
ssc-miR-novel-261	195	40	4.1	ssc-miR-2320-5p	286	10,251	34.67
ssc-miR-novel-268	239	89	2.52	ssc-miR-24-3p	17	63	2.7
ssc-miR-novel-274	203	69	2.7	ssc-miR-27b-5p	82	232	2.63
ssc-miR-novel-281	1292	147	8.29	ssc-miR-28-5p	0	17	2.7
ssc-miR-novel-291	94	17	3.85	ssc-miR-301	6	27	2.31
ssc-miR-novel-293	71	9	4.26	ssc-miR-331-3p	252	704	2.73
ssc-miR-novel-294	68	16	3	ssc-miR-361-5p	0	11	2.1
ssc-miR-novel-316	55	22	2.03	ssc-miR-369	3	38	3.7
ssc-miR-novel-320	24	7	2	ssc-miR-421-3p	845	2493	2.93
				ssc-miR-423-5p	47	472	8.46
				ssc-miR-499-5p	32	79	2.12
				ssc-miR-505	453	1446	3.14
				ssc-miR-542-3p	466	2376	5.01
				ssc-miR-98	3	52	4.77
				ssc-miR-novel-4	1	547	50.64
				ssc-miR-novel-10	0	47	5.7
				ssc-miR-novel-17	1	14	2.18
				ssc-miR-novel-19	8	99	6.06
				ssc-miR-novel-61	23	58	2.06
				ssc-miR-novel-69	2	24	2.83
				ssc-miR-novel-73	5	80	6
				ssc-miR-novel-99	22	57	2.09
				ssc-miR-novel-116	3	19	2.23
				ssc-miR-novel-132	4	30	2.86
				ssc-miR-novel-133	136	362	2.55
				ssc-miR-novel-134	7	92	6
				ssc-miR-novel-135	4	30	2.86
				ssc-miR-novel-150	1	58	6.18
				ssc-miR-novel-177	3	34	3.38
				ssc-miR-novel-193	25	199	5.97
				ssc-miR-novel-200	0	736	74.37
				ssc-miR-novel-202	1	51	5.55
				ssc-miR-novel-212	1	16	2.36
				ssc-miR-novel-217	3	150	12.31
				ssc-miR-novel-218	1	25	3.18
				ssc-miR-novel-220	0	28	3.8
				ssc-miR-novel-227	11	171	8.62
				ssc-miR-novel-266	37	424	9.23
				ssc-miR-novel-269	1	20	2.73
				ssc-miR-novel-280	376	1773	4.62

Table S2. *Cont.*

miRNA	Reads in Libraries		Fold Change	miRNA	Reads in Libraries		Fold Change
	Infected	Uninfected			Infected	Uninfected	
Up-Regulated				Down-Regulated			
				Down-regulated	3	27	2.85
				ssc-let-7d-5p	7	92	6
				ssc-miR-1285	6	87	6.06
				ssc-miR-143-3p	25	62	2.06
				ssc-miR-145-5p	48	156	2.91
				ssc-miR-155-5p	54	812	12.84
				ssc-miR-15a	0	15	2.5
				ssc-miR-15b	372	1621	4.27
				ssc-miR-17-3p	76	9541	111.06
				ssc-miR-185	3	27	2.85
				ssc-miR-18a	45	192	3.67
				ssc-miR-194b-5p	2590	6339	2.44
				ssc-miR-195	2	31	3.42
				ssc-miR-19a	50	114	2.07
				ssc-miR-215	286	10,251	34.67
				ssc-miR-2320-5p	17	63	2.7
				ssc-miR-24-3p	82	232	2.63
				ssc-miR-27b-5p	0	17	2.7
				ssc-miR-28-5p	6	27	2.31
				ssc-miR-301	252	704	2.73
				ssc-miR-331-3p	0	11	2.1
				ssc-miR-361-5p	3	38	3.7
				ssc-miR-369	845	2493	2.93