

Table S1. Deregulated mature miRNAs in the P group compared with the H group

Mature.ID	ZYFR1	ZYFR2	ZYFR3	ZYFR4	ZYFR5	ZYFR11	ZYFR12	ZYFR13	ZYFR14	ZYFR15	logFC	p value	FDR
hsa-miR-139-5p	1000	690	380	411	730	26	37	34	31	61	-4.07465	3.35E-15	6.06E-13
hsa-miR-23b-3p	1141	1255	854	498	728	76	41	62	36	75	-3.93361	4.31E-15	6.06E-13
hsa-miR-27b-3p	2971	3370	4561	2356	3232	231	385	192	301	387	-3.46623	9.27E-14	8.68E-12
hsa-miR-4732-5p	7	4	9	18	5	69	95	178	105	65	3.784368	4.76E-11	3.34E-09
hsa-miR-182-5p	58	104	137	464	155	1663	1640	2908	2859	5466	3.998338	1.77E-10	9.93E-09
hsa-miR-486-5p	8965	6674	10263	30538	14437	94216	86347	182564	198198	200044	3.425371	3.92E-10	1.83E-08
hsa-miR-125a-5p	256	820	915	385	554	54	91	40	91	53	-3.17459	8.47E-10	3.40E-08
hsa-miR-4433b-3p	141	157	109	81	66	9	34	7	8	7	-3.38837	1.57E-09	5.51E-08
hsa-miR-33a-5p	3421	709	445	254	1488	49	37	39	139	93	-4.13672	6.40E-09	1.89E-07
hsa-miR-3158-3p	8	5	4	3	6	22	34	60	117	53	3.426453	6.73E-09	1.89E-07
hsa-miR-99b-5p	898	535	700	199	1112	106	81	71	122	67	-2.94774	1.34E-08	3.39E-07
hsa-miR-144-5p	82	111	285	430	105	2188	1535	4366	1665	1021	3.423901	1.45E-08	3.39E-07
hsa-miR-4286	1107	179	148	139	139	32	7	17	32	22	-3.94222	1.80E-08	3.89E-07
hsa-miR-1260b	1206	343	170	181	211	54	27	31	37	44	-3.43092	2.75E-08	5.51E-07
hsa-miR-4433b-5p	1729	1462	702	734	581	80	112	31	102	242	-3.19819	4.12E-08	7.72E-07
hsa-miR-106a-5p	216	211	228	527	314	1222	1674	2155	1515	1605	2.454718	8.48E-08	1.49E-06
hsa-miR-584-5p	314	451	131	535	354	69	85	52	42	54	-2.58266	1.38E-07	2.16E-06
hsa-miR-143-3p	1156	1328	1127	2930	508	331	172	62	173	98	-3.07689	1.44E-07	2.16E-06
hsa-miR-331-3p	452	370	228	152	278	48	54	58	69	30	-2.52375	1.46E-07	2.16E-06
hsa-miR-3200-5p	1	2	4	16	11	38	41	138	86	58	3.628975	2.34E-07	3.29E-06
hsa-miR-122-5p	2116	259	6473	1059	39179	531	78	102	282	128	-5.45212	2.59E-07	3.47E-06
hsa-miR-99a-5p	287	627	2664	427	1500	86	47	90	221	96	-3.34058	2.88E-07	3.66E-06

hsa-miR-362-5p	33	38	21	47	24	103	159	171	771	168	3.092618	3.00E-07	3.66E-06
hsa-miR-543	99	68	39	34	71	7	20	10	10	10	-2.58962	4.30E-07	4.98E-06
hsa-miR-1277-5p	68	117	150	84	61	11	17	4	5	25	-2.96647	4.43E-07	4.98E-06
hsa-miR-126-5p	1722	2952	6579	5158	1139	297	754	243	108	574	-3.1544	4.82E-07	5.21E-06
hsa-miR-5010-5p	9	6	2	0	6	30	17	56	37	38	2.73798	5.50E-07	5.72E-06
hsa-miR-199a-5p	4359	3648	1374	933	2883	127	352	101	618	400	-3.0479	5.85E-07	5.87E-06
hsa-miR-495-3p	230	104	60	52	101	15	7	20	2	20	-3.02442	6.54E-07	6.33E-06
hsa-miR-329-3p	238	67	39	21	61	6	7	5	15	12	-3.24991	7.68E-07	7.20E-06
hsa-miR-576-3p	22	9	9	8	10	80	27	88	145	50	2.718081	8.37E-07	7.59E-06
hsa-miR-10b-5p	262	780	1855	320	395	48	71	141	119	86	-2.94997	8.94E-07	7.85E-06
hsa-miR-19a-3p	266	504	530	461	288	610	3645	1390	3250	3291	2.572655	1.60E-06	1.36E-05
hsa-miR-627-5p	21	17	34	37	20	147	98	226	158	48	2.450205	2.43E-06	2.01E-05
hsa-miR-423-5p	1705	1809	1890	2388	2036	13057	10107	6856	11474	3383	2.190959	2.70E-06	2.17E-05
hsa-miR-4732-3p	7	4	11	18	6	34	68	27	83	41	2.623306	4.34E-06	3.39E-05
hsa-miR-222-3p	788	1191	1243	1001	901	309	338	246	227	239	-1.91788	4.46E-06	3.39E-05
hsa-let-7b-5p	4138	4275	3231	8940	6187	28090	24551	29686	26100	11257	2.160691	4.74E-06	3.49E-05
hsa-miR-1285-3p	36	11	9	26	32	122	41	210	135	154	2.528937	4.85E-06	3.49E-05
hsa-miR-30a-5p	194	233	1829	314	415	16	27	29	93	126	-3.34077	5.03E-06	3.53E-05
hsa-miR-625-3p	377	94	99	68	152	18	34	30	20	38	-2.50724	5.27E-06	3.61E-05
hsa-miR-1260a	678	127	94	97	137	43	17	39	25	40	-2.76558	7.39E-06	4.94E-05
hsa-miR-409-3p	138	105	28	29	72	15	7	14	21	8	-2.51809	7.94E-06	5.19E-05
hsa-miR-195-5p	24	43	125	92	42	2	17	7	13	12	-2.68445	8.49E-06	5.34E-05
hsa-miR-625-5p	457	143	185	233	312	30	112	43	28	59	-2.33903	8.54E-06	5.34E-05
hsa-miR-152-3p	731	376	277	223	430	102	95	103	102	106	-2.00432	1.19E-05	7.26E-05
hsa-miR-127-3p	567	217	444	100	170	18	20	14	115	10	-3.08363	1.43E-05	8.50E-05

hsa-miR-550a-5p	13	7	6	10	12	52	34	50	48	27	2.148711	1.45E-05	8.50E-05
hsa-miR-2110	23	31	26	24	39	119	112	109	161	63	1.950514	2.32E-05	0.000133
hsa-miR-199a-3p	21562	5604	2643	2582	13547	1189	653	1460	564	2833	-2.7768	2.58E-05	0.000143
hsa-miR-199b-3p	10779	2798	1321	1289	6768	594	325	729	283	1416	-2.7766	2.59E-05	0.000143
hsa-miR-125b-5p	286	1118	2199	613	1457	122	115	61	286	361	-2.58065	2.88E-05	0.000156
hsa-miR-550a-3-5p	17	8	9	24	16	75	44	78	56	41	2.037056	3.28E-05	0.000174
hsa-miR-450a-5p	166	112	60	79	107	32	14	18	25	39	-2.01141	3.34E-05	0.000174
hsa-miR-224-5p	282	122	73	115	392	33	47	44	37	58	-2.17361	3.55E-05	0.000181
hsa-miR-493-5p	212	53	24	21	95	8	3	17	3	21	-2.85462	3.63E-05	0.000182
hsa-miR-766-3p	213	232	86	92	89	64	7	31	10	18	-2.42256	4.44E-05	0.000219
hsa-miR-145-3p	39	38	122	63	21	19	14	5	7	10	-2.38652	4.58E-05	0.000222
hsa-miR-140-3p	691	666	567	925	521	1785	1538	2919	3034	2086	1.754708	4.77E-05	0.000227
hsa-miR-30a-3p	29	20	39	34	36	6	10	5	10	9	-2.01621	5.59E-05	0.000262
hsa-miR-28-5p	3226	1197	356	388	1817	162	156	415	154	348	-2.4967	5.85E-05	0.000269
hsa-miR-501-5p	3	9	4	21	5	30	74	25	165	10	3.004495	5.99E-05	0.000271
hsa-miR-26a-5p	10013	18440	13260	8353	9469	2807	4619	3583	3055	3992	-1.7216	6.73E-05	0.0003
hsa-miR-20b-5p	204	197	215	710	395	890	1572	2396	572	2342	2.17936	7.09E-05	0.000311
hsa-miR-339-5p	470	332	277	170	156	37	71	25	139	40	-2.18891	7.65E-05	0.000331
hsa-miR-183-5p	14	24	21	165	28	178	331	217	160	624	2.631923	9.76E-05	0.000415
hsa-miR-664a-3p	51	42	39	21	32	4	0	12	8	15	-2.0329	0.000115	0.000481
hsa-miR-651-5p	8	4	15	10	13	20	24	43	47	79	2.139241	0.000116	0.000481
hsa-miR-27a-3p	4803	5667	12206	7013	3573	2785	1589	1459	549	2022	-1.98431	0.00012	0.00049
hsa-miR-340-5p	331	503	595	333	355	73	166	77	40	198	-1.9429	0.000123	0.000493
hsa-miR-96-5p	128	122	198	658	178	386	1292	933	738	3884	2.500699	0.000139	0.00055
hsa-miR-451a	88359	108474	316937	387446	90775	405370	1259025	781413	726813	1005786	2.074564	0.000147	0.000573

hsa-miR-101-3p	4159	1966	2879	4862	3426	8254	10489	10391	9286	16876	1.677511	0.000151	0.000583
hsa-miR-3613-3p	15	34	7	31	13	74	71	67	58	103	1.893875	0.000167	0.000633
hsa-miR-19b-3p	421	1491	1741	1751	468	1942	11899	1958	11502	3614	2.397129	0.000179	0.000669
hsa-miR-326	471	416	180	118	182	96	64	35	108	51	-1.95977	0.000186	0.000689
hsa-miR-378a-3p	546	326	397	370	935	2882	764	1541	3981	1030	1.985172	0.000229	0.000837
hsa-miR-340-3p	52	88	41	34	59	8	14	14	3	27	-2.02685	0.000239	0.00086
hsa-miR-548ay-5p	3	4	6	10	5	9	27	25	19	23	1.996297	0.000253	0.000901
hsa-miR-2355-3p	286	115	51	71	169	42	27	21	45	45	-1.94017	0.000257	0.000902
hsa-miR-1	227	77	32	45	108	11	20	16	46	18	-2.16679	0.00027	0.000935
hsa-miR-744-5p	2450	1524	341	435	2074	393	176	359	397	317	-2.05329	0.000279	0.000954
hsa-let-7g-5p	15515	8108	4210	6531	18651	39147	13752	87700	32857	42863	2.028578	0.00029	0.000983
hsa-miR-7706	7	3	0	5	10	19	10	27	31	21	2.041201	0.000335	0.00112
hsa-miR-320a	5343	5952	6632	3824	7581	17554	17244	15092	47633	6250	1.822837	0.000479	0.001585
hsa-miR-223-3p	33786	35407	12883	23126	23278	7991	7506	7325	7391	13702	-1.5487	0.000556	0.001815
hsa-let-7e-5p	368	222	202	149	479	78	74	169	40	55	-1.76328	0.000624	0.002015
hsa-miR-330-3p	87	95	36	29	149	27	20	27	26	21	-1.72323	0.000731	0.002334
hsa-miR-190a-5p	31	43	45	60	31	164	61	197	118	82	1.602125	0.000768	0.002424
hsa-miR-548o-3p	4	7	7	0	6	11	20	16	13	34	1.858429	0.000796	0.002486
hsa-miR-23a-3p	4812	5706	6407	3690	3504	2624	2012	1493	660	1634	-1.51794	0.001056	0.003262
hsa-miR-548f-3p	4	3	4	5	1	6	10	12	13	13	1.922982	0.001133	0.003461
hsa-miR-5096	6	5	11	76	45	272	527	34	234	7	2.934951	0.001185	0.003554
hsa-miR-155-5p	48	71	45	66	70	22	37	21	9	20	-1.53925	0.001189	0.003554
hsa-miR-93-3p	63	105	36	55	73	154	139	110	568	153	1.744192	0.001247	0.00369
hsa-miR-7-5p	67	66	449	45	91	331	436	854	602	543	1.956699	0.001399	0.004083
hsa-miR-106b-5p	6765	2505	2997	6306	5752	10332	6529	23546	9398	26176	1.64341	0.00141	0.004083

hsa-miR-221-3p	4569	6085	4984	3470	5098	2793	1677	1208	2337	1233	-1.38843	0.001464	0.004198
hsa-miR-378i	12	11	9	8	19	57	27	27	77	15	1.724176	0.00153	0.004331
hsa-miR-142-3p	13985	9699	7721	5341	10650	2252	4791	3395	4826	1626	-1.48917	0.001541	0.004331
hsa-miR-93-5p	1097	1803	1490	2865	2374	4676	6844	4603	4969	3723	1.366115	0.001795	0.004993
hsa-miR-942-5p	29	22	9	29	22	42	71	58	50	85	1.455435	0.001879	0.00513
hsa-miR-185-5p	1149	2305	829	3226	783	4562	6614	3324	9476	2474	1.673873	0.00188	0.00513
hsa-miR-342-5p	16	22	19	18	34	79	51	109	43	35	1.528156	0.001932	0.005213
hsa-miR-1307-3p	246	260	109	194	190	70	47	23	132	11	-1.83121	0.001948	0.005213
hsa-miR-133a-3p	80	117	114	71	53	5	17	6	71	9	-2.03541	0.002211	0.005861
hsa-miR-378c	93	17	39	37	107	282	64	164	464	95	1.860613	0.002508	0.006588
hsa-miR-941	50	15	13	31	27	90	41	63	105	86	1.499757	0.002594	0.006749
hsa-miR-22-5p	1532	572	545	404	893	357	203	352	164	370	-1.4462	0.002971	0.007658
hsa-miR-181c-5p	38	121	62	29	70	10	24	13	37	26	-1.58546	0.003059	0.007813
hsa-miR-17-5p	2998	3550	2589	4327	4497	7212	9552	11589	5060	9485	1.25607	0.003318	0.008373
hsa-miR-16-2-3p	324	268	453	598	236	785	1657	391	1975	604	1.528502	0.003337	0.008373
hsa-miR-550a-3p	51	28	21	37	24	48	64	102	104	92	1.365628	0.003519	0.008751
hsa-miR-486-3p	350	92	62	367	257	667	423	1156	388	772	1.59814	0.003638	0.008968
hsa-miR-3200-3p	6	3	9	16	3	13	14	18	31	18	1.664293	0.003863	0.009439
hsa-miR-1908-5p	76	26	7	29	24	10	14	8	17	6	-1.66259	0.004186	0.010141
hsa-miR-20a-5p	2175	2127	1832	3229	4121	3501	8392	11193	1939	14135	1.53827	0.004373	0.010502
hsa-miR-150-5p	354	1128	1215	1019	539	1689	2756	2227	1892	1894	1.298205	0.004758	0.011331
hsa-miR-574-3p	601	270	118	189	249	152	54	119	84	121	-1.42046	0.004909	0.011592
hsa-miR-503-5p	80	33	22	29	36	21	17	9	9	19	-1.4429	0.00512	0.011988
hsa-miR-215-5p	22	12	153	16	19	9	7	13	11	17	-1.87631	0.005351	0.012426
hsa-miR-296-5p	21	10	9	18	8	35	34	33	50	19	1.400461	0.005725	0.013186

hsa-miR-146a-5p	821	1528	752	700	492	238	514	173	555	176	-1.38133	0.006025	0.013764
hsa-miR-92b-3p	67	24	84	94	56	29	14	20	8	42	-1.45876	0.006705	0.015194
hsa-miR-106b-3p	789	413	324	841	839	1365	832	1372	2616	1544	1.270319	0.00705	0.015849
hsa-miR-377-3p	28	54	58	16	20	8	17	0	18	2	-2.09721	0.007425	0.016491
hsa-miR-145-5p	105	207	859	262	73	116	193	17	52	21	-1.94387	0.007453	0.016491
hsa-miR-624-5p	44	21	47	66	31	56	105	132	51	163	1.320345	0.008356	0.018345
hsa-miR-18a-3p	25	24	22	52	12	38	98	36	90	74	1.333661	0.00937	0.02041
hsa-miR-502-3p	68	45	114	102	53	147	88	166	249	200	1.18582	0.011033	0.023847
hsa-miR-1307-5p	73	96	178	37	40	28	41	7	59	18	-1.52512	0.011126	0.023865
hsa-miR-1290	41	21	30	31	262	44	37	12	12	5	-1.85907	0.011361	0.024185
hsa-miR-126-3p	43461	26554	14409	14957	37374	7416	7892	13779	18715	12193	-1.18869	0.013052	0.027576
hsa-miR-425-3p	153	130	60	73	89	53	61	33	60	28	-1.15627	0.013414	0.02813
hsa-miR-532-3p	94	52	80	79	50	143	91	184	200	127	1.088781	0.013687	0.02849
hsa-miR-199b-5p	39	43	45	100	34	23	44	17	9	20	-1.25493	0.01456	0.030084
hsa-miR-140-5p	142	188	137	113	143	57	122	59	48	68	-1.06937	0.014784	0.030322
hsa-miR-197-3p	858	496	183	225	211	289	78	133	77	200	-1.34154	0.015478	0.031517
hsa-miR-3613-5p	630	251	159	338	418	491	345	1749	301	1956	1.430296	0.015857	0.032056
hsa-miR-181a-2-3p	17	29	37	10	19	18	0	10	11	5	-1.30709	0.0177	0.035527
hsa-miR-28-3p	555	540	109	149	464	182	98	113	231	149	-1.23708	0.017917	0.035707
hsa-miR-106a-3p	16	6	21	18	4	16	34	19	28	57	1.358865	0.018545	0.036698
hsa-miR-29a-3p	4488	3079	7264	2257	3755	1778	1129	2431	938	3155	-1.14319	0.01897	0.037277
hsa-miR-130a-3p	707	1168	1243	1169	667	390	1018	297	297	273	-1.13017	0.020263	0.039541
hsa-miR-1301-3p	65	134	67	26	111	35	41	34	55	23	-1.14453	0.020765	0.040241
hsa-miR-500a-3p	49	34	122	86	32	143	54	131	259	126	1.173304	0.02534	0.048771
hsa-miR-484	5215	4308	2151	3918	3525	10851	4977	7678	4463	10268	1.000115	0.025988	0.049678

hsa-miR-151a-5p	18438	7848	2566	3069	14215	2012	872	7326	761	5356	-1.49818	0.026887	0.051049
hsa-miR-16-5p	7659	16844	37561	68663	13452	40900	166289	75687	21180	72258	1.384132	0.027408	0.051688
hsa-miR-151a-3p	5964	3622	1082	1255	4855	911	781	1906	1261	2450	-1.19845	0.028355	0.053118
hsa-let-7a-5p	18695	10501	6297	9296	22430	40104	9630	86816	11627	19231	1.316426	0.028786	0.053568
hsa-miR-629-5p	16	37	45	84	21	168	112	82	50	42	1.19544	0.029539	0.054608
hsa-miR-1277-3p	127	95	41	8	79	8	10	25	6	71	-1.50294	0.03054	0.055939
hsa-miR-18a-5p	620	371	432	1106	592	779	1298	1704	729	1789	1.016043	0.030657	0.055939
hsa-let-7i-5p	5063	4753	3408	7047	6565	10221	10637	11867	10008	7068	0.891972	0.032133	0.05807
hsa-miR-320d	14	3	43	10	93	22	10	7	14	2	-1.59962	0.032376	0.05807
hsa-miR-29b-3p	857	692	702	736	519	575	1413	1437	762	3054	1.046661	0.032445	0.05807
hsa-miR-361-5p	128	146	185	136	133	80	95	73	21	97	-0.99284	0.033742	0.059749
hsa-miR-338-3p	60	180	167	92	98	23	101	14	98	16	-1.29037	0.033808	0.059749
hsa-miR-424-3p	79	28	34	73	40	53	14	18	10	19	-1.13116	0.035803	0.062878
hsa-miR-425-5p	1101	2389	1509	1905	1048	2500	2614	2594	4887	2484	0.923427	0.03611	0.063024
hsa-miR-500a-5p	3	5	11	13	3	14	30	10	8	12	1.22037	0.037967	0.065857
hsa-miR-500b-5p	3	4	11	13	3	14	30	10	7	12	1.213246	0.041323	0.071238
hsa-miR-21-5p	45571	26909	33229	23331	39594	10575	14282	18260	7501	35419	-0.9708	0.044617	0.076448
hsa-miR-1180-3p	10	12	28	71	43	74	57	53	116	40	1.110643	0.048776	0.083067
hsa-miR-192-5p	474	261	962	563	2295	1232	700	2539	1908	3858	1.167988	0.050254	0.085068
hsa-miR-194-5p	209	84	358	189	443	466	240	1249	339	398	1.074314	0.051667	0.086936
hsa-miR-151b	448	132	159	236	298	262	132	1470	108	1114	1.27845	0.05305	0.088732
hsa-miR-532-5p	53	75	109	204	71	179	203	154	164	238	0.900237	0.05387	0.08957
hsa-miR-328-3p	330	369	157	134	166	226	95	55	142	77	-0.96434	0.055944	0.092473
hsa-miR-24-3p	5419	6106	4004	3758	4871	5400	1346	2259	2227	1930	-0.87577	0.058395	0.095959
hsa-miR-628-3p	19	33	30	37	26	19	17	17	2	16	-0.97744	0.059745	0.097607
hsa-miR-25-3p	1650	2100	3762	7608	2092	8313	7101	6091	3833	7436	0.929904	0.060909	0.098934

hsa-miR-1246	11	11	13	10	240	17	41	18	24	9	-1.46887	0.068453	0.110548
hsa-miR-454-3p	39	68	45	29	66	42	189	137	27	103	0.980283	0.069138	0.111016
hsa-let-7c-5p	112	149	189	136	258	179	64	100	75	41	-0.87323	0.071927	0.114839
hsa-miR-30e-5p	1608	2284	4472	2448	2558	2419	4416	4769	5439	6197	0.798087	0.074472	0.11823
hsa-miR-7976	19	8	2	16	11	20	7	16	34	28	0.956346	0.07572	0.119535
hsa-miR-505-3p	145	209	170	110	136	158	57	41	82	99	-0.81603	0.080811	0.12686
hsa-miR-548d-5p	25	27	11	24	24	24	41	30	50	53	0.810488	0.081848	0.127337
hsa-miR-1285-5p	51	24	21	225	286	717	348	82	326	44	1.32293	0.082021	0.127337
hsa-miR-24-2-5p	231	290	37	47	228	73	41	78	153	74	-0.99814	0.082892	0.127822
hsa-let-7i-3p	51	72	374	168	31	77	128	29	59	33	-1.10735	0.083244	0.127822
hsa-miR-128-3p	1269	661	545	411	766	493	189	412	167	741	-0.86419	0.087944	0.13419
hsa-miR-15b-5p	8693	4804	6055	10635	7708	7365	8747	23186	2410	33727	0.99341	0.088346	0.13419
hsa-miR-499a-5p	40	12	71	13	40	22	10	15	12	30	-0.9127	0.09462	0.142948
hsa-miR-501-3p	27	35	82	79	27	112	85	58	113	60	0.820382	0.095391	0.143341
hsa-miR-221-5p	14	27	17	5	21	9	7	12	0	14	-0.97777	0.097111	0.144383
hsa-miR-181b-5p	104	119	178	115	206	142	78	73	89	44	-0.76009	0.097112	0.144383
hsa-miR-98-5p	402	433	294	388	391	201	389	241	167	183	-0.70167	0.098016	0.1444
hsa-miR-148b-5p	31	31	9	10	48	20	20	60	70	81	0.913154	0.098151	0.1444
hsa-miR-30c-5p	2709	2945	1765	1266	2119	2347	1674	4816	2420	7755	0.815307	0.100535	0.147137
hsa-miR-103a-2-5p	23	30	19	18	18	25	37	15	105	26	0.897564	0.103175	0.150218
hsa-miR-363-3p	227	403	644	1717	173	961	1711	826	1649	886	0.934846	0.106646	0.154471
hsa-miR-374b-5p	678	839	767	545	533	174	497	477	32	587	-0.9302	0.108903	0.156933
hsa-miR-185-3p	188	95	41	58	104	27	37	39	118	54	-0.83341	0.118	0.169173
hsa-let-7f-5p	19376	10062	5320	6033	21307	24517	6347	63346	6534	17482	0.9289	0.137496	0.196124
hsa-miR-589-5p	59	24	21	31	15	56	17	37	81	53	0.719068	0.163241	0.23167
hsa-miR-132-3p	7	25	66	31	8	14	41	9	0	8	-1.04662	0.164105	0.231726

hsa-miR-590-5p	43	21	13	29	33	23	78	34	42	51	0.652125	0.183573	0.257921
hsa-miR-223-5p	69	54	39	73	83	162	85	92	70	69	0.586818	0.191581	0.267832
hsa-miR-301a-3p	44	124	97	79	48	41	74	43	47	60	-0.5829	0.207586	0.28877
hsa-miR-210-3p	61	59	122	165	80	193	142	55	411	24	0.766648	0.215738	0.298633
hsa-let-7d-5p	9845	4571	2265	2883	11272	11823	2242	27276	3934	6845	0.757189	0.232132	0.31975
hsa-miR-22-3p	8753	16905	29158	16993	7753	24577	29545	10149	52327	7913	0.646137	0.244627	0.334645
hsa-miR-29b-2-5p	6	13	15	16	8	12	14	15	37	9	0.630947	0.245327	0.334645
hsa-miR-15a-5p	4084	4558	13858	15877	4749	9204	19161	14701	4939	16938	0.590821	0.265403	0.360281
hsa-miR-17-3p	145	180	193	359	144	179	372	136	669	163	0.575288	0.268267	0.361773
hsa-miR-652-3p	2490	1740	788	1496	1870	1202	1018	1387	1449	969	-0.47731	0.269703	0.361773
hsa-miR-378d	22	2	4	5	12	15	10	12	31	9	0.689316	0.270364	0.361773
hsa-miR-30d-5p	1959	3056	3356	1793	2336	2026	2363	4382	4172	4292	0.463748	0.285102	0.379685
hsa-miR-144-3p	1601	2877	10042	25147	1461	15097	26025	8436	9763	7689	0.704465	0.30138	0.39947
hsa-miR-628-5p	38	17	7	8	24	9	10	13	10	24	-0.54503	0.309336	0.408091
hsa-miR-193a-5p	41	24	168	60	267	496	74	194	127	27	0.709334	0.314173	0.412535
hsa-miR-320c	58	22	189	24	223	92	44	52	121	19	-0.65266	0.318773	0.416629
hsa-miR-3615	93	53	165	139	79	257	142	82	228	44	0.519652	0.326393	0.424613
hsa-miR-100-5p	166	87	1190	286	421	196	64	84	336	665	-0.66943	0.329353	0.42649
hsa-miR-26b-5p	4139	6024	3989	3428	4330	2841	3249	4885	2311	3437	-0.38975	0.348227	0.448862
hsa-miR-548e-3p	25	22	11	5	16	15	10	29	27	30	0.449064	0.366966	0.470856
hsa-miR-339-3p	318	190	155	142	192	411	118	231	372	191	0.409714	0.377923	0.482711
hsa-miR-335-5p	944	821	1134	280	1054	796	818	1540	653	1826	0.412319	0.395279	0.501713
hsa-miR-103a-3p	7334	10205	6918	8122	11356	10115	14593	10825	11369	8857	0.343658	0.396371	0.501713
hsa-miR-146b-5p	86	214	62	52	136	56	112	91	128	25	-0.4453	0.403521	0.508473
hsa-miR-15b-3p	200	124	168	314	161	168	284	249	108	451	0.389312	0.415728	0.521516
hsa-miR-148a-5p	41	11	6	8	18	19	0	9	26	7	-0.47868	0.436682	0.545367

hsa-miR-32-5p	294	266	1215	755	249	193	592	299	26	837	-0.51132	0.449022	0.558297
hsa-miR-19b-1-5p	16	17	7	5	19	7	10	15	43	16	0.409192	0.459919	0.568902
hsa-miR-191-5p	3341	9034	4238	3821	3133	6875	5839	6098	6375	4328	0.324529	0.4616	0.568902
hsa-miR-3173-5p	15	8	7	8	11	12	7	4	32	12	0.408713	0.478852	0.587587
hsa-miR-590-3p	74	76	67	63	49	18	91	41	12	94	-0.38133	0.484693	0.590318
hsa-miR-362-3p	10	5	99	37	5	20	34	21	6	25	-0.51142	0.485279	0.590318
hsa-miR-196b-5p	6	25	22	13	18	12	20	43	13	19	0.371961	0.488505	0.59168
hsa-miR-148b-3p	2112	1913	1149	1305	1724	964	1315	1010	850	2503	-0.30483	0.496632	0.598943
hsa-miR-877-5p	45	23	36	31	80	55	27	30	36	26	-0.31835	0.50932	0.61162
hsa-miR-142-5p	14751	8720	6648	7013	7287	9690	5491	16566	4360	18506	0.298147	0.545304	0.652044
hsa-let-7d-3p	1002	581	887	653	611	1018	254	464	258	1041	-0.29569	0.551548	0.656716
hsa-miR-769-5p	41	37	30	34	16	25	27	16	54	7	-0.31584	0.560803	0.664919
hsa-miR-30e-3p	451	360	174	165	470	183	152	456	249	319	-0.25387	0.596881	0.704721
hsa-miR-361-3p	67	109	51	58	85	49	91	66	176	61	0.241148	0.613478	0.721286
hsa-miR-542-3p	27	10	9	8	15	33	0	15	31	6	0.301098	0.618184	0.722639
hsa-miR-148a-3p	4347	1964	4193	2673	4718	2884	2536	2323	2092	5480	-0.2243	0.619772	0.722639
hsa-miR-18b-5p	29	15	41	113	24	48	51	65	18	70	0.255552	0.65062	0.755472
hsa-miR-545-3p	7	7	19	18	5	6	10	8	5	12	-0.23946	0.666904	0.771194
hsa-miR-574-5p	113	48	73	126	94	150	152	76	122	25	0.20281	0.692969	0.79805
hsa-miR-1537-3p	7	11	7	10	7	8	17	2	12	5	-0.21827	0.711466	0.811988
hsa-miR-378a-5p	14	11	21	10	9	10	14	7	36	9	0.201869	0.715568	0.811988
hsa-miR-193a-3p	3	3	21	18	17	11	10	10	7	10	-0.21821	0.716503	0.811988
hsa-miR-345-5p	53	59	133	107	56	146	68	34	88	18	-0.19891	0.71917	0.811988
hsa-miR-92a-3p	3252	4709	16602	18283	3842	16131	17914	6108	6617	7028	0.204593	0.719519	0.811988
hsa-miR-450b-5p	12	10	49	16	3	23	14	12	8	39	0.221885	0.728263	0.818568
hsa-miR-505-5p	48	28	13	34	61	28	17	81	29	51	0.178652	0.732705	0.82028

hsa-miR-181a-5p	865	1472	1666	818	1850	1782	1596	1107	1922	950	0.140371	0.749018	0.832929
hsa-miR-101-5p	10	17	51	86	11	41	57	28	22	43	0.191386	0.749933	0.832929
hsa-miR-874-3p	8	31	49	24	11	11	41	3	47	8	-0.20779	0.762636	0.843704
hsa-miR-374a-3p	46	44	30	16	35	11	17	39	19	65	-0.15557	0.769869	0.848365
hsa-miR-660-5p	57	109	726	275	75	197	500	176	278	251	0.176317	0.777023	0.852904
hsa-miR-186-5p	452	1064	773	548	446	299	906	327	1113	392	-0.11603	0.815419	0.891567
hsa-miR-7-1-3p	48	37	17	16	17	30	17	37	9	32	-0.10712	0.836847	0.911449
hsa-miR-30b-5p	3652	3271	1842	1103	2288	1609	1336	2481	2503	3513	-0.0874	0.850662	0.921962
hsa-miR-421	29	43	32	71	24	34	98	32	19	35	0.095475	0.853061	0.921962
hsa-miR-320b	111	86	676	186	363	320	355	203	567	85	0.105923	0.859693	0.922664
hsa-miR-29c-3p	1744	1114	4726	2416	1372	735	1836	1484	851	5698	-0.10002	0.864666	0.922664
hsa-miR-107	772	770	1584	2369	848	1688	1735	949	951	670	-0.08145	0.865507	0.922664
hsa-miR-324-5p	104	202	80	215	82	115	223	82	172	59	-0.08366	0.866844	0.922664
hsa-miR-29c-5p	96	77	60	66	54	35	51	61	120	70	-0.06869	0.880987	0.93214
hsa-miR-331-5p	9	17	15	26	7	11	14	10	17	14	-0.07613	0.882382	0.93214
hsa-miR-1306-5p	41	24	15	29	18	30	17	27	20	35	0.064017	0.891753	0.938197
hsa-let-7b-3p	41	27	131	52	53	58	24	50	53	125	0.069165	0.89642	0.938197
hsa-miR-338-5p	19	25	54	13	17	55	37	17	2	13	-0.07712	0.903054	0.938197
hsa-let-7a-3p	29	36	120	37	22	28	64	39	12	106	0.071721	0.904353	0.938197
hsa-miR-342-3p	245	767	464	393	463	421	524	590	285	431	-0.05207	0.906273	0.938197
hsa-miR-374a-5p	1077	1037	975	841	863	521	954	1856	371	1272	0.053919	0.909761	0.938197
hsa-miR-424-5p	459	613	1864	1334	347	1469	1021	509	595	835	-0.05777	0.912358	0.938197
hsa-miR-423-3p	5601	4636	1065	1048	6123	6056	1718	3124	4057	2810	-0.05674	0.918798	0.938197
hsa-miR-20a-3p	59	54	28	18	65	24	34	71	36	55	-0.04854	0.920817	0.938197
hsa-miR-664a-5p	12	17	15	10	19	20	17	20	15	6	0.050067	0.921503	0.938197
hsa-miR-324-3p	114	124	124	228	88	117	169	64	297	53	0.047837	0.926655	0.940037

hsa-miR-10a-5p	264	449	1413	165	1822	62	2296	778	438	396	-0.05429	0.941482	0.951642
hsa-miR-4508	35	4	4	97	6	28	10	23	78	2	0.019929	0.981159	0.988192
hsa-miR-130b-3p	105	143	176	254	83	258	247	113	89	59	0.007523	0.988279	0.991809
hsa-miR-1287-5p	16	8	7	10	15	10	3	6	13	21	0.004655	0.99292	0.99292

Table S2. Novel miRNAs found in the H group

name	chr	start	stop	ReadCount
novel_miRNA-1	chr1	1255386	1255435	8
novel_miRNA-2	chr1	2843651	2843712	7
novel_miRNA-3	chr1	7253546	7253604	5
novel_miRNA-4	chr1	16821369	16821454	7
novel_miRNA-5	chr1	22989957	22990036	9
novel_miRNA-6	chr1	37034364	37034419	9
novel_miRNA-7	chr1	43140530	43140581	10
novel_miRNA-8	chr1	108469543	108469618	51
novel_miRNA-9	chr1	150207085	150207139	12
novel_miRNA-10	chr1	151114283	151114359	258
novel_miRNA-11	chr1	155166191	155166240	8
novel_miRNA-12	chr1	161619817	161619909	44
novel_miRNA-13	chr1	175937532	175937596	646
novel_miRNA-14	chr1	182360849	182360925	21
novel_miRNA-15	chr1	183275644	183275707	89
novel_miRNA-16	chr1	217807622	217807672	12
novel_miRNA-17	chr1	226033875	226033938	7
novel_miRNA-18	chr1	248160302	248160397	3650
novel_miRNA-19	chr2	16612738	16612800	7
novel_miRNA-20	chr2	27304884	27304952	7
novel_miRNA-21	chr2	33498399	33498463	20
novel_miRNA-22	chr2	34957556	34957616	8
novel_miRNA-23	chr2	74766442	74766500	40
novel_miRNA-24	chr2	95725224	95725271	7
novel_miRNA-25	chr2	96330605	96330678	13
novel_miRNA-26	chr2	121983431	121983532	81
novel_miRNA-27	chr2	121983481	121983532	81
novel_miRNA-28	chr2	139230904	139230945	11
novel_miRNA-29	chr2	144884032	144884072	15
novel_miRNA-30	chr2	161314276	161314357	79
novel_miRNA-31	chr2	172374000	172374057	13
novel_miRNA-32	chr2	187249950	187250025	8
novel_miRNA-33	chr2	232321163	232321230	162
novel_miRNA-34	chr2	234197384	234197447	8
novel_miRNA-35	chr2	234376839	234376891	8
novel_miRNA-36	chr2	235914021	235914059	461
novel_miRNA-37	chr2	241175999	241176056	7
novel_miRNA-38	chr3	13673754	13673799	147
novel_miRNA-39	chr3	14317516	14317594	9

novel_miRNA-40	chr3	14436197	14436260	997
novel_miRNA-41	chr3	31002286	31002366	13
novel_miRNA-42	chr3	48050932	48050997	17
novel_miRNA-43	chr3	48717661	48717717	110
novel_miRNA-44	chr3	49058066	49058130	235
novel_miRNA-45	chr3	50660432	50660498	7
novel_miRNA-46	chr3	52427970	52428031	27
novel_miRNA-47	chr3	52557373	52557443	11
novel_miRNA-48	chr3	73160220	73160258	4755
novel_miRNA-49	chr3	119528336	119528405	7
novel_miRNA-50	chr3	121640960	121641017	22
novel_miRNA-51	chr3	128542493	128542566	14
novel_miRNA-52	chr3	137190592	137190681	11
novel_miRNA-53	chr3	143501966	143502022	6
novel_miRNA-54	chr3	149953787	149953855	18
novel_miRNA-55	chr3	151077884	151077941	10
novel_miRNA-56	chr3	162184396	162184443	9
novel_miRNA-57	chr3	186505088	186505154	86
novel_miRNA-58	chr4	15004757	15004815	6
novel_miRNA-59	chr4	48222138	48222200	17
novel_miRNA-60	chr4	82552003	82552078	11
novel_miRNA-61	chr4	89064006	89064088	348
novel_miRNA-62	chr4	105885422	105885483	9
novel_miRNA-63	chr4	140516566	140516634	8
novel_miRNA-64	chr4	190156506	190156608	19
novel_miRNA-65	chr5	20260265	20260318	7
novel_miRNA-66	chr5	41475747	41475791	11
novel_miRNA-67	chr5	51820193	51820239	16
novel_miRNA-68	chr5	61500705	61500783	10
novel_miRNA-69	chr5	62866793	62866879	8
novel_miRNA-70	chr5	108084333	108084394	11
novel_miRNA-71	chr5	134261482	134261529	9
novel_miRNA-72	chr5	141774090	141774169	18
novel_miRNA-73	chr5	150143889	150143954	7
novel_miRNA-74	chr5	156936405	156936459	5432
novel_miRNA-75	chr5	174374850	174374911	10
novel_miRNA-76	chr5	176766350	176766412	4
novel_miRNA-77	chr5	176932110	176932198	17
novel_miRNA-78	chr5	176941818	176941906	12, 12
novel_miRNA-79	chr5	178866436	178866482	9
novel_miRNA-80	chr5	179264113	179264161	9
novel_miRNA-81	chr6	31236850	31236940	4
novel_miRNA-82	chr6	31671018	31671068	12

novel_miRNA-83	chr6	31746601	31746682	11729
novel_miRNA-84	chr6	41191591	41191700	21
novel_miRNA-85	chr6	41191630	41191700	21
novel_miRNA-86	chr6	41308672	41308727	11
novel_miRNA-87	chr6	70647726	70647803	8
novel_miRNA-88	chr6	103926417	103926500	10
novel_miRNA-89	chr6	131375689	131375757	596
novel_miRNA-90	chr6	133138426	133138485	124
novel_miRNA-91	chr6	136010017	136010093	9
novel_miRNA-92	chr6	136010074	136010157	12
novel_miRNA-93	chr6	137232265	137232316	10
novel_miRNA-94	chr6	162186243	162186318	14
novel_miRNA-95	chr6	169331653	169331693	33214
novel_miRNA-96	chr7	20446082	20446161	96
novel_miRNA-97	chr7	33968980	33969033	8
novel_miRNA-98	chr7	97659400	97659485	36
novel_miRNA-99	chr7	98988740	98988802	11
novel_miRNA-100	chr7	101007097	101007160	61
novel_miRNA-101	chr7	115543177	115543241	3
novel_miRNA-102	chr7	134849582	134849626	9
novel_miRNA-103	chr7	138728845	138728903	47
novel_miRNA-104	chr7	140306488	140306559	9
novel_miRNA-105	chr7	142157355	142157408	953
novel_miRNA-106	chr8	16233399	16233472	9
novel_miRNA-107	chr8	27198619	27198691	8
novel_miRNA-108	chr8	39920028	39920106	8
novel_miRNA-109	chr8	41059078	41059153	106
novel_miRNA-110	chr8	56821958	56822010	83
novel_miRNA-111	chr8	62251906	62251994	9
novel_miRNA-112	chr8	73066748	73066836	8
novel_miRNA-113	chr8	74916522	74916587	10
novel_miRNA-114	chr8	92732644	92732689	11
novel_miRNA-115	chr8	99405893	99405954	11
novel_miRNA-116	chr8	124056896	124056975	1463
novel_miRNA-117	chr8	125628997	125629080	26
novel_miRNA-118	chr8	145661010	145661069	7
novel_miRNA-119	chr9	14978672	14978732	7
novel_miRNA-120	chr9	44313824	44313895	9
novel_miRNA-121	chr9	46775975	46776046	9
novel_miRNA-122	chr9	89037927	89037972	2828
novel_miRNA-123	chr9	96182741	96182793	10
novel_miRNA-124	chr9	97904679	97904746	1000
novel_miRNA-125	chr9	114938073	114938156	5

novel_miRNA-126	chr9	132175588	132175666	6
novel_miRNA-127	chr9	135044733	135044773	10
novel_miRNA-128	chr9	138844548	138844611	9
novel_miRNA-129	chr9	139066263	139066330	6
novel_miRNA-130	chr9	139066309	139066384	6
novel_miRNA-131	chr9	139066406	139066527	6, 7
novel_miRNA-132	chr9	140246219	140246264	12
novel_miRNA-133	chr10	7765247	7765335	7
novel_miRNA-134	chr10	24234956	24235036	11
novel_miRNA-135	chr10	31840034	31840080	11
novel_miRNA-136	chr10	37690800	37690874	13
novel_miRNA-137	chr10	47161406	47161452	9
novel_miRNA-138	chr10	47226509	47226598	13
novel_miRNA-139	chr10	47759571	47759617	9
novel_miRNA-140	chr10	48202753	48202842	13
novel_miRNA-141	chr10	48267899	48267945	9
novel_miRNA-142	chr10	53622421	53622499	8
novel_miRNA-143	chr10	82842891	82842940	8
novel_miRNA-144	chr10	87137702	87137760	11
novel_miRNA-145	chr10	88432009	88432095	11
novel_miRNA-146	chr11	17453994	17454073	286079
novel_miRNA-147	chr11	33864240	33864304	10
novel_miRNA-148	chr11	44254689	44254754	4
novel_miRNA-149	chr11	46079202	46079283	10
novel_miRNA-150	chr11	46400484	46400542	8
novel_miRNA-151	chr11	62360191	62360235	94
novel_miRNA-152	chr11	62609165	62609212	2519
novel_miRNA-153	chr11	64507280	64507353	51
novel_miRNA-154	chr11	75037847	75037896	109
novel_miRNA-155	chr11	76156409	76156473	9
novel_miRNA-156	chr11	93463678	93463743	261
novel_miRNA-157	chr11	118965340	118965423	8
novel_miRNA-158	chr12	3033374	3033435	11
novel_miRNA-159	chr12	7052999	7053059	148
novel_miRNA-160	chr12	25255552	25255624	10
novel_miRNA-161	chr12	69593921	69593965	13
novel_miRNA-162	chr12	71892247	71892291	59
novel_miRNA-163	chr12	93335965	93336060	1559
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novel_miRNA-165	chr12	96078672	96078758	3
novel_miRNA-166	chr12	109181600	109181646	41
novel_miRNA-167	chr12	111162963	111163047	12
novel_miRNA-168	chr12	116429176	116429238	7

novel_miRNA-169	chr12	120765833	120765877	13
novel_miRNA-170	chr13	27259471	27259537	24
novel_miRNA-171	chr13	66862679	66862752	9
novel_miRNA-172	chr13	84480486	84480565	8
novel_miRNA-173	chr13	84801579	84801626	10
novel_miRNA-174	chr14	19573521	19573575	10
novel_miRNA-175	chr14	24800530	24800608	11
novel_miRNA-176	chr14	28906327	28906369	377
novel_miRNA-177	chr14	46517840	46517909	42
novel_miRNA-178	chr14	81799457	81799525	11
novel_miRNA-179	chr14	92325358	92325419	6
novel_miRNA-180	chr14	93227793	93227836	22
novel_miRNA-181	chr14	93402615	93402657	10
novel_miRNA-182	chr14	106352860	106352932	9
novel_miRNA-183	chr15	20309663	20309726	8
novel_miRNA-184	chr15	21261871	21261939	9
novel_miRNA-185	chr15	44281062	44281144	16
novel_miRNA-186	chr15	57884506	57884551	8
novel_miRNA-187	chr15	72468352	72468412	7
novel_miRNA-188	chr15	75275633	75275787	12265
novel_miRNA-189	chr15	75275693	75275787	12265
novel_miRNA-190	chr15	78199112	78199182	8
novel_miRNA-191	chr15	78199164	78199230	8
novel_miRNA-192	chr15	85217760	85217837	18
novel_miRNA-193	chr16	2017057	2017113	8
novel_miRNA-194	chr16	3141998	3142064	8
novel_miRNA-195	chr16	4029747	4029815	6
novel_miRNA-196	chr16	7322386	7322452	8
novel_miRNA-197	chr16	22834826	22834904	8
novel_miRNA-198	chr16	29021436	29021493	15
novel_miRNA-199	chr16	33965517	33965580	486
novel_miRNA-200	chr16	57871724	57871788	10
novel_miRNA-201	chr16	66362337	66362410	7
novel_miRNA-202	chr16	67238316	67238352	8
novel_miRNA-203	chr16	72089401	72089448	869
novel_miRNA-204	chr16	75544832	75544910	30
novel_miRNA-205	chr16	80416419	80416503	12
novel_miRNA-206	chr16	87704594	87704681	8
novel_miRNA-207	chr17	915340	915394	8
novel_miRNA-208	chr17	16751344	16751417	8
novel_miRNA-209	chr17	17140423	17140482	7
novel_miRNA-210	chr17	17739749	17739804	6
novel_miRNA-211	chr17	18965379	18965442	30

novel_miRNA-212	chr17	18967232	18967296	30
novel_miRNA-213	chr17	19015732	19015796	160
novel_miRNA-214	chr17	19091483	19091546	30
novel_miRNA-215	chr17	19093341	19093405	160
novel_miRNA-216	chr17	20423018	20423091	8
novel_miRNA-217	chr17	31555853	31555923	29
novel_miRNA-218	chr17	32731805	32731891	8
novel_miRNA-219	chr17	34829041	34829085	8
novel_miRNA-220	chr17	36084264	36084312	9
novel_miRNA-221	chr17	39782975	39783048	8
novel_miRNA-222	chr17	42344333	42344390	20
novel_miRNA-223	chr17	75085389	75085475	11
novel_miRNA-224	chr17	75675458	75675512	41
novel_miRNA-225	chr17	76286322	76286376	7
novel_miRNA-226	chr17	77153091	77153129	8
novel_miRNA-227	chr18	812154	812216	6
novel_miRNA-228	chr18	10290499	10290549	7
novel_miRNA-229	chr18	14878448	14878519	9
novel_miRNA-230	chr18	47013500	47013568	6
novel_miRNA-231	chr19	852730	852772	2549
novel_miRNA-232	chr19	4066047	4066102	9
novel_miRNA-233	chr19	5897752	5897839	7
novel_miRNA-234	chr19	6011647	6011699	9
novel_miRNA-235	chr19	6267604	6267648	8
novel_miRNA-236	chr19	13063444	13063504	8
novel_miRNA-237	chr19	13210549	13210606	12
novel_miRNA-238	chr19	13262568	13262623	60
novel_miRNA-239	chr19	16198771	16198838	8
novel_miRNA-240	chr19	19378271	19378334	9
novel_miRNA-241	chr19	20308550	20308601	15
novel_miRNA-242	chr19	33354590	33354629	13
novel_miRNA-243	chr19	36540048	36540125	163
novel_miRNA-244	chr19	40094102	40094189	6
novel_miRNA-245	chr19	44057059	44057117	17
novel_miRNA-246	chr19	47124928	47124996	7
novel_miRNA-247	chr19	48981470	48981533	8
novel_miRNA-248	chr19	56744273	56744329	14
novel_miRNA-249	chr19	57950479	57950542	31
novel_miRNA-250	chr19	58024386	58024428	20
novel_miRNA-251	chr20	26189316	26189369	18
novel_miRNA-252	chr20	35410544	35410608	11
novel_miRNA-253	chr20	35990200	35990264	7
novel_miRNA-254	chr20	35990300	35990356	7

novel_miRNA-255	chr20	57464475	57464527	9
novel_miRNA-256	chr20	57598915	57598972	41
novel_miRNA-257	chr21	14733221	14733292	9
novel_miRNA-258	chr21	15755431	15755521	8
novel_miRNA-259	chr21	44741578	44741646	7
novel_miRNA-260	chr21	44765093	44765144	97
novel_miRNA-261	chr22	16267709	16267757	10
novel_miRNA-262	chr22	19249808	19249911	71
novel_miRNA-263	chr22	20052703	20052765	15
novel_miRNA-264	chr22	24833922	24833985	43
novel_miRNA-265	chr22	26968292	26968349	11
novel_miRNA-266	chr22	38368925	38368965	10
novel_miRNA-267	chr22	42692552	42692603	10
novel_miRNA-268	chr22	42731413	42731510	10
novel_miRNA-269	chr22	50862768	50862866	35
novel_miRNA-270	chr22	50862787	50862866	35
novel_miRNA-271	chrX	1514284	1514338	10
novel_miRNA-272	chrX	15734402	15734466	9
novel_miRNA-273	chrX	46679104	46679178	13
novel_miRNA-274	chrX	69674997	69675067	17
novel_miRNA-275	chrX	72439451	72439497	10
novel_miRNA-276	chrY	1464284	1464338	10
novel_miRNA-277	chrY	6134354	6134401	10
novel_miRNA-278	chrY	10035633	10035687	17
novel_miRNA-279	chrY	59047981	59048050	13

Table S3. Novel miRNAs found in the P group

name	chr	start	stop	ReadCount
novel_miRNA-280	chr1	3176753	3176805	23
novel_miRNA-281	chr1	7114139	7114200	10
novel_miRNA-282	chr1	10479790	10479857	13
novel_miRNA-283	chr1	12647947	12648008	16
novel_miRNA-284	chr1	14454390	14454459	13
novel_miRNA-285	chr1	20604420	20604487	14
novel_miRNA-286	chr1	22440657	22440720	4
novel_miRNA-287	chr1	24261257	24261302	33
novel_miRNA-288	chr1	25590108	25590168	80
novel_miRNA-289	chr1	25660433	25660493	80
novel_miRNA-290	chr1	26053638	26053708	9
novel_miRNA-291	chr1	27426408	27426479	8
novel_miRNA-292	chr1	28906275	28906336	118
novel_miRNA-293	chr1	31013239	31013323	156
novel_miRNA-294	chr1	31652861	31652966	11
novel_miRNA-295	chr1	34423976	34424032	12
novel_miRNA-296	chr1	39867943	39868015	11
novel_miRNA-297	chr1	44464934	44464993	8
novel_miRNA-298	chr1	45801757	45801801	32
novel_miRNA-299	chr1	47647727	47647785	18
novel_miRNA-300	chr1	53575523	53575595	17
novel_miRNA-301	chr1	62512086	62512169	23
novel_miRNA-302	chr1	95620393	95620451	103, 103
novel_miRNA-303	chr1	95708689	95708767	11
novel_miRNA-304	chr1	102665703	102665769	189
novel_miRNA-305	chr1	104208195	104208270	20
novel_miRNA-306	chr1	104228943	104229018	20
novel_miRNA-307	chr1	104302333	104302408	20
novel_miRNA-308	chr1	117601856	117601919	21
novel_miRNA-309	chr1	119636312	119636375	24
novel_miRNA-310	chr1	143165667	143165745	12
novel_miRNA-311	chr1	143282143	143282196	387
novel_miRNA-312	chr1	143422219	143422297	12
novel_miRNA-313	chr1	144014106	144014171	18
novel_miRNA-314	chr1	145830702	145830773	55
novel_miRNA-315	chr1	148930542	148930596	8
novel_miRNA-316	chr1	150507371	150507436	10
novel_miRNA-317	chr1	152483433	152483517	36
novel_miRNA-318	chr1	153336285	153336336	11

novel_miRNA-319	chr1	153658519	153658591	13
novel_miRNA-320	chr1	154232271	154232339	56
novel_miRNA-321	chr1	155015461	155015503	12
novel_miRNA-322	chr1	156880271	156880339	11
novel_miRNA-323	chr1	161416444	161416505	8
novel_miRNA-324	chr1	161423824	161423885	8
novel_miRNA-325	chr1	161431235	161431296	8
novel_miRNA-326	chr1	161438615	161438676	8
novel_miRNA-327	chr1	164443710	164443790	10
novel_miRNA-328	chr1	166167133	166167188	23
novel_miRNA-329	chr1	175416282	175416371	11
novel_miRNA-330	chr1	193178393	193178454	10
novel_miRNA-331	chr1	198713926	198713981	11
novel_miRNA-332	chr1	202101462	202101530	10
novel_miRNA-333	chr1	203698770	203698831	13
novel_miRNA-334	chr1	204163210	204163284	12
novel_miRNA-335	chr1	204197979	204198066	13
novel_miRNA-336	chr1	205238769	205238837	10
novel_miRNA-337	chr1	206755974	206756028	10
novel_miRNA-338	chr1	209594780	209594834	12
novel_miRNA-339	chr1	211085544	211085624	10
novel_miRNA-340	chr1	215761740	215761807	68
novel_miRNA-341	chr1	220608148	220608201	10
novel_miRNA-342	chr1	224250576	224250620	33
novel_miRNA-343	chr1	228366538	228366588	12
novel_miRNA-344	chr1	238064429	238064492	11
novel_miRNA-345	chr1	244262863	244262943	23
novel_miRNA-346	chr1	246996751	246996806	11
novel_miRNA-347	chr2	595868	595943	15
novel_miRNA-348	chr2	1840475	1840565	24
novel_miRNA-349	chr2	3633111	3633175	18
novel_miRNA-350	chr2	3649398	3649484	9
novel_miRNA-351	chr2	11069462	11069544	10
novel_miRNA-352	chr2	11791712	11791781	12
novel_miRNA-353	chr2	13347172	13347229	72
novel_miRNA-354	chr2	15879890	15879937	14
novel_miRNA-355	chr2	19600858	19600907	15
novel_miRNA-356	chr2	21556921	21556973	11
novel_miRNA-357	chr2	25038285	25038367	15
novel_miRNA-358	chr2	34646876	34646923	14
novel_miRNA-359	chr2	43417763	43417825	74
novel_miRNA-360	chr2	45012775	45012853	19
novel_miRNA-361	chr2	45381067	45381109	20

novel_miRNA-362	chr2	48998159	48998212	17
novel_miRNA-363	chr2	54785822	54785904	29
novel_miRNA-364	chr2	59904868	59904941	37
novel_miRNA-365	chr2	66420334	66420406	15
novel_miRNA-366	chr2	68916584	68916629	1099
novel_miRNA-367	chr2	68982439	68982506	68
novel_miRNA-368	chr2	70023873	70023930	10
novel_miRNA-369	chr2	82309295	82309345	21
novel_miRNA-370	chr2	85663851	85663936	11
novel_miRNA-371	chr2	96516040	96516101	13
novel_miRNA-372	chr2	111147056	111147133	45
novel_miRNA-373	chr2	111892962	111893024	13
novel_miRNA-374	chr2	113643919	113643964	113
novel_miRNA-375	chr2	119037040	119037104	17
novel_miRNA-376	chr2	121571366	121571413	10
novel_miRNA-377	chr2	121761965	121762023	11
novel_miRNA-378	chr2	122653276	122653316	30
novel_miRNA-379	chr2	123001691	123001754	16
novel_miRNA-380	chr2	127898575	127898645	11
novel_miRNA-381	chr2	130716480	130716540	25
novel_miRNA-382	chr2	130979440	130979519	18
novel_miRNA-383	chr2	146520880	146520933	12
novel_miRNA-384	chr2	147922494	147922553	8
novel_miRNA-385	chr2	150077666	150077749	12
novel_miRNA-386	chr2	151856449	151856495	17
novel_miRNA-387	chr2	156008575	156008635	18
novel_miRNA-388	chr2	160304775	160304844	18
novel_miRNA-389	chr2	166363207	166363257	14
novel_miRNA-390	chr2	169138047	169138096	10
novel_miRNA-391	chr2	173328569	173328624	17
novel_miRNA-392	chr2	178857886	178857952	16
novel_miRNA-393	chr2	200669265	200669339	10
novel_miRNA-394	chr2	201699485	201699534	43
novel_miRNA-395	chr2	204106012	204106078	21
novel_miRNA-396	chr2	204276398	204276463	14
novel_miRNA-397	chr2	204304685	204304749	11
novel_miRNA-398	chr2	206053357	206053437	11
novel_miRNA-399	chr2	208229329	208229403	8
novel_miRNA-400	chr2	218500030	218500083	17
novel_miRNA-401	chr2	218687112	218687159	6
novel_miRNA-402	chr2	230417859	230417913	52
novel_miRNA-403	chr2	232321163	232321230	31
novel_miRNA-404	chr2	232470916	232470978	15

novel_miRNA-405	chr2	234955424	234955472	24
novel_miRNA-406	chr2	241236389	241236432	12
novel_miRNA-407	chr3	4385210	4385261	43
novel_miRNA-408	chr3	4460695	4460773	14
novel_miRNA-409	chr3	5091352	5091410	16
novel_miRNA-410	chr3	5533933	5534010	12
novel_miRNA-411	chr3	6993931	6993992	11
novel_miRNA-412	chr3	12994520	12994585	28
novel_miRNA-413	chr3	13503501	13503542	14
novel_miRNA-414	chr3	13891395	13891469	17
novel_miRNA-415	chr3	14074136	14074213	27
novel_miRNA-416	chr3	16343657	16343708	59
novel_miRNA-417	chr3	17783606	17783678	19
novel_miRNA-418	chr3	18304709	18304778	32
novel_miRNA-419	chr3	20432882	20432950	12
novel_miRNA-420	chr3	37968323	37968390	12
novel_miRNA-421	chr3	45377614	45377681	25
novel_miRNA-422	chr3	45619377	45619428	21
novel_miRNA-423	chr3	45969968	45970023	19
novel_miRNA-424	chr3	46379868	46379931	20
novel_miRNA-425	chr3	46964381	46964434	13
novel_miRNA-426	chr3	47088373	47088433	11
novel_miRNA-427	chr3	48050932	48050997	484
novel_miRNA-428	chr3	48609865	48609939	11
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novel_miRNA-784	chr12	121435160	121435229	11
novel_miRNA-785	chr12	125406310	125406372	249
novel_miRNA-786	chr12	132393393	132393442	21
novel_miRNA-787	chr12	133443006	133443071	11
novel_miRNA-788	chr12	133443049	133443112	11
novel_miRNA-789	chr12	133443090	133443170	11
novel_miRNA-790	chr12	133443225	133443341	11, 11
novel_miRNA-791	chr13	20021653	20021729	17

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novel_miRNA-794	chr13	21014160	21014225	16
novel_miRNA-795	chr13	24985933	24986010	17
novel_miRNA-796	chr13	27259471	27259537	-
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novel_miRNA-799	chr13	40964002	40964054	14
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novel_miRNA-803	chr13	62492240	62492303	95
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novel_miRNA-805	chr13	98974732	98974789	15
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novel_miRNA-807	chr13	107238835	107238896	163
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novel_miRNA-937	chr19	16409437	16409495	34
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novel_miRNA-939	chr19	28120654	28120711	62
novel_miRNA-940	chr19	28244421	28244504	13
novel_miRNA-941	chr19	33767882	33767958	13
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novel_miRNA-947	chr19	51978565	51978610	28
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novel_miRNA-949	chr19	54111689	54111753	13
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novel_miRNA-960	chr21	10931278	10931354	17
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novel_miRNA-962	chr21	17630267	17630353	36
novel_miRNA-963	chr21	38529928	38529981	27

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novel_miRNA-969	chr22	16288825	16288897	29
novel_miRNA-970	chr22	19752442	19752521	37
novel_miRNA-971	chr22	19886849	19886908	10
novel_miRNA-972	chr22	20105116	20105173	10
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novel_miRNA-974	chr22	25171765	25171829	82
novel_miRNA-975	chr22	25593474	25593541	19
novel_miRNA-976	chr22	28879792	28879848	26
novel_miRNA-977	chr22	31284148	31284210	31
novel_miRNA-978	chr22	32854499	32854560	12
novel_miRNA-979	chr22	37440451	37440530	11
novel_miRNA-980	chr22	41938527	41938579	8
novel_miRNA-981	chrX	9972087	9972172	10
novel_miRNA-982	chrX	9981280	9981337	23
novel_miRNA-983	chrX	11702217	11702301	16
novel_miRNA-984	chrX	14855392	14855448	8
novel_miRNA-985	chrX	17858961	17859023	19
novel_miRNA-986	chrX	20310288	20310327	17
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novel_miRNA-992	chrX	45828919	45828966	19
novel_miRNA-993	chrX	50514023	50514067	13
novel_miRNA-994	chrX	53085898	53085963	11
novel_miRNA-995	chrX	58144847	58144919	9
novel_miRNA-996	chrX	61754638	61754686	1962
novel_miRNA-997	chrX	62025367	62025418	66
novel_miRNA-998	chrX	64486572	64486630	11
novel_miRNA-999	chrX	67880725	67880782	10
novel_miRNA-1000	chrX	69086638	69086707	228
novel_miRNA-1001	chrX	77193821	77193875	89
novel_miRNA-1002	chrX	88418961	88419035	15
novel_miRNA-1003	chrX	108058859	108058924	492
novel_miRNA-1004	chrX	110499000	110499060	13
novel_miRNA-1005	chrX	115740065	115740111	9
novel_miRNA-1006	chrX	118213909	118213994	25

novel_miRNA-1007	chrX	118623907	118623965	13
novel_miRNA-1008	chrX	120271652	120271714	20
novel_miRNA-1009	chrX	120837831	120837905	10
novel_miRNA-1010	chrX	130012378	130012456	22
novel_miRNA-1011	chrX	132783903	132783967	12
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novel_miRNA-1013	chrX	134732080	134732157	13
novel_miRNA-1014	chrX	136722508	136722574	11
novel_miRNA-1015	chrX	148615166	148615229	22
novel_miRNA-1016	chrX	149114753	149114816	22
novel_miRNA-1017	chrX	151877299	151877369	13
novel_miRNA-1018	chrX	151896527	151896597	13
novel_miRNA-1019	chrX	151928112	151928182	13
novel_miRNA-1020	chrX	152734269	152734318	1261
novel_miRNA-1021	chrX	153443505	153443566	9
novel_miRNA-1022	chrX	153480625	153480686	9
novel_miRNA-1023	chrX	153518430	153518491	9
novel_miRNA-1024	chrY	812940	813017	16
novel_miRNA-1025	chrY	13466108	13466163	31
novel_miRNA-1026	chrY	13658123	13658201	202
novel_miRNA-1027	chrY	25483001	25483049	54
novel_miRNA-1028	chrY	26863693	26863741	54
novel_miRNA-1029	chrY	27098660	27098708	54

common novel miRNA in H and P groups

novel_miRNA-13	chr1	175937532	175937596	248
novel_miRNA-14	chr1	182360849	182360925	38
novel_miRNA-23	chr2	74766442	74766500	13
novel_miRNA-30	chr2	161314276	161314357	31
novel_miRNA-38	chr3	13673754	13673799	205
novel_miRNA-44	chr3	49058066	49058130	35
novel_miRNA-57	chr3	186505088	186505154	618
novel_miRNA-103	chr7	138728845	138728903	98
novel_miRNA-104	chr7	140306488	140306559	12
novel_miRNA-105	chr7	142157355	142157408	123
novel_miRNA-109	chr8	41059078	41059153	112
novel_miRNA-110	chr8	56821958	56822010	38
novel_miRNA-115	chr8	99405893	99405954	11
novel_miRNA-122	chr9	89037927	89037972	15520
novel_miRNA-146	chr11	17453994	17454073	68731
novel_miRNA-152	chr11	62609165	62609212	15526
novel_miRNA-156	chr11	93463678	93463743	67
novel_miRNA-162	chr12	71892247	71892291	22

novel_miRNA-174	chr14	19573521	19573575	24
novel_miRNA-182	chr14	106352860	106352932	34
novel_miRNA-185	chr15	44281062	44281144	31
novel_miRNA-192	chr15	85217760	85217837	263
novel_miRNA-203	chr16	72089401	72089448	156
novel_miRNA-212	chr17	18967232	18967296	1591
novel_miRNA-213	chr17	19015732	19015796	1591
novel_miRNA-215	chr17	19093341	19093405	1591
novel_miRNA-220	chr17	36084264	36084312	27
novel_miRNA-223	chr17	75085389	75085475	40
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novel_miRNA-231	chr19	852730	852772	1004
novel_miRNA-238	chr19	13262568	13262623	7
novel_miRNA-249	chr19	57950479	57950542	66
novel_miRNA-260	chr21	44765093	44765144	88
novel_miRNA-261	chr22	16267709	16267757	24
novel_miRNA-263	chr22	20052703	20052765	120