

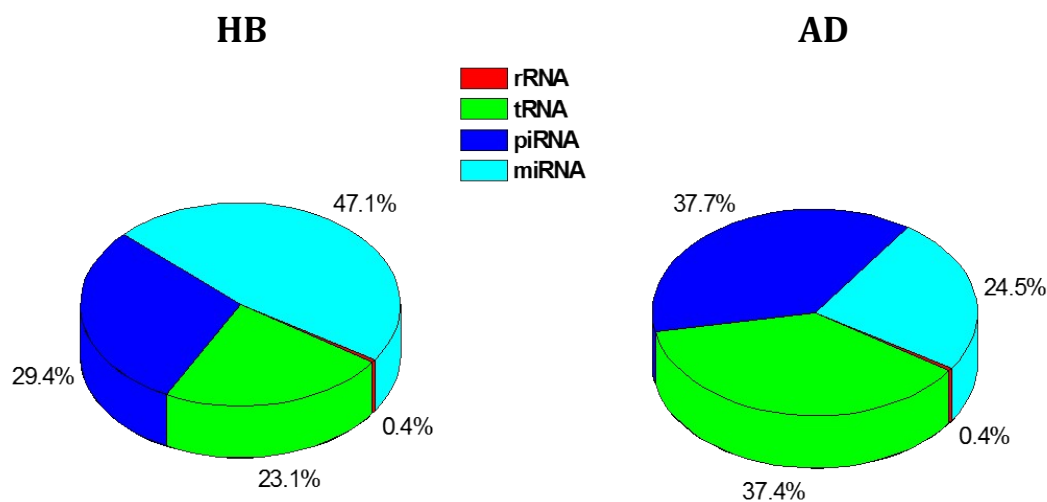
## Small RNA sequencing revealed dysregulated piRNAs in Alzheimer's disease and their probable role in pathogenesis

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### Electronic Supplementary Information (ESI)



**Figure S1. Distribution (%) of small RNA reads mapped to ncRNAs**

**Table S1. List of mRNA primers used in the study**

No	Oligo Name	5' <-----Sequence----->3'	Length
1	PIWIL1_F	ACGAAGTGCCACAGTTTTTGG	21
	PIWIL1_R	AGTCTTCCTCCAGACTGAGC	20
2	PIWIL2_F	GCCTGGGTTGAACTAAAGGA	20
	PIWIL2_R	CCATGATGATGCAAACAACC	20
3	PIWIL3_F	TCAGATGGCAGCAAAATCAC	20
	PIWIL3_R	ACGTTGTGTACCCGTTAGGC	20
4	PIWIL4_F	ATGGCACCGAGATCACCTAT	20
	PIWIL4_R	GCTGAGCCTCACTGTTGTCA	20
5	KPNA6_F	GGCACTGGGAAACATAGCTGG	21
	KPNA6_R	CGTGTGGACTTGGTAAGGAGT	21
6	CYCS_F	CTTTGGGCGGAAGACAGGTC	20
	CYCS_R	TTATTGGCGGCTGTGTAAGAG	21
7	RAB11A_F	CAACAAGAAGCATCCAGGTTGA	22
	RAB11A_R	GCACCTACAGCTCCACGATAAT	22
8	Lin7C_F	GAAGTGAGAGCGAACGCTACT	21
	Lin7C_R	TCCACCTGGAATTATTCGGGAT	22
9	RPL13_F	TCAAAGCCTTCGCTAGTCTCC	21
	RPL13_R	GGCTCTTTTTGCCCGTATGC	20

**Table S2. List of primers of small RNAs for qPCR**

No	Oligo Name	5' <-----Sequence----->3'	Length
1	piR-51810_F	TGCCCCATGTCTAACAACAT	21
2	piR-40666_F	TCAAACCTCTGACCTCATGAT	21
3	piR-34393_F	GACCAGCCTGGCCAACATGGT	21
4	piR-38240_F	TACCATCTTGGCTCACTGCA	20
5	U6_F	CTCGCTTCGGCAGCACATATACT	23
	U6_R	ACGCTTCACGAATTTGCGTGTC	22

**Table S3. List of 149 DE-piRNAs in Alzheimer's disease**

piRNA	baseMean	baseMean_contr	baseMean_test	Fold Change
piR-30112	133.875	76.5	114.75	1.5
piR-30113	260	139.5	241	1.727598566
piR-30229	44393	22041	44704	2.028220135
piR-30318	567.87	127.55	880.64	6.9
piR-30506	56.195	31.69	49.01	1.55
piR-30652	61.04	12.43	97.22	7.82

piR-30810	17.27	5.62	23.3	4.15
piR-30840	67.85	31.29	73.12	2.34
piR-30961	224.05	82.23	283.64	3.45
piR-31038	1913.5	272	3283	12.069852 94
piR-31052	94.735	47.33	94.81	2
piR-31068	33.375	16	34.75	2.171875
piR-31106	46.975	18.45	57.05	3.09
piR-31143	45	19	52	2.7368421 05
piR-31368	8.43	6.02	4.82	1.25
piR-31447	47.795	8.02	79.55	9.92
piR-31531	68.665	22.06	93.21	4.23
piR-31612	126.88	43.72	166.32	3.8
piR-31623	81.88	50.14	63.48	1.27
piR-31638	4620.915	4245.68	750.47	-5.66
piR-31650	3.215	2.01	2.41	1.2
piR-31703	221	126	190	1.5079365 08
piR-31925	593.595	119.13	948.93	7.97
piR-31970	293.04	145.6	294.88	2.03
piR-32311	3680.25	2309.5	2741.5	1.1870534 75
piR-32313	116	103	26	0.2524271 84
piR-32374	142.145	47.33	189.63	4.01
piR-32377	21.5	10.5	22	2.0952380 95
piR-33043	23401.69	12353.17	22097.04	1.79
piR-33044	13340.4	7290.45	12099.9	1.66
piR-33065	200	103	194	1.8834951 46
piR-33082	224.375	123.94	200.87	1.62
piR-33123	26.5	11.5	30	2.6086956 52
piR-33382	237.26	106.69	261.14	2.45
piR-33387	14.45	8.02	12.86	1.6
piR-33415	161.25	79	164.5	2.0822784 81
piR-33437	121.63	62.17	118.92	1.91
piR-33468	1763.78	689.1	2149.36	3.12
piR-33486	7.62	5.21	4.82	1.08
piR-33487	81.46	56.15	50.62	1.11
piR-33519	62.23	27.28	69.9	2.56
piR-33543	42.145	27.68	28.93	1.05
piR-33650	17.26	8.42	17.68	2.1
piR-33686	91.965	19.65	144.63	7.36

piR-33748	20.875	8.02	25.71	3.21
piR-33783	15.245	12.03	6.43	1.87
piR-33856	100.79	31.69	138.2	4.36
piR-33864	318.11	297.22	41.78	-7.11
piR-33879	20.485	6.02	28.93	4.81
piR-33880	17.275	2.81	28.93	10.3
piR-34221	42.565	14.04	57.05	4.06
piR-34291	373.68	215.79	315.78	1.46
piR-34341	42.53	30.88	23.3	1.33
piR-34358	2.1	1.6	1	1.6
piR-34372	131.75	44.5	174.5	3.9213483 15
piR-34375	941.475	639.76	603.43	1.06
piR-34377	187.055	100.68	172.75	1.72
piR-34393	1.7	1.2	1	1.2
piR-34420	363.75	134	459.5	3.4291044 78
piR-34443	8.03	1.2	13.66	11.38
piR-34456	96.33	57.76	77.14	1.34
piR-34533	69	37	64	1.7297297 3
piR-34536	53.415	13.64	79.55	5.83
piR-34653	200.725	89.04	223.37	2.51
piR-34736	36.925	22.06	29.73	1.35
piR-34804	22.875	14.44	16.87	1.17
piR-34811	2176.5	1098.5	2156	1.9626763 77
piR-34929	757.5	315.5	884	2.8019017 43
piR-34984	10.44	6.02	8.84	1.47
piR-35059	331.17	172.88	316.58	1.83
piR-35176	1908.89	889.65	2038.48	2.29
piR-35304	562.5	228	669	2.9342105 26
piR-35406	23.125	10.5	25.25	2.4047619 05
piR-35407	3984	951.5	6065	6.3741460 85
piR-35413	3305.86	1579.54	3452.64	2.19
piR-35545	4.415	3.61	1.61	2.24
piR-35548	30.1	23.67	12.86	1.84
piR-35952	54.98	34.09	41.78	1.23
piR-35953	29.5	14	31	2.2142857 14
piR-35982	40.75	19	43.5	2.2894736 84
piR-36026	252	119.75	264.5	2.2087682 67

piR-36040	160.24	36.5	247.48	6.78
piR-36041	469.435	380.65	177.57	-2.14
piR-36074	4815.5	2741.5	4148	1.513040306
piR-36170	259.36	103.48	311.76	3.01
piR-36173	4.815	1.6	6.43	4.02
piR-36225	543.665	189.32	708.69	3.74
piR-36241	2.815	2.01	1.61	1.25
piR-36245	31	14	34	2.428571429
piR-36251	35.75	17.5	36.5	2.085714286
piR-36318	3523	786.5	5473	6.958677686
piR-36329	421.84	247.48	348.72	1.41
piR-36338	54.195	27.28	53.83	1.97
piR-36339	184.705	62.17	245.07	3.94
piR-36340	3419.71	2230.53	2378.36	1.07
piR-36444	27.75	14	27.5	1.964285714
piR-36494	378.25	285.5	185.5	0.649737303
piR-36706	230.5	115.5	230	1.991341991
piR-36707	3425.85	1667.39	3516.92	2.11
piR-36712	622.285	265.13	714.31	2.69
piR-36717	268.945	141.19	255.51	1.81
piR-36741	4308.25	3283	2050.5	0.624581176
piR-36743	1083.36	596.84	973.04	1.63
piR-37213	550	74.25	951.5	12.81481481
piR-38240	7.625	3.61	8.03	2.22
piR-40666	41.125	34.25	13.75	0.401459854
piR-40982	742.32	318.07	848.5	2.67
piR-41004	606.14	310.45	591.38	1.9
piR-41435	20.07	8.02	24.1	3
piR-42844	1025.5	623.5	804	1.289494787
piR-43176	11.64	6.82	9.64	1.41
piR-43604	79.5	27.75	103.5	3.72972973
piR-43770	167.82	71	193.64	2.73
piR-43773	316.305	173.28	286.05	1.65
piR-43994	1561.88	577.19	1969.38	3.41
piR-43996	120.86	42.52	156.68	3.68
piR-43997	153.75	84	139.5	1.6607142

				86
piR-44312	5.215	3.61	3.21	1.12
piR-44717	5.62	2.81	5.62	2
piR-44718	42.955	18.45	49.01	2.66
piR-44940	15.75	10.5	10.5	1
piR-44984	3020.885	1415.09	3211.59	2.27
piR-44992	26.5	8.42	36.16	4.29
piR-45030	110.01	46.13	127.76	2.77
piR-45371	12.04	5.21	13.66	2.62
piR-46895	15.255	9.63	11.25	1.17
piR-47305	601	297	608	2.0471380 47
piR-49124	81.515	24.87	113.29	4.56
piR-51810	59.01	29.68	58.66	1.98
piR-52404	41.75	32.75	18	0.5496183 21
piR-54265	1765.8	429.58	2672.44	6.22
piR-54381	80.675	44.92	71.51	1.59
piR-54626	51.75	24.5	54.5	2.2244897 96
piR-54907	5615.25	4148	2934.5	0.7074493 73
piR-55213	2.405	1.6	1.61	1.01
piR-56450	22.875	12.03	21.69	1.8
piR-57125	15.75	10	11.5	1.15
piR-58469	9.645	2.01	15.27	7.6
piR-60238	589.03	209.78	758.5	3.62
piR-60565	86	26	120	4.6153846 15
piR-60573	387.065	140.79	492.55	3.5
piR-60577	2348.72	438	3821.44	8.72
piR-60668	14.05	5.21	17.68	3.39
piR-60852	70.65	38.51	64.28	1.67
piR-61135	48.56	32.89	31.34	1.05
piR-61298	779.57	391.88	775.38	1.98
piR-61646	161.075	20.06	282.03	14.06
piR-61648	1381.585	269.54	2224.09	8.25
piR-61919	251.72	109.9	283.64	2.58

**Table S4. List of 691 miRNAs differentially expressed in Alzheimer's disease**

SI No.	miRNA id	baseMean	baseMean_control	baseMean_test	Fold Change
1	hsa-let-7a-2-3p	417.6367	383.4254	451.8481	1.178451

2	hsa-let-7a-3p	413402.6	480665.1	346140.1	0.720127
3	hsa-let-7a-5p	1368528	1525287	1211769	0.794453
4	hsa-let-7b-3p	21997	22959.82	21034.17	0.91613
5	hsa-let-7b-5p	1251161	1382208	1120115	0.810381
6	hsa-let-7c-3p	75.78137	72.81209	78.75066	1.08156
7	hsa-let-7c-5p	1220577	1377564	1063590	0.77208
8	hsa-let-7d-3p	4984.4	4398.16	5570.641	1.266584
9	hsa-let-7d-5p	402981.3	448603.8	357358.9	0.796602
10	hsa-let-7e-3p	419.9605	384.1999	455.721	1.186156
11	hsa-let-7e-5p	72508.96	96215.75	48802.17	0.507216
12	hsa-let-7f-1-3p	418.9277	453.1391	384.7163	0.849003
13	hsa-let-7f-2-3p	517.6888	449.2661	586.1115	1.304598
14	hsa-let-7f-5p	416093.6	483897.5	348289.6	0.719759
15	hsa-let-7g-3p	194.9402	151.0464	238.834	1.581197
16	hsa-let-7g-5p	224705.7	250865.5	198545.9	0.791444
17	hsa-let-7i-3p	613.997	539.8939	688.1	1.27451
18	hsa-let-7i-5p	225325.5	251761.7	198889.3	0.78999
19	hsa-miR-100-3p	229.1515	147.1734	311.1297	2.114035
20	hsa-miR-100-5p	154560.3	88581.33	220539.3	2.489682
21	hsa-miR-101-3p	98009.59	59990.96	136028.2	2.267478
22	hsa-miR-101-5p	70227.9	41945.18	98510.62	2.348556
23	hsa-miR-103a-2-5p	54.62339	50.92011	58.32667	1.145455
24	hsa-miR-103a-3p	79258.41	78602.97	79913.85	1.016677
25	hsa-miR-103b	79258.41	78602.97	79913.85	1.016677
26	hsa-miR-105-5p	187.0651	164.9891	209.1411	1.267606
27	hsa-miR-106a-5p	2611.165	1488.775	3733.556	2.507804
28	hsa-miR-106b-3p	1528.667	985.287	2072.046	2.102987
29	hsa-miR-106b-5p	1661.51	1065.07	2257.949	2.12
30	hsa-miR-107	79325.28	78665.71	79984.85	1.016769
31	hsa-miR-10a-5p	4138.154	3244.011	5032.296	1.551258
32	hsa-miR-10b-5p	8984.289	8105.38	9863.198	1.216871
33	hsa-miR-1179	193.9074	161.8907	225.924	1.395534
34	hsa-miR-1180-3p	3773.06	5241.696	2304.425	0.439634
35	hsa-miR-1185-1-3p	51.61447	74.06561	29.16333	0.39375
36	hsa-miR-1185-5p	701.2682	928.7414	473.795	0.510147
37	hsa-miR-1197	398.53	591.7919	205.2681	0.346859
38	hsa-miR-1224-3p	310.6133	427.5774	193.6492	0.452899
39	hsa-miR-1224-5p	652.3395	1003.877	300.8017	0.29964
40	hsa-miR-122-5p	59.40679	58.32667	60.48691	1.037037
41	hsa-miR-1226-3p	126.1302	99.92297	152.3373	1.524548
42	hsa-miR-1229-3p	115.8022	130.9068	100.6976	0.769231
43	hsa-miR-124-3p	96396.1	131226	61566.23	0.469162
44	hsa-miR-124-5p	230.3134	234.7028	225.924	0.962596
45	hsa-miR-1246	2902.156	398.9173	5405.394	13.55016
46	hsa-miR-1247-5p	449.6534	546.8652	352.4415	0.644476

47	hsa-miR-1248	73.13979	16.66476	129.6148	7.777778
48	hsa-miR-1249-3p	1412.339	1321.145	1503.532	1.138052
49	hsa-miR-1250-5p	56.67466	44.92661	68.42271	1.522989
50	hsa-miR-1251-5p	83.78554	72.03749	95.53359	1.326165
51	hsa-miR-125a-3p	180.0937	228.506	131.6814	0.576271
52	hsa-miR-125a-5p	444968.3	484936.2	405000.5	0.835162
53	hsa-miR-125b-1-3p	4641.254	4099.166	5183.343	1.264487
54	hsa-miR-125b-2-3p	34943.22	39142.69	30743.74	0.785427
55	hsa-miR-125b-5p	446532	486527.3	406536.7	0.835589
56	hsa-miR-1260b	251.8231	212.0128	291.6333	1.375546
57	hsa-miR-126-3p	24835.51	24918.77	24752.24	0.993317
58	hsa-miR-126-5p	125056.6	155572.3	94540.81	0.607697
59	hsa-miR-1268a	85.98023	86.75483	85.20563	0.982143
60	hsa-miR-1268b	86.88393	85.98023	87.78762	1.021021
61	hsa-miR-1271-5p	84.94743	58.86935	111.0255	1.885965
62	hsa-miR-1273e	69.7137	89.07862	50.34878	0.565217
63	hsa-miR-1273f	92.3061	100.6976	83.91464	0.833333
64	hsa-miR-1273g-3p	438.0344	515.8814	360.1875	0.698198
65	hsa-miR-1273h-3p	114.8985	139.4274	90.36961	0.648148
66	hsa-miR-127-3p	13512.71	15292.86	11732.56	0.767192
67	hsa-miR-1275	135.038	187.4524	82.62364	0.440771
68	hsa-miR-127-5p	948.6227	907.0527	990.1927	1.09166
69	hsa-miR-1277-5p	123.6741	90.73037	156.6179	1.72619
70	hsa-miR-128-1-5p	1544.546	2275.765	813.3265	0.357386
71	hsa-miR-128-3p	209419.4	291931.5	126907.3	0.434716
72	hsa-miR-1285-3p	104.0542	106.1197	101.9886	0.961071
73	hsa-miR-1285-5p	104.8287	107.6689	101.9886	0.947242
74	hsa-miR-1286	86.10933	119.2879	52.93077	0.443723
75	hsa-miR-1287-5p	102.2468	99.92297	104.5706	1.046512
76	hsa-miR-129-1-3p	3573.085	3581.735	3564.436	0.99517
77	hsa-miR-129-2-3p	3562.499	3574.764	3550.235	0.993138
78	hsa-miR-129-5p	7080.072	10154.19	4005.956	0.394513
79	hsa-miR-1296-5p	4149.643	2727.355	5571.932	2.04298
80	hsa-miR-1297	68108.48	55296.13	80920.82	1.463408
81	hsa-miR-1298-3p	236.7684	265.6867	207.8501	0.782313
82	hsa-miR-1298-5p	87.78762	120.0625	55.51276	0.462366
83	hsa-miR-1299	63.34153	101.8402	24.84284	0.243939
84	hsa-miR-1301-3p	1047.513	1125.489	969.5368	0.861436
85	hsa-miR-1303	5625.379	1659.961	9590.798	5.777726
86	hsa-miR-1304-3p	107.858	99.06275	116.6533	1.17757
87	hsa-miR-1306-5p	116.5768	124.7101	108.4435	0.869565
88	hsa-miR-1307-3p	1140.852	704.1084	1577.595	2.240557
89	hsa-miR-1307-5p	25663.94	25839.77	25488.1	0.98639
90	hsa-miR-130a-3p	4045.331	4209.933	3880.729	0.921803
91	hsa-miR-130b-3p	1185.52	1061.972	1309.068	1.232677



92	hsa-miR-130b-5p	269.1723	286.6008	251.7439	0.878378
93	hsa-miR-132-3p	25855.26	37887.85	13822.68	0.364831
94	hsa-miR-132-5p	2182.039	3632.084	731.9939	0.201536
95	hsa-miR-133a-3p	3171.715	4628.99	1714.441	0.37037
96	hsa-miR-133b	3174.814	4635.186	1714.441	0.369875
97	hsa-miR-1343-3p	142.2676	177.3826	107.1525	0.604076
98	hsa-miR-134-3p	71.77929	86.75483	56.80376	0.654762
99	hsa-miR-134-5p	2324.436	2378.012	2270.859	0.95494
100	hsa-miR-135a-5p	1741.035	601.8616	2880.209	4.7855
101	hsa-miR-136-3p	19806.18	22243.32	17369.04	0.780865
102	hsa-miR-136-5p	3335.413	3343.934	3326.893	0.994904
103	hsa-miR-137	2075.274	1584.05	2566.497	1.620212
104	hsa-miR-138-1-3p	15545.9	17192.95	13898.85	0.808404
105	hsa-miR-138-2-3p	156.7267	106.8943	206.5591	1.932367
106	hsa-miR-138-5p	15543.06	17170.48	13915.63	0.810439
107	hsa-miR-139-3p	845.9887	1313.716	378.2614	0.287932
108	hsa-miR-139-5p	13123.09	14141.81	12104.36	0.855927
109	hsa-miR-1-3p	406.7924	690.9402	122.6445	0.177504
110	hsa-miR-140-3p	20231.95	14440.03	26023.87	1.802203
111	hsa-miR-140-5p	812.1646	780.0188	844.3104	1.082423
112	hsa-miR-141-3p	398.2718	104.5706	691.973	6.617284
113	hsa-miR-142-3p	313.5826	164.9891	462.176	2.801252
114	hsa-miR-142-5p	8808.842	7467.886	10149.8	1.359126
115	hsa-miR-143-3p	683575	822383.9	544766.1	0.662423
116	hsa-miR-143-5p	158.7923	205.2681	112.3165	0.54717
117	hsa-miR-144-3p	1948.111	1467.861	2428.361	1.654354
118	hsa-miR-144-5p	1739.744	1883.819	1595.669	0.847039
119	hsa-miR-145-3p	1278.214	1562.361	994.0657	0.636258
120	hsa-miR-145-5p	3189.144	2665.387	3712.9	1.393006
121	hsa-miR-1468-5p	357.8637	421.3806	294.3467	0.698529
122	hsa-miR-146a-3p	93.468	106.8943	80.04166	0.748792
123	hsa-miR-146a-5p	92325.73	115998.9	68652.5	0.591837
124	hsa-miR-146b-3p	788.023	966.6966	609.3494	0.630342
125	hsa-miR-146b-5p	92124.85	115714.7	68535.02	0.592276
126	hsa-miR-148a-3p	16086.18	15581.79	16590.57	1.064741
127	hsa-miR-148a-5p	204.6226	166.5383	242.707	1.457364
128	hsa-miR-148b-3p	14114.96	14367.22	13862.7	0.964884
129	hsa-miR-148b-5p	831.7877	759.8793	903.6961	1.189263
130	hsa-miR-149-5p	13565.38	15278.14	11852.62	0.775789
131	hsa-miR-150-5p	3464.642	4298.237	2631.047	0.612122
132	hsa-miR-151a-3p	122214.8	100135.2	144294.4	1.440996
133	hsa-miR-151a-5p	154363	162070.4	146655.7	0.904889
134	hsa-miR-151b	153768.4	161453.1	146083.8	0.904806
135	hsa-miR-152-3p	2159.834	1622.78	2696.887	1.661893
136	hsa-miR-153-3p	13173.18	13739.8	12606.56	0.917522

137	hsa-miR-153-5p	116.0604	130.1322	101.9886	0.78373
138	hsa-miR-154-3p	73.32848	47.2504	99.40657	2.103825
139	hsa-miR-154-5p	379.9397	314.4862	445.3931	1.416256
140	hsa-miR-155-5p	724.5061	580.1729	868.8393	1.497552
141	hsa-miR-15a-5p	12094.17	9869.911	14318.42	1.450714
142	hsa-miR-15b-3p	166.6674	183.5794	149.7554	0.815752
143	hsa-miR-15b-5p	1512.529	973.668	2051.39	2.106868
144	hsa-miR-1-5p	407.4378	690.9402	123.9355	0.179372
145	hsa-miR-16-2-3p	510.0719	628.9725	391.1713	0.621921
146	hsa-miR-16-5p	115120.7	100660.4	129581	1.287309
147	hsa-miR-17-3p	319.2629	217.6617	420.8642	1.933571
148	hsa-miR-17-5p	2610.778	1488	3733.556	2.50911
149	hsa-miR-181a-2-3p	5019.903	4820.315	5219.491	1.082811
150	hsa-miR-181a-3p	21385.06	22038.05	20732.08	0.94074
151	hsa-miR-181a-5p	3393246	2027900	4758593	2.346561
152	hsa-miR-181b-3p	180.6101	176.608	184.6122	1.045322
153	hsa-miR-181b-5p	256451.3	161624.2	351278.3	2.173426
154	hsa-miR-181c-3p	21382.35	22024.88	20739.83	0.941654
155	hsa-miR-181c-5p	67501.32	74160.66	60841.99	0.820408
156	hsa-miR-181d-5p	7862.673	9161.929	6563.416	0.716379
157	hsa-miR-1825	94.62989	101.4722	87.78762	0.86514
158	hsa-miR-182-5p	2799.005	2925.652	2672.359	0.913423
159	hsa-miR-1827	58.86935	75.13588	42.60282	0.56701
160	hsa-miR-183-5p	1681.133	808.6789	2553.587	3.157727
161	hsa-miR-184	882.0074	1180.485	583.5295	0.494313
162	hsa-miR-185-3p	110.38	108.4435	112.3165	1.035714
163	hsa-miR-185-5p	1245.293	1093.73	1396.856	1.277148
164	hsa-miR-186-5p	49136.02	42104.75	56167.3	1.333989
165	hsa-miR-187-3p	197.6513	230.0552	165.2473	0.718294
166	hsa-miR-18a-3p	56.67466	21.68871	91.66061	4.22619
167	hsa-miR-18a-5p	298.7361	106.8943	490.5779	4.589372
168	hsa-miR-18b-5p	300.0271	106.8943	493.1599	4.613527
169	hsa-miR-1908-5p	145.2369	185.9032	104.5706	0.5625
170	hsa-miR-190a-3p	5092.069	5980.661	4203.478	0.702845
171	hsa-miR-190a-5p	5093.36	5980.661	4206.06	0.703277
172	hsa-miR-190b	5083.162	5974.464	4191.859	0.701629
173	hsa-miR-191-3p	103.2796	147.1734	59.38574	0.403509
174	hsa-miR-191-5p	350034.6	353717.2	346351.9	0.979177
175	hsa-miR-192-5p	27092.03	26377.34	27806.73	1.05419
176	hsa-miR-193a-5p	536.9246	567.7794	506.0698	0.891314
177	hsa-miR-193b-3p	1777.054	1901.635	1652.473	0.868975
178	hsa-miR-193b-5p	57.94091	69.43651	46.44531	0.668889
179	hsa-miR-194-5p	1036.152	962.0491	1110.255	1.154053
180	hsa-miR-195-3p	185.645	209.9157	161.3743	0.768758
181	hsa-miR-195-5p	10439.5	8677.806	12201.19	1.406022

182	hsa-miR-1972	51.63978	58.09475	45.18481	0.777778
183	hsa-miR-197-3p	12602.95	11660.78	13545.11	1.161596
184	hsa-miR-199a-3p	3452.506	3680.109	3224.904	0.876307
185	hsa-miR-199a-5p	1171.707	1484.902	858.5113	0.57816
186	hsa-miR-199b-3p	3452.506	3680.109	3224.904	0.876307
187	hsa-miR-199b-5p	224.2457	243.2234	205.2681	0.843949
188	hsa-miR-19a-3p	471.213	120.0625	822.3635	6.849462
189	hsa-miR-19b-3p	3247.109	1025.566	5468.652	5.332326
190	hsa-miR-200a-3p	113.3493	85.98023	140.7184	1.636637
191	hsa-miR-200b-3p	128.9703	141.7512	116.1895	0.819672
192	hsa-miR-200c-3p	59.25665	37.18064	81.33265	2.1875
193	hsa-miR-203a-3p	994.3239	1091.407	897.2411	0.822096
194	hsa-miR-203a-5p	60.16034	63.51693	56.80376	0.894309
195	hsa-miR-203b-3p	61.19314	64.29152	58.09475	0.903614
196	hsa-miR-203b-5p	994.7112	1092.181	897.2411	0.821513
197	hsa-miR-204-5p	29613.73	27423.82	31803.65	1.159709
198	hsa-miR-208b-3p	71.00469	38.72983	103.2796	2.666667
199	hsa-miR-20a-5p	3451.603	2003.882	4899.324	2.444917
200	hsa-miR-20b-5p	439.0672	361.7366	516.3978	1.427552
201	hsa-miR-210-3p	463.2088	275.7564	650.6612	2.359551
202	hsa-miR-210-5p	96.04999	126.2593	65.84072	0.521472
203	hsa-miR-2110	185.2577	216.8871	153.6283	0.708333
204	hsa-miR-2113	88.17492	128.583	47.76679	0.371486
205	hsa-miR-211-5p	29701.13	27492.76	31909.51	1.160651
206	hsa-miR-212-3p	2062.493	3196.76	928.225	0.290364
207	hsa-miR-212-5p	742.0636	1182.035	302.0927	0.25557
208	hsa-miR-21-3p	1717.41	930.2906	2504.529	2.692201
209	hsa-miR-214-3p	110.6382	96.04999	125.2265	1.303763
210	hsa-miR-214-5p	51.25248	34.08225	68.42271	2.007576
211	hsa-miR-215-5p	27143.8	26436.98	27850.62	1.053472
212	hsa-miR-21-5p	33435.72	20417.59	46453.85	2.275187
213	hsa-miR-218-1-3p	248.9037	279.6294	218.1781	0.78024
214	hsa-miR-218-5p	8456.917	9805.619	7108.215	0.724912
215	hsa-miR-219a-2-3p	34000.02	27134.9	40865.14	1.505999
216	hsa-miR-219a-5p	3663.197	1514.336	5812.057	3.838022
217	hsa-miR-219b-3p	3663.584	1515.111	5812.057	3.83606
218	hsa-miR-219b-5p	34018.22	27144.19	40892.25	1.506483
219	hsa-miR-221-3p	31592.7	33475.74	29709.66	0.887498
220	hsa-miR-221-5p	902.4051	914.0241	890.7862	0.974576
221	hsa-miR-222-3p	26516.64	34271.26	18762.02	0.547457
222	hsa-miR-223-3p	1165.252	911.7003	1418.803	1.556216
223	hsa-miR-22-3p	428767.7	483584.6	373950.7	0.773289
224	hsa-miR-22-5p	386.7819	299.7689	473.795	1.580534
225	hsa-miR-2277-3p	56.80376	50.34878	63.25873	1.25641
226	hsa-miR-2277-5p	222.3092	235.4774	209.1411	0.888158

227	hsa-miR-2355-5p	218.1781	216.8871	219.4691	1.011905
228	hsa-miR-23a-3p	70092.35	62317.08	77867.62	1.249539
229	hsa-miR-23b-3p	70011.4	62240.39	77782.42	1.24971
230	hsa-miR-23c	451.719	420.606	482.8319	1.147944
231	hsa-miR-24-1-5p	329.9782	346.2447	313.7117	0.90604
232	hsa-miR-24-2-5p	327.138	339.2733	315.0026	0.928463
233	hsa-miR-24-3p	19149.06	18455.54	19842.58	1.075156
234	hsa-miR-2467-5p	99.66477	65.06612	134.2634	2.063492
235	hsa-miR-25-3p	17049.91	13443.9	20655.91	1.536452
236	hsa-miR-25-5p	57.24654	71.28815	43.20494	0.606061
237	hsa-miR-2681-5p	55.47205	73.13979	37.80432	0.516878
238	hsa-miR-2682-5p	245.418	307.5149	183.3212	0.596138
239	hsa-miR-26a-2-3p	166.2801	140.202	192.3582	1.372007
240	hsa-miR-26a-5p	1806650	1624987	1988312	1.223587
241	hsa-miR-26b-3p	377.3577	318.3592	436.3561	1.370641
242	hsa-miR-26b-5p	68604.99	55673.36	81536.63	1.464554
243	hsa-miR-27a-3p	1076584	865516.5	1287651	1.487725
244	hsa-miR-27b-3p	1075402	864599.4	1286205	1.487631
245	hsa-miR-27b-5p	646.1427	728.1209	564.1646	0.774823
246	hsa-miR-28-3p	15738.26	16093.02	15383.49	0.955911
247	hsa-miR-28-5p	154687.9	162381.8	146993.9	0.905236
248	hsa-miR-296-5p	54.85484	61.10413	48.60556	0.795455
249	hsa-miR-299-3p	335.9168	340.0479	331.7856	0.975702
250	hsa-miR-299-5p	284.4061	457.7866	111.0255	0.242527
251	hsa-miR-29a-3p	61868.07	60605.22	63130.92	1.041675
252	hsa-miR-29a-5p	127.0339	83.65644	170.4113	2.037037
253	hsa-miR-29b-1-5p	62.09683	59.64394	64.54972	1.082251
254	hsa-miR-29b-2-5p	181.9011	172.7351	191.0672	1.106129
255	hsa-miR-29b-3p	17055.46	11763.8	22347.11	1.899651
256	hsa-miR-29c-3p	17081.28	11759.93	22402.63	1.904997
257	hsa-miR-29c-5p	1466.57	1045.706	1887.434	1.804938
258	hsa-miR-301a-3p	975.7336	601.087	1350.38	2.246564
259	hsa-miR-301a-5p	53.69757	55.54921	51.84593	0.933333
260	hsa-miR-301b-3p	201.266	184.354	218.1781	1.183473
261	hsa-miR-3065-3p	12620.12	7695.618	17544.61	2.279819
262	hsa-miR-3065-5p	142821.2	92084.83	193557.5	2.101948
263	hsa-miR-3074-3p	323.1359	337.7241	308.5477	0.913609
264	hsa-miR-3074-5p	19164.04	18460.96	19867.11	1.076169
265	hsa-miR-30a-3p	11127.08	11812.6	10441.56	0.883934
266	hsa-miR-30a-5p	340713.4	312902.2	368524.7	1.177763
267	hsa-miR-30b-3p	112.1874	176.608	47.76679	0.270468
268	hsa-miR-30b-5p	87710.29	93816.82	81603.76	0.86982
269	hsa-miR-30c-1-3p	308.4186	378.0032	238.834	0.631831
270	hsa-miR-30c-2-3p	420.0896	405.1141	435.0651	1.073932
271	hsa-miR-30c-5p	87605.46	93689.79	81521.14	0.870118

272	hsa-miR-30d-3p	716.1146	909.3765	522.8528	0.574957
273	hsa-miR-30d-5p	169907.8	204811.1	135004.5	0.659166
274	hsa-miR-30e-3p	11993.21	13050.4	10936.01	0.837983
275	hsa-miR-30e-5p	86583.12	55813.56	117352.7	2.102584
276	hsa-miR-3117-3p	172.0896	105.3451	238.834	2.267157
277	hsa-miR-3120-3p	51.25248	34.08225	68.42271	2.007576
278	hsa-miR-3120-5p	112.0583	97.59918	126.5175	1.296296
279	hsa-miR-3123	116.5768	62.74233	170.4113	2.716049
280	hsa-miR-3135b	3561.725	1323.011	5800.438	4.38427
281	hsa-miR-31-3p	60.71837	74.99143	46.44531	0.619342
282	hsa-miR-3141	185.1286	184.354	185.9032	1.008403
283	hsa-miR-3142	80.68715	19.36492	142.0094	7.333333
284	hsa-miR-3151-3p	423.2541	572.1568	274.3514	0.479504
285	hsa-miR-3158-3p	74.87768	85.20563	64.54972	0.757576
286	hsa-miR-3158-5p	74.87768	85.20563	64.54972	0.757576
287	hsa-miR-31-5p	2895.83	3963.611	1828.048	0.461208
288	hsa-miR-3161	367.6752	27.88548	707.465	25.37037
289	hsa-miR-3168	311.7752	232.379	391.1713	1.683333
290	hsa-miR-3176	50.09058	51.12338	49.05779	0.959596
291	hsa-miR-3177-3p	61.56704	77.76889	45.36518	0.583333
292	hsa-miR-3182	83698.66	29344.82	138052.5	4.704493
293	hsa-miR-3184-3p	8233.317	9690.204	6776.43	0.699307
294	hsa-miR-3184-5p	18919.39	21470.27	16368.52	0.762381
295	hsa-miR-3195	97.47008	77.45967	117.4805	1.516667
296	hsa-miR-3196	200.3623	235.4774	165.2473	0.701754
297	hsa-miR-3200-3p	2138.016	3525.964	750.0678	0.212727
298	hsa-miR-3200-5p	97.59918	98.37378	96.82458	0.984252
299	hsa-miR-320a	12971.65	10163.48	15779.83	1.5526
300	hsa-miR-320b	12991.41	10179.75	15803.06	1.552402
301	hsa-miR-320c	12997.99	10185.17	15810.81	1.552336
302	hsa-miR-320d	13005.48	10189.82	15821.14	1.552642
303	hsa-miR-320e	13006.38	10192.92	15819.85	1.552043
304	hsa-miR-323a-3p	5296.821	6598.014	3995.628	0.60558
305	hsa-miR-323a-5p	86.49663	131.6814	41.31182	0.313725
306	hsa-miR-323b-3p	5293.594	6598.014	3989.173	0.604602
307	hsa-miR-32-3p	93.468	103.0214	83.91464	0.814536
308	hsa-miR-324-3p	1049.191	1099.153	999.2297	0.909091
309	hsa-miR-324-5p	1699.594	1398.147	2001.041	1.43121
310	hsa-miR-32-5p	1108.835	660.731	1556.939	2.356389
311	hsa-miR-326	1418.932	1512.013	1325.851	0.876878
312	hsa-miR-328-3p	6666.954	7303.672	6030.235	0.825644
313	hsa-miR-329-3p	1028.019	945.7825	1110.255	1.173901
314	hsa-miR-330-3p	4375.051	4204.511	4545.591	1.081123
315	hsa-miR-330-5p	11022.38	12167.36	9877.399	0.811794
316	hsa-miR-331-3p	3568.825	3910.164	3227.486	0.825409

317	hsa-miR-331-5p	183.5794	189.0016	178.1572	0.942623
318	hsa-miR-335-3p	2700.889	3669.264	1732.515	0.472169
319	hsa-miR-335-5p	3777.708	3988.398	3567.018	0.894348
320	hsa-miR-337-3p	87.40032	72.81209	101.9886	1.400709
321	hsa-miR-337-5p	53.92902	52.77175	55.0863	1.04386
322	hsa-miR-338-3p	142821.8	92084.83	193558.8	2.101962
323	hsa-miR-338-5p	12594.3	7672.38	17516.21	2.283022
324	hsa-miR-339-3p	1969.541	2426.037	1513.045	0.62367
325	hsa-miR-339-5p	14798.67	15127.87	14469.47	0.956477
326	hsa-miR-33a-3p	72.68299	47.2504	98.11558	2.076503
327	hsa-miR-33a-5p	634.3947	459.3358	809.4535	1.762226
328	hsa-miR-33b-5p	4296.817	1960.504	6633.129	3.383379
329	hsa-miR-340-3p	1842.636	1743.617	1941.656	1.113579
330	hsa-miR-340-5p	30136.85	20269.65	40004.04	1.973594
331	hsa-miR-342-3p	16953.21	16075.2	17831.22	1.109237
332	hsa-miR-342-5p	314.0989	380.327	247.8709	0.651731
333	hsa-miR-345-5p	4221.81	5034.104	3409.516	0.677284
334	hsa-miR-346	756.91	802.4821	711.3379	0.886422
335	hsa-miR-34a-3p	68.03541	65.06612	71.00469	1.09127
336	hsa-miR-34a-5p	4924.369	6315.287	3533.452	0.559508
337	hsa-miR-34b-3p	166.2801	132.456	200.1041	1.510721
338	hsa-miR-34b-5p	123.6773	47.2504	200.1041	4.234973
339	hsa-miR-34c-3p	260.91	140.9766	380.8434	2.701465
340	hsa-miR-34c-5p	2332.569	872.1958	3792.942	4.348727
341	hsa-miR-3529-3p	13217.2	9895.472	16538.93	1.671363
342	hsa-miR-3529-5p	83.52734	61.19314	105.8615	1.729958
343	hsa-miR-3605-3p	188.0979	262.5883	113.6075	0.432645
344	hsa-miR-3605-5p	59.25665	68.16451	50.34878	0.738636
345	hsa-miR-3607-3p	199.0713	158.0177	240.125	1.519608
346	hsa-miR-3607-5p	217.4906	21.29386	413.6873	19.42754
347	hsa-miR-3613-3p	54.77769	23.1455	86.40988	3.733333
348	hsa-miR-3613-5p	332.2151	264.7845	399.6457	1.509324
349	hsa-miR-361-3p	2988.523	2783.126	3193.92	1.147602
350	hsa-miR-3615	1003.103	886.9132	1119.292	1.262009
351	hsa-miR-361-5p	7907.728	7196.778	8618.679	1.197575
352	hsa-miR-3617-3p	136.329	129.3576	143.3004	1.107784
353	hsa-miR-3620-3p	90.75691	93.7262	87.78762	0.936639
354	hsa-miR-3620-5p	60.67674	69.7137	51.63978	0.740741
355	hsa-miR-3622a-5p	294.8737	395.3252	194.4222	0.491803
356	hsa-miR-362-5p	344.9537	192.8746	497.0329	2.576975
357	hsa-miR-363-3p	6415.081	6457.812	6372.349	0.986766
358	hsa-miR-3653-5p	65.96468	50.92011	81.00926	1.590909
359	hsa-miR-3656	283.8897	300.5435	267.2359	0.889175
360	hsa-miR-365a-3p	1195.332	1175.838	1214.826	1.033158
361	hsa-miR-365b-3p	1195.332	1175.838	1214.826	1.033158

362	hsa-miR-3681-3p	682933.4	821613.1	544253.6	0.662421
363	hsa-miR-369-3p	1007.105	993.0329	1021.177	1.028341
364	hsa-miR-369-5p	1209.016	1491.099	926.934	0.621645
365	hsa-miR-370-3p	2043.386	2657.641	1429.131	0.537744
366	hsa-miR-370-5p	73.07029	82.88184	63.25873	0.76324
367	hsa-miR-374a-3p	1998.072	1304.421	2691.723	2.063539
368	hsa-miR-374a-5p	2620.59	1505.041	3736.138	2.482416
369	hsa-miR-374b-3p	4763.382	2164.223	7362.541	3.401933
370	hsa-miR-374b-5p	4638.543	2017.824	7259.262	3.597569
371	hsa-miR-374c-3p	4763.899	2166.547	7361.25	3.397688
372	hsa-miR-374c-5p	4762.349	2163.448	7361.25	3.402554
373	hsa-miR-375	1529.441	1006.201	2052.681	2.040031
374	hsa-miR-376a-3p	106.1197	72.81209	139.4274	1.914894
375	hsa-miR-376a-5p	425.6409	436.8725	414.4092	0.948582
376	hsa-miR-376b-3p	104.3124	70.4883	138.1364	1.959707
377	hsa-miR-376c-3p	387.1692	319.9084	454.43	1.4205
378	hsa-miR-377-3p	264.5248	215.3379	313.7117	1.456835
379	hsa-miR-377-5p	550.2218	742.8382	357.6055	0.481404
380	hsa-miR-378a-3p	9125.136	9055.81	9194.462	1.015311
381	hsa-miR-378a-5p	147.8189	139.4274	156.2103	1.12037
382	hsa-miR-378c	9137.788	9075.949	9199.626	1.013627
383	hsa-miR-378d	9305.617	9288.963	9322.271	1.003586
384	hsa-miR-378e	9312.072	9292.836	9331.308	1.00414
385	hsa-miR-378f	212.6268	262.5883	162.6653	0.619469
386	hsa-miR-378g	52.67257	47.2504	58.09475	1.229508
387	hsa-miR-378i	4238.335	5054.243	3422.426	0.677139
388	hsa-miR-379-3p	306.7403	365.6096	247.8709	0.677966
389	hsa-miR-379-5p	2084.698	2862.909	1306.486	0.456349
390	hsa-miR-380-3p	383.5545	381.1016	386.0073	1.012873
391	hsa-miR-381-3p	13326.42	12313.76	14339.08	1.164475
392	hsa-miR-382-3p	239.9959	223.0838	256.9079	1.15162
393	hsa-miR-382-5p	1041.703	1396.598	686.809	0.491773
394	hsa-miR-383-5p	966.1802	1264.916	667.4441	0.527659
395	hsa-miR-3909	327.2671	375.6794	278.8548	0.742268
396	hsa-miR-3912-3p	136.9745	125.4847	148.4644	1.183128
397	hsa-miR-3928-3p	58.74025	69.7137	47.76679	0.685185
398	hsa-miR-3938	61.10413	76.84307	45.36518	0.590361
399	hsa-miR-3943	425.2536	401.2411	449.2661	1.119691
400	hsa-miR-3960	701.463	856.3836	546.5425	0.638198
401	hsa-miR-409-3p	9258.238	12461.71	6054.764	0.485869
402	hsa-miR-409-5p	59.38574	77.45967	41.31182	0.533333
403	hsa-miR-410-3p	24923.68	31461.02	18386.34	0.584417
404	hsa-miR-411-3p	473.0204	540.6685	405.3723	0.749761
405	hsa-miR-411-5p	54314.72	68118.03	40511.41	0.594724
406	hsa-miR-412-3p	498.8403	575.5253	422.1552	0.733513

407	hsa-miR-412-5p	374.1302	612.706	135.5544	0.221239
408	hsa-miR-421	11942.6	10495.01	13390.19	1.275863
409	hsa-miR-423-3p	18883.76	21437.74	16329.79	0.761731
410	hsa-miR-423-5p	8233.317	9690.204	6776.43	0.699307
411	hsa-miR-424-3p	75.91047	78.23426	73.58668	0.940594
412	hsa-miR-424-5p	340.8225	243.998	437.6471	1.793651
413	hsa-miR-425-3p	821.3307	738.9652	903.6961	1.222921
414	hsa-miR-425-5p	6732.536	6425.279	7039.793	1.09564
415	hsa-miR-4262	1153.891	1460.889	846.8924	0.57971
416	hsa-miR-4269	111.1546	94.50079	127.8085	1.352459
417	hsa-miR-4281	189.6471	56.54556	322.7486	5.707763
418	hsa-miR-4284	5458.325	4411.328	6505.321	1.474685
419	hsa-miR-4286	440.6164	388.0729	493.1599	1.270792
420	hsa-miR-429	385.1036	89.85321	680.3541	7.571839
421	hsa-miR-4291	6401.525	4405.131	8397.919	1.906395
422	hsa-miR-4301	7805.666	7574.134	8037.199	1.061138
423	hsa-miR-4306	1247.488	1096.829	1398.147	1.274718
424	hsa-miR-431-3p	1499.877	1677.776	1321.978	0.787935
425	hsa-miR-431-5p	87.91672	144.8496	30.98387	0.213904
426	hsa-miR-4317	69956.02	62191.59	77720.45	1.249694
427	hsa-miR-4323	734.9631	891.5608	578.3655	0.648711
428	hsa-miR-432-3p	50.34878	65.84072	34.85685	0.529412
429	hsa-miR-4324	225838	230847.6	220828.5	0.956598
430	hsa-miR-4325	17002.91	13418.34	20587.49	1.53428
431	hsa-miR-432-5p	3603.424	3845.098	3361.75	0.874295
432	hsa-miR-4326	73.84488	76.68507	71.00469	0.925926
433	hsa-miR-4328	3198.051	2667.711	3728.392	1.3976
434	hsa-miR-433-3p	3258.083	3833.479	2682.686	0.699805
435	hsa-miR-433-5p	105.8615	143.3004	68.42271	0.477477
436	hsa-miR-4436a	51.89798	65.06612	38.72983	0.595238
437	hsa-miR-4443	1296.804	1158.022	1435.586	1.239688
438	hsa-miR-4446-3p	55.90006	54.99636	56.80376	1.032864
439	hsa-miR-4448	11454.99	4496.534	18413.45	4.095033
440	hsa-miR-4454	4684.761	2417.516	6952.005	2.875681
441	hsa-miR-4459	60.54764	72.03749	49.05779	0.681004
442	hsa-miR-4461	300.0271	281.1786	318.8756	1.134068
443	hsa-miR-4474-3p	76.68507	29.43467	123.9355	4.210526
444	hsa-miR-448	108.8308	136.329	81.33265	0.596591
445	hsa-miR-4484	230.8298	229.2806	232.379	1.013514
446	hsa-miR-4485-3p	332.6893	293.5721	371.8064	1.266491
447	hsa-miR-4488	630.3926	678.5467	582.2385	0.858067
448	hsa-miR-4492	254.7132	306.7403	202.6861	0.660774
449	hsa-miR-4497	468.1146	439.1963	497.0329	1.131687
450	hsa-miR-449a	55.16345	63.88159	46.44531	0.727053
451	hsa-miR-4500	224695.4	251113.4	198277.4	0.789593



452	hsa-miR-4508	193.5201	265.6867	121.3535	0.456754
453	hsa-miR-450a-5p	69.8428	63.51693	76.16867	1.199187
454	hsa-miR-450b-5p	154.9193	170.4113	139.4274	0.818182
455	hsa-miR-4516	307.7731	335.4004	280.1458	0.835258
456	hsa-miR-451a	41397.67	43853.79	38941.56	0.887986
457	hsa-miR-4532	1550.743	1463.213	1638.272	1.11964
458	hsa-miR-454-3p	3704.896	2785.45	4624.342	1.660178
459	hsa-miR-454-5p	130.6486	107.6689	153.6283	1.426859
460	hsa-miR-455-3p	449.6534	360.962	538.3447	1.491416
461	hsa-miR-455-5p	197.3931	168.8621	225.924	1.33792
462	hsa-miR-4633-3p	337.3368	27.88548	646.7882	23.19444
463	hsa-miR-4633-5p	337.3368	27.88548	646.7882	23.19444
464	hsa-miR-4640-3p	71.39199	85.98023	56.80376	0.660661
465	hsa-miR-4645-3p	53.44717	37.18064	69.7137	1.875
466	hsa-miR-4652-3p	115.9313	12.39355	219.4691	17.70833
467	hsa-miR-4662a-5p	132.0687	209.9157	54.22177	0.258303
468	hsa-miR-4662b	132.0687	209.9157	54.22177	0.258303
469	hsa-miR-4677-3p	142.2676	142.5258	142.0094	0.996377
470	hsa-miR-4703-3p	103.6669	132.456	74.87768	0.565302
471	hsa-miR-4705	68.16451	62.74233	73.58668	1.17284
472	hsa-miR-4725-3p	71.52109	17.81572	125.2265	7.028986
473	hsa-miR-4746-5p	99.01927	68.9391	129.0994	1.872659
474	hsa-miR-4780	71.52109	64.29152	78.75066	1.2249
475	hsa-miR-4787-3p	164.86	165.7637	163.9563	0.989097
476	hsa-miR-4791	150.1427	109.2181	191.0672	1.749409
477	hsa-miR-4792	120.8195	34.25534	207.3837	6.054054
478	hsa-miR-483-5p	53.44717	79.78346	27.11088	0.339806
479	hsa-miR-484	6086.522	7879.197	4293.848	0.54496
480	hsa-miR-485-3p	1679.196	1823.401	1534.992	0.84183
481	hsa-miR-485-5p	1743.617	2348.577	1138.657	0.484828
482	hsa-miR-486-3p	130312.1	159044.8	101579.3	0.638684
483	hsa-miR-486-5p	130102.4	158821.8	101383.1	0.638345
484	hsa-miR-487a-3p	1206.176	1174.289	1238.064	1.05431
485	hsa-miR-487a-5p	170.6695	231.6044	109.7345	0.473802
486	hsa-miR-487b-3p	6357.373	7639.847	5074.899	0.664267
487	hsa-miR-487b-5p	187.9688	249.4201	126.5175	0.507246
488	hsa-miR-488-3p	1637.11	1604.964	1669.256	1.040058
489	hsa-miR-488-5p	118.7715	139.4274	98.11558	0.703704
490	hsa-miR-490-3p	833.5951	1106.899	560.2916	0.506181
491	hsa-miR-490-5p	153.1119	241.6742	64.54972	0.267094
492	hsa-miR-491-3p	3025.187	1197.526	4852.848	4.052393
493	hsa-miR-491-5p	215.9834	233.1536	198.8131	0.852713
494	hsa-miR-493-3p	64.80792	65.06612	64.54972	0.992063
495	hsa-miR-493-5p	82.49455	87.52942	77.45967	0.884956
496	hsa-miR-494-3p	115.2858	101.4722	129.0994	1.272265

497	hsa-miR-495-3p	1210.824	1125.489	1296.158	1.15164
498	hsa-miR-496	184.4831	304.4165	64.54972	0.212044
499	hsa-miR-497-5p	4088.579	4748.278	3428.881	0.722132
500	hsa-miR-499a-5p	464.4998	357.0891	571.9105	1.601591
501	hsa-miR-499b-3p	463.7252	355.5399	571.9105	1.608569
502	hsa-miR-500a-3p	2959.476	2810.237	3108.715	1.106211
503	hsa-miR-500a-5p	57.44925	38.72983	76.16867	1.966667
504	hsa-miR-500b-3p	2662.031	2544.55	2779.511	1.092339
505	hsa-miR-500b-5p	57.06195	37.95524	76.16867	2.006803
506	hsa-miR-5010-3p	119.5461	129.3576	109.7345	0.848303
507	hsa-miR-501-3p	301.189	306.7403	295.6377	0.963805
508	hsa-miR-501-5p	55.77096	49.57419	61.96773	1.25
509	hsa-miR-502-3p	2954.828	2800.942	3108.715	1.109882
510	hsa-miR-504-5p	1181.131	1574.755	787.5066	0.500082
511	hsa-miR-505-3p	400.4665	235.4774	565.4556	2.401316
512	hsa-miR-5092	225.7949	261.8137	189.7762	0.724852
513	hsa-miR-5096	73.58668	92.9516	54.22177	0.583333
514	hsa-miR-5100	1050.869	263.3629	1838.376	6.980392
515	hsa-miR-514a-3p	50.21968	33.30766	67.13171	2.015504
516	hsa-miR-516a-5p	61.32224	54.22177	68.42271	1.261905
517	hsa-miR-532-3p	135.8126	119.2879	152.3373	1.277056
518	hsa-miR-532-5p	2139.823	1673.129	2606.518	1.55787
519	hsa-miR-539-3p	2151.83	2181.264	2122.395	0.973011
520	hsa-miR-539-5p	705.1412	789.314	620.9683	0.786719
521	hsa-miR-541-3p	52.15618	68.16451	36.14784	0.530303
522	hsa-miR-542-3p	504.3915	487.2213	521.5618	1.070482
523	hsa-miR-543	633.1037	711.0797	555.1276	0.780683
524	hsa-miR-548aa	200.2332	140.9766	259.4899	1.840659
525	hsa-miR-548ab	114.5112	92.177	136.8454	1.484594
526	hsa-miR-548ad-5p	172.7351	113.0911	232.379	2.054795
527	hsa-miR-548ae-5p	199.7168	127.0339	272.3998	2.144309
528	hsa-miR-548ah-3p	238.7049	157.2431	320.1666	2.036125
529	hsa-miR-548am-3p	223.6002	154.1447	293.0557	1.901173
530	hsa-miR-548am-5p	61.06404	51.12338	71.00469	1.388889
531	hsa-miR-548ap-3p	135.9417	93.7262	178.1572	1.900826
532	hsa-miR-548aq-3p	54.54623	19.44222	89.65025	4.611111
533	hsa-miR-548au-3p	88.94952	83.65644	94.24259	1.126543
534	hsa-miR-548au-5p	61.83863	52.67257	71.00469	1.348039
535	hsa-miR-548av-3p	241.9324	161.1161	322.7486	2.003205
536	hsa-miR-548av-5p	512.3957	405.1141	619.6773	1.529637
537	hsa-miR-548aw	56.28736	48.02499	64.54972	1.344086
538	hsa-miR-548ay-5p	189.3889	115.4149	263.3629	2.281879
539	hsa-miR-548d-3p	54.47997	49.57419	59.38574	1.197917
540	hsa-miR-548d-5p	73.07029	40.27903	105.8615	2.628205
541	hsa-miR-548e-3p	54.39193	66.65905	42.12481	0.631944

542	hsa-miR-548k	510.3301	403.5649	617.0953	1.529111
543	hsa-miR-548n	116.3186	94.50079	138.1364	1.461749
544	hsa-miR-548o-3p	224.5039	153.3701	295.6377	1.927609
545	hsa-miR-548o-5p	58.48205	47.2504	69.7137	1.47541
546	hsa-miR-548p	220.3728	150.2718	290.4738	1.93299
547	hsa-miR-548q	119.5461	94.50079	144.5914	1.530055
548	hsa-miR-548t-3p	159.3087	126.2593	192.3582	1.523517
549	hsa-miR-548t-5p	63.51693	22.4633	104.5706	4.655172
550	hsa-miR-548v	68.6809	61.19314	76.16867	1.244726
551	hsa-miR-548z	60.03124	50.34878	69.7137	1.384615
552	hsa-miR-549a	65.32432	71.26289	59.38574	0.833333
553	hsa-miR-550a-3-5p	156.8558	193.6492	120.0625	0.62
554	hsa-miR-550a-3p	156.8558	193.6492	120.0625	0.62
555	hsa-miR-550a-5p	156.8558	193.6492	120.0625	0.62
556	hsa-miR-550b-2-5p	156.8558	193.6492	120.0625	0.62
557	hsa-miR-550b-3p	157.5013	193.6492	121.3535	0.626667
558	hsa-miR-551b-3p	101.6013	76.68507	126.5175	1.649832
559	hsa-miR-5584-5p	52.07738	42.58772	61.56704	1.445652
560	hsa-miR-5585-3p	308.0313	299.7689	316.2936	1.055125
561	hsa-miR-5680	108.9599	168.8621	49.05779	0.29052
562	hsa-miR-5683	230.7007	76.68507	384.7163	5.016835
563	hsa-miR-5684	2039.642	428.352	3650.932	8.523207
564	hsa-miR-5690	80.29985	76.68507	83.91464	1.094276
565	hsa-miR-5699-5p	99.27747	64.29152	134.2634	2.088353
566	hsa-miR-5701	395.0443	228.506	561.5826	2.457627
567	hsa-miR-574-3p	4903.713	2643.698	7163.728	2.709737
568	hsa-miR-574-5p	338.4644	442.542	234.3868	0.529637
569	hsa-miR-576-5p	140.0729	85.20563	194.9402	2.287879
570	hsa-miR-577	16205.85	13110.05	19301.66	1.47228
571	hsa-miR-5787	858.7695	638.2677	1079.271	1.690939
572	hsa-miR-582-3p	2582.118	1965.152	3199.084	1.627907
573	hsa-miR-582-5p	2659.319	2051.132	3267.507	1.593026
574	hsa-miR-584-5p	9017.596	7339.303	10695.89	1.457344
575	hsa-miR-589-3p	87.41285	111.0984	63.72728	0.573611
576	hsa-miR-589-5p	2165.514	2287.384	2043.644	0.893442
577	hsa-miR-590-3p	448.3624	264.1375	632.5873	2.394917
578	hsa-miR-592	415.442	461.6596	369.2244	0.799776
579	hsa-miR-598-3p	5553.729	5738.212	5369.246	0.9357
580	hsa-miR-6073	32512.53	12596.49	52428.58	4.162157
581	hsa-miR-6077	150.4009	108.4435	192.3582	1.77381
582	hsa-miR-6078	75.91047	8.520563	143.3004	16.81818
583	hsa-miR-6089	172.9933	178.1572	167.8293	0.942029
584	hsa-miR-6126	92.3061	30.98387	153.6283	4.958333
585	hsa-miR-6131	310.6898	49.99429	571.3853	11.42901
586	hsa-miR-616-5p	55.31775	55.54921	55.0863	0.991667

587	hsa-miR-619-5p	178.8027	267.2359	90.36961	0.338164
588	hsa-miR-625-3p	1030.73	769.1745	1292.285	1.680094
589	hsa-miR-625-5p	1032.796	770.7237	1294.867	1.680067
590	hsa-miR-628-3p	733.2848	681.6451	784.9246	1.151515
591	hsa-miR-628-5p	3040.292	3822.635	2257.949	0.590679
592	hsa-miR-629-5p	86.88393	58.86935	114.8985	1.951754
593	hsa-miR-641	337.595	333.0766	342.1135	1.027132
594	hsa-miR-642a-3p	58.61115	29.43467	87.78762	2.982456
595	hsa-miR-642a-5p	59.25665	29.43467	89.07862	3.026316
596	hsa-miR-642b-3p	59.25665	29.43467	89.07862	3.026316
597	hsa-miR-642b-5p	58.61115	29.43467	87.78762	2.982456
598	hsa-miR-6500-3p	75.65227	106.1197	45.18481	0.425791
599	hsa-miR-6511a-3p	407.4378	369.4826	445.3931	1.205451
600	hsa-miR-6511b-3p	392.5914	470.1802	315.0026	0.669962
601	hsa-miR-6511b-5p	274.3363	313.7117	234.961	0.748971
602	hsa-miR-6516-3p	65.19522	65.84072	64.54972	0.980392
603	hsa-miR-6516-5p	96.43729	119.2879	73.58668	0.616883
604	hsa-miR-652-3p	2235.228	1973.672	2496.783	1.265044
605	hsa-miR-652-5p	120.4498	85.98023	154.9193	1.801802
606	hsa-miR-654-3p	9417.805	12087.58	6748.028	0.558261
607	hsa-miR-654-5p	87.52942	113.0911	61.96773	0.547945
608	hsa-miR-655-3p	1544.288	1478.705	1609.87	1.088703
609	hsa-miR-655-5p	380.9725	315.2608	446.6841	1.416871
610	hsa-miR-656-3p	1006.072	1228.51	783.6336	0.637873
611	hsa-miR-656-5p	53.31181	86.10127	20.52235	0.238351
612	hsa-miR-659-5p	84.43104	106.8943	61.96773	0.57971
613	hsa-miR-660-5p	1612.452	1332.306	1892.598	1.420543
614	hsa-miR-664a-3p	828.8184	476.377	1181.26	2.479675
615	hsa-miR-664a-5p	238.1885	255.6169	220.7601	0.863636
616	hsa-miR-664b-3p	93.2098	65.06612	121.3535	1.865079
617	hsa-miR-665	128.4539	166.5383	90.36961	0.542636
618	hsa-miR-668-3p	822.7508	1166.543	478.9589	0.41058
619	hsa-miR-670-3p	52.8489	65.73323	39.96457	0.607981
620	hsa-miR-671-3p	1121.487	1505.816	737.1578	0.48954
621	hsa-miR-671-5p	171.7023	197.5222	145.8824	0.738562
622	hsa-miR-6716-3p	135.1671	134.7798	135.5544	1.005747
623	hsa-miR-6719-3p	217.6617	183.5794	251.7439	1.371308
624	hsa-miR-6723-5p	155.4357	149.4972	161.3743	1.079447
625	hsa-miR-6724-5p	106.6361	94.50079	118.7715	1.256831
626	hsa-miR-6738-3p	66.22802	58.86935	73.58668	1.25
627	hsa-miR-6743-5p	58.09475	73.58668	42.60282	0.578947
628	hsa-miR-6824-5p	473.1495	495.7419	450.5571	0.908854
629	hsa-miR-6834-5p	83.39824	63.51693	103.2796	1.626016
630	hsa-miR-6836-3p	486.7049	487.9959	485.4139	0.994709
631	hsa-miR-6837-3p	64.42062	72.03749	56.80376	0.78853

632	hsa-miR-6842-3p	395.1734	570.8777	219.4691	0.384441
633	hsa-miR-6868-3p	55.25456	62.74233	47.76679	0.761317
634	hsa-miR-6869-5p	805.5805	1076.689	534.4717	0.496403
635	hsa-miR-6872-3p	9807.814	4013.96	15601.67	3.886852
636	hsa-miR-6875-3p	4171.074	2748.269	5593.879	2.035419
637	hsa-miR-708-3p	152682.7	159973.6	145391.8	0.908849
638	hsa-miR-708-5p	4202.962	4176.625	4229.298	1.012611
639	hsa-miR-7-1-3p	709.4014	604.1854	814.6175	1.348291
640	hsa-miR-7158-3p	259.8772	132.456	387.2983	2.923977
641	hsa-miR-7-2-3p	84.81834	61.19314	108.4435	1.772152
642	hsa-miR-744-3p	534.4717	557.7096	511.2338	0.916667
643	hsa-miR-744-5p	11979.91	14962.88	8996.94	0.601284
644	hsa-miR-758-3p	501.0349	578.6237	423.4462	0.731816
645	hsa-miR-758-5p	2316.819	2371.815	2261.822	0.953625
646	hsa-miR-7-5p	13220.3	9897.796	16542.8	1.671362
647	hsa-miR-760	523.2401	608.833	437.6471	0.71883
648	hsa-miR-7641	581.0766	94.50079	1067.652	11.29781
649	hsa-miR-766-3p	738.5779	892.3354	584.8205	0.655382
650	hsa-miR-767-5p	424.0917	422.1552	426.0282	1.009174
651	hsa-miR-769-3p	378.9069	433.7741	324.0396	0.747024
652	hsa-miR-769-5p	54168.19	56746.95	51589.43	0.909114
653	hsa-miR-7704	12438.99	16339.34	8538.637	0.522581
654	hsa-miR-770-5p	624.7122	645.239	604.1854	0.936375
655	hsa-miR-7706	193.9074	208.3665	179.4482	0.861214
656	hsa-miR-7975	195.973	105.3451	286.6008	2.720588
657	hsa-miR-7977	456.1207	540.6789	371.5625	0.687215
658	hsa-miR-8060	116.9641	71.26289	162.6653	2.282609
659	hsa-miR-873-3p	2653.123	4529.067	777.1787	0.171598
660	hsa-miR-873-5p	2363.294	2883.049	1843.54	0.639441
661	hsa-miR-874-3p	16287.83	18570.96	14004.71	0.754119
662	hsa-miR-874-5p	1681.262	1793.966	1568.558	0.874352
663	hsa-miR-876-3p	128.3248	168.8621	87.78762	0.519878
664	hsa-miR-877-5p	478.5716	591.7919	365.3514	0.617365
665	hsa-miR-885-3p	212.6268	343.9209	81.33265	0.236486
666	hsa-miR-885-5p	2520.925	3825.733	1216.117	0.317878
667	hsa-miR-887-3p	2150.668	1985.291	2316.044	1.166602
668	hsa-miR-887-5p	142.0094	127.8085	156.2103	1.222222
669	hsa-miR-889-3p	8035.795	11739.01	4332.577	0.369075
670	hsa-miR-889-5p	56.54556	85.98023	27.11088	0.315315
671	hsa-miR-891a-5p	122.1281	175.8334	68.42271	0.389134
672	hsa-miR-924	70.7465	12.39355	129.0994	10.41667
673	hsa-miR-92a-3p	166359.5	128126	204592.9	1.59681
674	hsa-miR-92b-3p	209782.2	247686.6	171877.8	0.693933
675	hsa-miR-92b-5p	123.29	120.0625	126.5175	1.053763
676	hsa-miR-93-3p	160.3415	216.1125	104.5706	0.483871

677	hsa-miR-935	1922.42	2631.305	1213.535	0.461191
678	hsa-miR-93-5p	16041.38	11577.9	20504.86	1.771035
679	hsa-miR-9-3p	9456.405	11911.75	7001.063	0.587744
680	hsa-miR-940	453.1391	639.0423	267.2359	0.418182
681	hsa-miR-941	9996.686	8766.885	11226.49	1.280556
682	hsa-miR-942-5p	50.4572	55.54921	45.36518	0.816667
683	hsa-miR-95-3p	1540.931	1581.726	1500.136	0.948417
684	hsa-miR-95-5p	78.23426	59.64394	96.82458	1.623377
685	hsa-miR-9-5p	392370.3	401991.7	382748.9	0.952131
686	hsa-miR-98-3p	95575.55	123846.4	67304.7	0.543453
687	hsa-miR-98-5p	95718.33	124037.7	67398.95	0.543375
688	hsa-miR-99a-3p	757.0391	509.6846	1004.394	1.970618
689	hsa-miR-99a-5p	46515.95	39757.72	53274.18	1.339971
690	hsa-miR-99b-3p	1097.216	982.1886	1212.244	1.234227
691	hsa-miR-99b-5p	116437.9	111222.8	121653	1.093778