

Table S1. List of differentially expressed miRNAs.

microRNA	log2FoldChange	PValue	change
hsa-mir-520c	9.313815227	2.24E-06	up-regulated
hsa-mir-519a-1	9.215381125	1.53E-09	up-regulated
hsa-mir-518f	8.863044453	1.70E-06	up-regulated
hsa-mir-520b	8.684385888	8.15E-08	up-regulated
hsa-mir-518c	8.340507321	9.94E-07	up-regulated
hsa-mir-520f	8.312747319	5.81E-06	up-regulated
hsa-mir-519b	8.238389322	3.07E-05	up-regulated
hsa-mir-520g	8.212300487	9.84E-06	up-regulated
hsa-mir-516a-2	8.178984776	8.25E-09	up-regulated
hsa-mir-520a	8.151020733	8.89E-07	up-regulated
hsa-mir-520d	8.119084101	8.21E-06	up-regulated
hsa-mir-1323	7.982027463	4.69E-06	up-regulated
hsa-mir-512-1	7.971795976	3.17E-07	up-regulated
hsa-mir-518a-2	7.913718542	5.96E-06	up-regulated
hsa-mir-525	7.790364895	3.62E-06	up-regulated
hsa-mir-518b	7.784577912	1.11E-06	up-regulated
hsa-mir-512-2	7.782736437	3.66E-07	up-regulated
hsa-mir-526b	7.760531056	3.09E-07	up-regulated
hsa-mir-517c	7.689109885	5.46E-05	up-regulated
hsa-mir-518a-1	7.607642457	1.56E-05	up-regulated
hsa-mir-524	7.594467278	1.94E-05	up-regulated
hsa-mir-527	7.571942759	7.49E-06	up-regulated
hsa-mir-516b-1	7.522216786	2.15E-05	up-regulated
hsa-mir-1283-2	7.459349894	3.69E-06	up-regulated
hsa-mir-520h	7.432382552	5.00E-05	up-regulated
hsa-mir-519a-2	7.388575872	4.66E-07	up-regulated
hsa-mir-519d	7.378886055	5.70E-05	up-regulated
hsa-mir-521-1	7.334819143	2.52E-05	up-regulated
hsa-mir-519c	7.333108062	2.93E-05	up-regulated
hsa-mir-523	7.331294789	9.79E-05	up-regulated
hsa-mir-515-2	7.181549851	4.40E-05	up-regulated
hsa-mir-517a	7.126842712	1.34E-05	up-regulated
hsa-mir-517b	7.11118346	1.40E-05	up-regulated
hsa-mir-515-1	6.963544296	2.21E-05	up-regulated
hsa-mir-522	6.942489706	3.68E-06	up-regulated
hsa-mir-518e	6.867412304	2.75E-05	up-regulated
hsa-mir-516a-1	6.807056285	5.64E-07	up-regulated
hsa-mir-498	6.603113739	6.22E-05	up-regulated
hsa-mir-519e	6.432251706	0.000161	up-regulated
hsa-mir-520e	6.22495718	0.000232	up-regulated
hsa-mir-516b-2	6.005907962	0.000185	up-regulated

hsa-mir-1283-1	5.92035594	3.07E-05	up-regulated
hsa-mir-372	5.869644584	9.07E-05	up-regulated
hsa-mir-521-2	5.314326192	0.000112	up-regulated
hsa-mir-210	4.91165479	7.47E-19	up-regulated
hsa-mir-373	4.866223868	0.003119	up-regulated
hsa-mir-371a	4.779955698	0.007649	up-regulated
hsa-mir-767	4.700364459	6.96E-06	up-regulated
hsa-mir-3131	4.624952667	0.000724	up-regulated
hsa-mir-6715b	4.390379548	0.000121	up-regulated
hsa-mir-483	4.288144013	8.29E-06	up-regulated
hsa-mir-147b	4.280101459	1.78E-09	up-regulated
hsa-mir-215	4.23624252	7.85E-06	up-regulated
hsa-mir-105-1	4.134315873	4.79E-05	up-regulated
hsa-mir-518d	4.028342284	0.011494	up-regulated
hsa-mir-105-2	4.023104349	5.02E-05	up-regulated
hsa-mir-301b	3.955217591	3.09E-13	up-regulated
hsa-mir-548y	3.805389577	0.000617	up-regulated
hsa-mir-4523	3.792140758	5.77E-06	up-regulated
hsa-mir-96	3.747287447	1.71E-18	up-regulated
hsa-mir-526a-2	3.65548077	0.021039	up-regulated
hsa-mir-577	3.655434495	0.000167	up-regulated
hsa-mir-135b	3.611007752	1.59E-09	up-regulated
hsa-mir-1251	3.554160591	0.002142	up-regulated
hsa-mir-7112	3.514325192	1.63E-05	up-regulated
hsa-mir-4724	3.513996519	2.08E-08	up-regulated
hsa-mir-7705	3.406631096	4.99E-13	up-regulated
hsa-mir-4756	3.32222468	0.00087	up-regulated
hsa-mir-514b	3.311079598	0.018691	up-regulated
hsa-mir-1293	3.291439254	0.000103	up-regulated
hsa-mir-4446	3.283892048	1.27E-05	up-regulated
hsa-mir-615	3.263086992	1.37E-05	up-regulated
hsa-mir-526a-1	3.200383016	0.019376	up-regulated
hsa-mir-211	3.191595393	0.01196	up-regulated
hsa-mir-18a	3.182326474	1.25E-17	up-regulated
hsa-mir-3944	2.997309045	1.12E-06	up-regulated
hsa-mir-183	2.978545656	5.82E-14	up-regulated
hsa-mir-7974	2.96886678	1.64E-05	up-regulated
hsa-mir-934	2.956132917	2.36E-06	up-regulated
hsa-mir-3660	2.947578296	0.002572	up-regulated
hsa-mir-6728	2.944089572	0.000235	up-regulated
hsa-mir-548x	2.929911573	0.008824	up-regulated
hsa-mir-675	2.886585186	0.000131	up-regulated
hsa-mir-4664	2.878218312	6.97E-08	up-regulated
hsa-mir-1910	2.857938988	1.45E-06	up-regulated

hsa-mir-3189	2.84212627	0.000324	up-regulated
hsa-mir-345	2.816657339	2.78E-12	up-regulated
hsa-mir-203b	2.80122493	0.000289	up-regulated
hsa-mir-5092	2.771726706	6.41E-05	up-regulated
hsa-mir-4652	2.769129675	1.60E-05	up-regulated
hsa-mir-573	2.75602433	0.00105	up-regulated
hsa-mir-4763	2.745639555	0.000796	up-regulated
hsa-mir-33b	2.735975944	5.67E-09	up-regulated
hsa-mir-429	2.727128541	1.12E-09	up-regulated
hsa-mir-31	2.717431868	9.67E-06	up-regulated
hsa-mir-6783	2.71246915	2.10E-07	up-regulated
hsa-mir-138-1	2.706289273	3.71E-05	up-regulated
hsa-mir-6814	2.701886475	8.72E-05	up-regulated
hsa-mir-1305	2.699858489	0.004293	up-regulated
hsa-mir-4665	2.679796052	0.00023	up-regulated
hsa-mir-6754	2.654806857	0.001907	up-regulated
hsa-mir-224	2.645439814	1.24E-06	up-regulated
hsa-mir-489	2.62532597	0.000308	up-regulated
hsa-mir-141	2.611321846	4.09E-12	up-regulated
hsa-mir-335	2.588727982	1.03E-07	up-regulated
hsa-mir-3651	2.577590995	1.27E-06	up-regulated
hsa-mir-3200	2.572132234	6.40E-07	up-regulated
hsa-mir-6844	2.552016951	0.000542	up-regulated
hsa-mir-548f-1	2.533150084	0.009243	up-regulated
hsa-mir-4449	2.528384194	3.38E-05	up-regulated
hsa-mir-192	2.52710855	1.56E-07	up-regulated
hsa-mir-4501	2.488713967	0.012952	up-regulated
hsa-mir-509-1	2.430498894	0.005206	up-regulated
hsa-mir-509-2	2.427391239	0.004018	up-regulated
hsa-mir-449b	2.42615453	0.008802	up-regulated
hsa-mir-138-2	2.416242401	0.000109	up-regulated
hsa-mir-940	2.404070694	2.26E-10	up-regulated
hsa-mir-33a	2.404020322	1.26E-12	up-regulated
hsa-mir-4758	2.393602765	3.37E-05	up-regulated
hsa-mir-1229	2.361930288	1.69E-06	up-regulated
hsa-mir-503	2.352333707	1.57E-10	up-regulated
hsa-mir-612	2.346307959	0.020924	up-regulated
hsa-mir-1915	2.344033818	0.002417	up-regulated
hsa-mir-137	2.331996347	0.01297	up-regulated
hsa-mir-130b	2.322520751	7.62E-15	up-regulated
hsa-mir-6777	2.308593976	0.002085	up-regulated
hsa-mir-551b	2.308541174	0.000517	up-regulated
hsa-mir-559	2.304557871	0.003219	up-regulated
hsa-mir-182	2.30409049	1.53E-10	up-regulated

hsa-mir-449a	2.290866258	0.001329	up-regulated
hsa-mir-3178	2.277143176	0.003279	up-regulated
hsa-mir-3654	2.251311072	0.00245	up-regulated
hsa-mir-3664	2.226066534	0.000627	up-regulated
hsa-mir-216a	2.224664645	0.019868	up-regulated
hsa-mir-877	2.222266526	5.97E-11	up-regulated
hsa-mir-6870	2.217680125	0.003246	up-regulated
hsa-mir-509-3	2.215120587	0.01015	up-regulated
hsa-mir-6742	2.214712211	0.001034	up-regulated
hsa-mir-205	2.210048119	2.01E-06	up-regulated
hsa-mir-3144	2.208954404	0.000536	up-regulated
hsa-mir-200a	2.193711636	6.37E-08	up-regulated
hsa-mir-4636	2.18507862	0.000275	up-regulated
hsa-mir-3136	2.180561074	4.97E-05	up-regulated
hsa-mir-301a	2.17930984	5.53E-12	up-regulated
hsa-mir-4687	2.15968378	0.000191	up-regulated
hsa-mir-217	2.132097404	0.004784	up-regulated
hsa-mir-937	2.130824995	9.27E-08	up-regulated
hsa-mir-6499	2.128829999	0.002538	up-regulated
hsa-mir-1908	2.123776432	0.006157	up-regulated
hsa-mir-5579	2.12148039	0.003679	up-regulated
hsa-mir-466	2.118137918	0.00565	up-regulated
hsa-mir-3911	2.097216984	0.007727	up-regulated
hsa-mir-1277	2.096067426	1.08E-08	up-regulated
hsa-mir-3176	2.086425125	0.00144	up-regulated
hsa-mir-3618	2.077903668	0.001285	up-regulated
hsa-mir-19a	2.074955521	2.18E-14	up-regulated
hsa-mir-6850	2.05858353	0.009331	up-regulated
hsa-mir-548d-1	2.047282872	0.001309	up-regulated
hsa-mir-3198-2	2.033709366	0.007627	up-regulated
hsa-mir-2278	2.017245344	0.005578	up-regulated
hsa-mir-579	2.015876198	2.97E-05	up-regulated
hsa-mir-4638	2.014635903	3.12E-06	up-regulated
hsa-mir-708	2.010143364	4.69E-08	up-regulated
hsa-mir-4745	1.983972005	0.01435	up-regulated
hsa-mir-584	1.97670637	4.67E-07	up-regulated
hsa-mir-20a	1.964123877	1.02E-12	up-regulated
hsa-mir-556	1.956434152	0.000251	up-regulated
hsa-mir-1270	1.947395502	0.000124	up-regulated
hsa-mir-34b	1.94022052	2.60E-05	up-regulated
hsa-mir-3939	1.931058309	0.008817	up-regulated
hsa-mir-3170	1.923349459	3.47E-06	up-regulated
hsa-mir-6797	1.906277887	0.003995	up-regulated
hsa-mir-425	1.906099522	1.15E-12	up-regulated

hsa-mir-149	1.903668944	5.05E-07	up-regulated
hsa-mir-93	1.882795942	1.64E-13	up-regulated
hsa-mir-455	1.882170493	1.48E-08	up-regulated
hsa-mir-3192	1.86927092	0.012775	up-regulated
hsa-mir-2277	1.86816029	4.99E-06	up-regulated
hsa-mir-4713	1.867303826	0.000375	up-regulated
hsa-mir-3117	1.860222683	0.000299	up-regulated
hsa-mir-944	1.85946825	0.000215	up-regulated
hsa-mir-6769a	1.858317974	0.013622	up-regulated
hsa-mir-570	1.857745792	1.54E-05	up-regulated
hsa-mir-4640	1.857642985	0.000361	up-regulated
hsa-mir-4766	1.854375124	0.001811	up-regulated
hsa-mir-6786	1.847112817	0.017678	up-regulated
hsa-mir-935	1.836749959	0.015968	up-regulated
hsa-mir-6793	1.833994557	0.000138	up-regulated
hsa-mir-1254-1	1.820472385	3.38E-05	up-regulated
hsa-mir-4479	1.818812016	0.009797	up-regulated
hsa-mir-6858	1.813802382	0.007067	up-regulated
hsa-mir-3616	1.81151755	0.016558	up-regulated
hsa-mir-3619	1.805496007	0.001279	up-regulated
hsa-mir-200b	1.804599195	5.76E-06	up-regulated
hsa-mir-17	1.799409016	1.05E-14	up-regulated
hsa-mir-3194	1.796045502	0.000618	up-regulated
hsa-mir-6781	1.791879355	0.000495	up-regulated
hsa-mir-6787	1.781747221	0.02054	up-regulated
hsa-mir-671	1.778996922	5.74E-17	up-regulated
hsa-mir-3943	1.77675693	0.016923	up-regulated
hsa-mir-549a	1.77096813	0.007082	up-regulated
hsa-mir-3065	1.768963403	2.99E-05	up-regulated
hsa-mir-1914	1.763051463	0.004549	up-regulated
hsa-mir-20b	1.744497598	0.000411	up-regulated
hsa-mir-1291	1.739918149	4.59E-05	up-regulated
hsa-mir-597	1.736707834	0.012875	up-regulated
hsa-mir-6736	1.733607831	0.009435	up-regulated
hsa-mir-194-2	1.714626745	0.000179	up-regulated
hsa-mir-1227	1.710842266	0.009714	up-regulated
hsa-mir-4802	1.700849157	0.000624	up-regulated
hsa-mir-4778	1.696195059	0.019976	up-regulated
hsa-mir-323b	1.688127998	0.000258	up-regulated
hsa-mir-641	1.68733514	0.004907	up-regulated
hsa-mir-4787	1.686034402	0.003603	up-regulated
hsa-mir-1307	1.681137622	5.95E-14	up-regulated
hsa-mir-508	1.671576302	0.020388	up-regulated
hsa-mir-8072	1.668033799	0.002578	up-regulated

hsa-mir-636	1.666529645	0.00041	up-regulated
hsa-mir-194-1	1.659845772	0.0003	up-regulated
hsa-mir-590	1.654524308	5.61E-15	up-regulated
hsa-mir-6868	1.637882202	0.003448	up-regulated
hsa-mir-642a	1.633107272	9.19E-05	up-regulated
hsa-mir-6885	1.630161447	0.008958	up-regulated
hsa-mir-5582	1.620968609	0.01253	up-regulated
hsa-mir-6773	1.618243721	0.012221	up-regulated
hsa-mir-34c	1.614964573	8.49E-05	up-regulated
hsa-mir-3143	1.613887667	0.004098	up-regulated
hsa-mir-1276	1.60485286	0.011144	up-regulated
hsa-mir-4746	1.603769838	1.26E-06	up-regulated
hsa-mir-3614	1.602339826	0.000176	up-regulated
hsa-mir-616	1.589765535	6.04E-06	up-regulated
hsa-mir-1304	1.585767843	0.000967	up-regulated
hsa-mir-3913-2	1.585343564	6.29E-05	up-regulated
hsa-mir-18b	1.578851437	0.001369	up-regulated
hsa-mir-3074	1.568719875	0.000106	up-regulated
hsa-mir-651	1.562638873	8.64E-09	up-regulated
hsa-mir-21	1.557020165	1.07E-11	up-regulated
hsa-mir-200c	1.553543542	7.12E-06	up-regulated
hsa-mir-106a	1.536149472	9.80E-06	up-regulated
hsa-mir-188	1.534220505	6.51E-07	up-regulated
hsa-mir-3934	1.52996066	2.66E-06	up-regulated
hsa-mir-7-2	1.529227442	0.002753	up-regulated
hsa-mir-4707	1.523662312	0.002676	up-regulated
hsa-mir-4728	1.523633702	0.002815	up-regulated
hsa-mir-1301	1.519645612	1.07E-08	up-regulated
hsa-mir-548o-2	1.51456786	0.000445	up-regulated
hsa-mir-939	1.497446736	9.11E-06	up-regulated
hsa-mir-3662	1.49600179	0.003046	up-regulated
hsa-mir-4777	1.489751527	0.002266	up-regulated
hsa-mir-4754	1.475481714	0.012239	up-regulated
hsa-mir-653	1.47075559	0.000536	up-regulated
hsa-mir-551a	1.470510019	0.013511	up-regulated
hsa-mir-545	1.445821742	0.000746	up-regulated
hsa-mir-3913-1	1.426423142	0.000173	up-regulated
hsa-mir-3613	1.42534338	2.74E-10	up-regulated
hsa-mir-324	1.412506714	1.06E-08	up-regulated
hsa-mir-196a-1	1.410734256	0.008192	up-regulated
hsa-mir-548au	1.409382653	0.002026	up-regulated
hsa-mir-6820	1.386072449	0.001133	up-regulated
hsa-mir-1254-2	1.38516185	0.0054	up-regulated
hsa-mir-6894	1.385023986	0.013672	up-regulated

hsa-mir-548o	1.38422432	0.001082	up-regulated
hsa-mir-3174	1.361470844	0.009525	up-regulated
hsa-mir-3922	1.354030687	0.001377	up-regulated
hsa-mir-548k	1.350237152	0.018989	up-regulated
hsa-mir-339	1.346473417	4.06E-06	up-regulated
hsa-mir-4797	1.346115997	0.008436	up-regulated
hsa-mir-3691	1.33959	0.020332	up-regulated
hsa-mir-7854	1.330316574	0.000208	up-regulated
hsa-mir-643	1.327589765	2.22E-05	up-regulated
hsa-mir-6501	1.320338977	0.002343	up-regulated
hsa-mir-454	1.320217394	2.47E-10	up-regulated
hsa-mir-19b-1	1.31221461	4.17E-10	up-regulated
hsa-mir-639	1.311305938	0.003426	up-regulated
hsa-mir-19b-2	1.298991851	8.62E-10	up-regulated
hsa-mir-181b-1	1.29672512	1.33E-07	up-regulated
hsa-mir-193b	1.296543212	7.29E-06	up-regulated
hsa-mir-1292	1.291489173	0.00086	up-regulated
hsa-mir-550a-1	1.282779455	1.12E-05	up-regulated
hsa-mir-5706	1.278322392	0.004459	up-regulated
hsa-mir-187	1.271120341	0.017367	up-regulated
hsa-mir-6854	1.267843349	2.05E-05	up-regulated
hsa-mir-191	1.262419023	1.03E-07	up-regulated
hsa-mir-181b-2	1.255483845	5.07E-07	up-regulated
hsa-mir-142	1.242094754	0.000606	up-regulated
hsa-mir-550a-2	1.241556561	3.12E-05	up-regulated
hsa-mir-548s	1.238574917	0.014745	up-regulated
hsa-mir-548j	1.197647265	0.000521	up-regulated
hsa-mir-185	1.189806601	1.33E-10	up-regulated
hsa-mir-3652	1.188398895	0.017158	up-regulated
hsa-mir-7706	1.169382588	0.000931	up-regulated
hsa-mir-4668	1.167613538	8.56E-05	up-regulated
hsa-mir-4326	1.154319139	0.004978	up-regulated
hsa-mir-942	1.147001915	4.64E-06	up-regulated
hsa-mir-1226	1.133375397	0.002635	up-regulated
hsa-mir-581	1.132876089	0.021085	up-regulated
hsa-mir-450a-2	1.121742742	2.38E-05	up-regulated
hsa-mir-32	1.11696375	2.83E-07	up-regulated
hsa-mir-1284	1.11562768	0.006422	up-regulated
hsa-mir-15a	1.107216226	2.44E-07	up-regulated
hsa-mir-5684	1.103971364	0.01083	up-regulated
hsa-mir-760	1.09753017	0.012246	up-regulated
hsa-mir-627	1.085435614	2.33E-05	up-regulated
hsa-mir-3928	1.085165008	0.000502	up-regulated
hsa-mir-331	1.075245598	8.02E-07	up-regulated

hsa-mir-5699	1.074684482	0.014453	up-regulated
hsa-mir-452	1.073706316	0.009549	up-regulated
hsa-mir-4662a	1.070404517	0.001176	up-regulated
hsa-mir-5001	1.057400538	0.000424	up-regulated
hsa-mir-1180	1.046014354	0.0004	up-regulated
hsa-mir-576	1.040019445	9.25E-07	up-regulated
hsa-mir-652	1.029456841	1.67E-06	up-regulated
hsa-mir-580	1.028718031	0.002837	up-regulated
hsa-mir-1343	1.007093527	0.021007	up-regulated
hsa-mir-3615	1.005401824	5.03E-06	up-regulated
hsa-mir-5581	1.00291604	0.009646	up-regulated
hsa-mir-219a-1	1.001016639	0.000216	up-regulated
hsa-mir-4661	0.990096674	0.003076	up-regulated
hsa-mir-548v	0.981214337	0.016728	up-regulated
hsa-mir-106b	0.976522754	7.16E-08	up-regulated
hsa-mir-629	0.965824364	6.69E-06	up-regulated
hsa-mir-181a-1	0.952493359	4.53E-06	up-regulated
hsa-mir-92a-1	0.946302267	2.29E-07	up-regulated
hsa-mir-181c	0.945301954	0.000616	up-regulated
hsa-mir-181a-2	0.930237207	1.66E-05	up-regulated
hsa-mir-3607	0.929957293	0.002241	up-regulated
hsa-mir-92a-2	0.92446059	3.07E-07	up-regulated
hsa-mir-6516	0.904609302	0.010006	up-regulated
hsa-mir-450a-1	0.90225362	0.000551	up-regulated
hsa-mir-219b	0.901146097	0.010687	up-regulated
hsa-mir-550a-3	0.876540999	0.002052	up-regulated
hsa-mir-548e	0.873436338	0.00356	up-regulated
hsa-mir-130a	0.862554769	0.001013	up-regulated
hsa-mir-874	0.849034425	0.000524	up-regulated
hsa-mir-3653	0.822276664	0.00997	up-regulated
hsa-mir-769	0.820338999	1.68E-05	up-regulated
hsa-mir-1306	0.813373304	0.001362	up-regulated
hsa-mir-148b	0.805808562	4.99E-08	up-regulated
hsa-mir-744	0.76798761	0.000841	up-regulated
hsa-mir-196b	0.746926201	0.006235	up-regulated
hsa-mir-7-1	0.736729421	0.001525	up-regulated
hsa-mir-501	0.707990623	0.003384	up-regulated
hsa-mir-484	0.697770346	0.000109	up-regulated
hsa-mir-197	0.685931356	0.000766	up-regulated
hsa-mir-589	0.675131288	0.000712	up-regulated
hsa-mir-34a	0.664426076	0.002312	up-regulated
hsa-mir-4677	0.64518839	0.001696	up-regulated
hsa-mir-27a	0.633992179	0.004489	up-regulated
hsa-mir-16-1	0.591857913	0.000402	up-regulated

hsa-mir-423	0.586307339	0.000183	up-regulated
hsa-mir-193a	-0.610335617	0.004636	down-regulated
hsa-mir-101-1	-0.618002414	0.000437	down-regulated
hsa-mir-134	-0.619649003	0.021285	down-regulated
hsa-mir-101-2	-0.629235424	0.000331	down-regulated
hsa-let-7i	-0.64387419	6.33E-06	down-regulated
hsa-mir-664b	-0.645861497	0.001664	down-regulated
hsa-mir-496	-0.6752388	0.021492	down-regulated
hsa-mir-374a	-0.682869296	5.02E-06	down-regulated
hsa-mir-376c	-0.687562966	0.018224	down-regulated
hsa-mir-320a	-0.7068224	6.70E-05	down-regulated
hsa-mir-30c-1	-0.725823268	3.02E-05	down-regulated
hsa-mir-369	-0.732548923	0.008148	down-regulated
hsa-mir-451a	-0.734489818	0.020303	down-regulated
hsa-mir-887	-0.737052719	0.003904	down-regulated
hsa-let-7f-2	-0.788841913	2.74E-06	down-regulated
hsa-mir-487a	-0.79156768	0.009082	down-regulated
hsa-mir-758	-0.793981474	0.010168	down-regulated
hsa-mir-212	-0.79687302	0.001866	down-regulated
hsa-let-7f-1	-0.797141183	2.11E-06	down-regulated
hsa-mir-4999	-0.838603066	0.006018	down-regulated
hsa-mir-370	-0.846494043	0.001681	down-regulated
hsa-mir-574	-0.849607136	3.28E-08	down-regulated
hsa-mir-487b	-0.855550937	0.002154	down-regulated
hsa-mir-30c-2	-0.856773413	1.12E-07	down-regulated
hsa-mir-582	-0.888356431	0.000232	down-regulated
hsa-mir-543	-0.901900078	0.000585	down-regulated
hsa-mir-432	-0.909965245	0.003797	down-regulated
hsa-mir-27b	-0.934646511	4.04E-08	down-regulated
hsa-mir-378d-1	-0.94036427	0.010217	down-regulated
hsa-mir-6716	-0.954983496	6.20E-05	down-regulated
hsa-mir-151b	-0.956151712	9.89E-06	down-regulated
hsa-mir-377	-0.961025184	0.002366	down-regulated
hsa-mir-329-2	-0.964312961	0.006937	down-regulated
hsa-mir-29c	-0.968777212	0.000193	down-regulated
hsa-mir-340	-0.986857028	7.76E-09	down-regulated
hsa-mir-486-1	-0.996224181	0.001399	down-regulated
hsa-mir-497	-0.996996255	2.71E-06	down-regulated
hsa-mir-6717	-1.028754613	0.016514	down-regulated
hsa-mir-486-2	-1.036340986	0.000843	down-regulated
hsa-let-7a-2	-1.041376311	1.92E-09	down-regulated
hsa-mir-381	-1.052948074	1.12E-06	down-regulated
hsa-mir-152	-1.070219295	3.50E-07	down-regulated
hsa-mir-6788	-1.072726576	0.017305	down-regulated

hsa-mir-132	-1.07321609	1.62E-09	down-regulated
hsa-mir-140	-1.078081307	2.92E-13	down-regulated
hsa-mir-299	-1.088849088	1.80E-05	down-regulated
hsa-mir-150	-1.090250739	0.000682	down-regulated
hsa-mir-4424	-1.111171712	0.007932	down-regulated
hsa-mir-30e	-1.127817461	1.79E-16	down-regulated
hsa-mir-26a-2	-1.164480687	8.39E-17	down-regulated
hsa-mir-26a-1	-1.166692138	1.05E-16	down-regulated
hsa-mir-495	-1.181595736	1.06E-06	down-regulated
hsa-mir-127	-1.216812389	3.33E-07	down-regulated
hsa-mir-3926-2	-1.219627278	0.000469	down-regulated
hsa-mir-10b	-1.239783893	9.32E-09	down-regulated
hsa-mir-411	-1.241843192	1.43E-06	down-regulated
hsa-mir-6129	-1.274670785	0.011992	down-regulated
hsa-mir-29a	-1.280117378	1.44E-09	down-regulated
hsa-mir-548aw	-1.283924383	9.18E-05	down-regulated
hsa-mir-654	-1.322371727	6.88E-06	down-regulated
hsa-mir-378a	-1.333314107	3.02E-09	down-regulated
hsa-mir-5091	-1.33804994	0.000265	down-regulated
hsa-mir-3926-1	-1.341131777	0.000118	down-regulated
hsa-mir-1262	-1.35058365	5.89E-07	down-regulated
hsa-mir-337	-1.351143875	2.46E-08	down-regulated
hsa-mir-605	-1.35803536	0.002389	down-regulated
hsa-mir-3617	-1.364192838	0.004104	down-regulated
hsa-mir-365a	-1.372263119	1.10E-13	down-regulated
hsa-mir-365b	-1.380705197	7.91E-14	down-regulated
hsa-mir-379	-1.401652987	1.59E-08	down-regulated
hsa-mir-23b	-1.411286802	8.73E-18	down-regulated
hsa-mir-374b	-1.415227996	8.25E-16	down-regulated
hsa-mir-5089	-1.416365397	0.008466	down-regulated
hsa-mir-5698	-1.441035609	3.86E-05	down-regulated
hsa-mir-378c	-1.464050154	1.53E-11	down-regulated
hsa-mir-218-1	-1.465031923	4.22E-10	down-regulated
hsa-mir-218-2	-1.471174495	4.09E-10	down-regulated
hsa-mir-4732	-1.492183157	0.000255	down-regulated
hsa-mir-585	-1.501298952	3.19E-06	down-regulated
hsa-mir-6843	-1.503993852	0.002202	down-regulated
hsa-mir-4536-2	-1.529557027	4.54E-05	down-regulated
hsa-mir-7156	-1.546231537	3.86E-06	down-regulated
hsa-mir-378d-2	-1.578279426	7.03E-07	down-regulated
hsa-mir-4529	-1.581070576	0.000305	down-regulated
hsa-mir-3622a	-1.59744613	0.000291	down-regulated
hsa-mir-1225	-1.638116449	0.000241	down-regulated
hsa-mir-28	-1.664409907	3.82E-32	down-regulated

hsa-mir-665	-1.678715951	3.90E-06	down-regulated
hsa-mir-204	-1.68392924	0.000148	down-regulated
hsa-mir-6892	-1.710485374	5.31E-15	down-regulated
hsa-mir-202	-1.719757649	8.96E-06	down-regulated
hsa-mir-4536-1	-1.770881478	1.03E-07	down-regulated
hsa-mir-125b-1	-1.807333717	2.31E-13	down-regulated
hsa-mir-125b-2	-1.827736547	1.83E-13	down-regulated
hsa-mir-3154	-1.839382785	7.32E-06	down-regulated
hsa-mir-1911	-1.852047351	0.001622	down-regulated
hsa-mir-3199-1	-1.882584817	1.36E-09	down-regulated
hsa-mir-4740	-2.034143717	1.37E-06	down-regulated
hsa-mir-6512	-2.073660813	7.41E-06	down-regulated
hsa-mir-4786	-2.106804329	6.44E-15	down-regulated
hsa-mir-4770	-2.175893606	1.80E-05	down-regulated
hsa-mir-3195	-2.185858337	2.40E-06	down-regulated
hsa-mir-5683	-2.188589685	9.42E-08	down-regulated
hsa-mir-6761	-2.257320156	1.86E-13	down-regulated
hsa-mir-30a	-2.295984841	4.15E-30	down-regulated
hsa-mir-23c	-2.307327464	1.38E-12	down-regulated
hsa-mir-145	-2.313353173	4.17E-19	down-regulated
hsa-mir-3199-2	-2.369415502	3.39E-21	down-regulated
hsa-mir-100	-2.398201662	8.87E-19	down-regulated
hsa-mir-99a	-2.541524002	4.65E-16	down-regulated
hsa-mir-195	-2.615966386	3.39E-43	down-regulated
hsa-mir-1247	-2.724119872	7.41E-15	down-regulated
hsa-mir-490	-2.762544953	1.48E-09	down-regulated
hsa-mir-139	-2.767510093	1.59E-46	down-regulated
hsa-mir-6507	-2.828707663	3.76E-12	down-regulated
hsa-mir-383	-2.85187606	1.49E-09	down-regulated
hsa-mir-504	-2.858511957	2.44E-23	down-regulated
hsa-mir-5680	-2.860567679	4.18E-15	down-regulated
hsa-let-7c	-2.941344923	1.11E-25	down-regulated
hsa-mir-1258	-2.96599182	8.18E-15	down-regulated
hsa-mir-4510	-3.222725941	3.25E-14	down-regulated
hsa-mir-548ba	-3.374711211	1.02E-17	down-regulated
hsa-mir-133a-2	-3.692348955	8.54E-31	down-regulated
hsa-mir-133a-1	-3.741436723	3.19E-33	down-regulated
hsa-mir-143	-3.837712484	1.76E-55	down-regulated
hsa-mir-1-1	-3.954023907	5.46E-40	down-regulated
hsa-mir-1-2	-3.99775601	3.08E-42	down-regulated
hsa-mir-133b	-4.065789658	2.57E-29	down-regulated
hsa-mir-1298	-4.706744665	4.45E-34	down-regulated
hsa-mir-1912	-4.952161313	3.73E-28	down-regulated

Table S2. Hub miRNAs and their target genes.

miRNA	Official ID	TargetGene	Cumulative weighted context++ score
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	CORO1C	-1.08
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	SMIM14	-1.03
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	ARPC3	-0.99
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	PTPLAD1	-0.97
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	ARCN1	-0.91
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	TAGLN2	-0.85
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	GJA1	-0.84
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	ERMP1	-0.81
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	SERP1	-0.77
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	TMSB4X	-0.74
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	MMD2	-0.69
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	BDNF	-0.68
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	SLC10A7	-0.68
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	G6PD	-0.68
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	SRI	-0.65
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	GLCCI1	-0.65
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	CDK14	-0.65
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	RABEPK	-0.65
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	C5orf51	-0.65
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	RIT2	-0.64
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	KCNIP3	-0.63
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	TMEM243	-0.62
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	POGK	-0.62
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	SLC44A1	-0.61
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	EBPL	-0.61
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	MMD	-0.61
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	SRSF9	-0.61
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	ANKRD29	-0.61
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	UST	-0.6
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	EIF1AX	-0.6
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	ANXA2	-0.59
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	NDRG3	-0.58
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	IGF1	-0.57
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	MAB21L1	-0.56
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	NXT2	-0.55
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	SEPT2	-0.55
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	C9orf152	-0.54
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	PAX3	-0.54
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	RABGAPIL	-0.54
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	MAL2	-0.53
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	MXD1	-0.53

hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	RAB5A	-0.53
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	TMEM178A	-0.52
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	TTR	-0.52
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	GPR137C	-0.52
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	E2F5	-0.51
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	LASP1	-0.51
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	C2orf69	-0.51
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	CCSAP	-0.51
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	HNRNPU	-0.5
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	TWF1	-0.5
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	GPD2	-0.5
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	SPRED1	-0.5
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	GCH1	-0.5
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	TSPAN4	-0.49
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	EDN1	-0.49
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	MSANTD2	-0.49
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	CDON	-0.49
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	TRIM2	-0.49
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	VAMP4	-0.49
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	PAX7	-0.48
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	TNKS2	-0.48
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	PPIB	-0.48
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	GPR6	-0.48
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	CAAP1	-0.48
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	PIRT	-0.48
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	PDCD10	-0.47
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	ABHD2	-0.47
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	BSCL2	-0.47
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	CITED2	-0.47
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	VAMP2	-0.47
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	NCL	-0.46
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	PIGF	-0.45
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	SH3BGRL3	-0.45
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	UNC119B	-0.45
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	CHSY1	-0.45
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	CCND2	-0.45
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	ASH2L	-0.45
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	FBXL14	-0.45
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	TACR1	-0.45
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	WDR48	-0.44
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	CDC42SE1	-0.44
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	LPPR4	-0.44
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	AZIN1	-0.44
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	HIGD1A	-0.44

hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	SEC23B	-0.44
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	MIPOL1	-0.43
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	CLTC	-0.43
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	ZNF281	-0.43
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	TPM4	-0.43
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	SRPK2	-0.42
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	RAB43	-0.42
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	HOXB4	-0.42
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	MAN1C1	-0.42
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	NANP	-0.42
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	CPED1	-0.42
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	SLC25A30	-0.42
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	AP1G1	-0.41
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	CNN3	-0.41
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	SMARCB1	-0.41
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	ADPGK	-0.41
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	PGD	-0.41
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	PDE7A	-0.41
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	ZNF580	-0.41
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	TIMP3	-0.41
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	TPM3	-0.41
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	RNF138	-0.41
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	NFATC2	-0.4
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	DDX5	-0.4
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	ZFP36L1	-0.4
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	RASA1	-0.4
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	KIF2A	-0.4
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	HMGNI	-0.4
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	UBE2H	-0.4
hsa-miR-1-1/hsa-miR-1-2	hsa-miR-1-3p	MON2	-0.4
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has-miR-133a-1/has-miR-133a-2	hsa-miR-133a-3p	AGRP	-1.13
has-miR-133a-1/has-miR-133a-2	hsa-miR-133a-3p	CHCHD6	-1.12
has-miR-133a-1/has-miR-133a-2	hsa-miR-133a-3p	LASP1	-1.11
has-miR-133a-1/has-miR-133a-2	hsa-miR-133a-3p	TOR2A	-1
has-miR-133a-1/has-miR-133a-2	hsa-miR-133a-3p	CD300LB	-0.97
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has-miR-133a-1/has-miR-133a-2	hsa-miR-133a-3p	FOXL2	-0.61
has-miR-133a-1/has-miR-133a-2	hsa-miR-133a-3p	DAPK2	-0.6
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has-miR-133a-1/has-miR-133a-2	hsa-miR-133a-3p	FBXO27	-0.46
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has-miR-28	has-miR-28-5p	NFE2L2	-0.61
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has-miR-28	has-miR-28-5p	CCDC113	-0.4
has-miR-28	has-miR-28-5p	POU6F2	-0.4

has-miR-139	has-miR-139-3p	AL590235.1	-2.48
has-miR-139	has-miR-139-3p	CDR1as	-2.01
has-miR-139	has-miR-139-3p	FN3K	-1.39
has-miR-139	has-miR-139-3p	RP11-297N6.4	-1
has-miR-139	has-miR-139-3p	ANXA2R	-0.79
has-miR-139	has-miR-139-3p	BLOC1S6	-0.69
has-miR-139	has-miR-139-3p	C2CD4D	-0.69
has-miR-139	has-miR-139-3p	C7orf73	-0.68
has-miR-139	has-miR-139-3p	XCL2	-0.68
has-miR-139	has-miR-139-3p	ELK1	-0.67
has-miR-139	has-miR-139-3p	ZNF232	-0.67
has-miR-139	has-miR-139-3p	RAB1A	-0.63
has-miR-139	has-miR-139-3p	ARHGDIB	-0.62
has-miR-139	has-miR-139-3p	AP000974.1	-0.62
has-miR-139	has-miR-139-3p	RPS15A	-0.62
has-miR-139	has-miR-139-3p	RBMXL2	-0.6
has-miR-139	has-miR-139-3p	PAX1	-0.59
has-miR-139	has-miR-139-3p	C19orf35	-0.58
has-miR-139	has-miR-139-3p	SIX5	-0.58
has-miR-139	has-miR-139-3p	OPTC	-0.57
has-miR-139	has-miR-139-3p	ARPC3	-0.57
has-miR-139	has-miR-139-3p	ZNF880	-0.57

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has-miR-139	has-miR-139-3p	AGPAT3	-0.56
has-miR-139	has-miR-139-3p	RHOH	-0.56
has-miR-139	has-miR-139-3p	GNB5	-0.55
has-miR-139	has-miR-139-3p	SDCBP	-0.55
has-miR-139	has-miR-139-3p	LDLRAP1	-0.54
has-miR-139	has-miR-139-3p	TTLL6	-0.54
has-miR-139	has-miR-139-3p	XCL1	-0.54
has-miR-139	has-miR-139-3p	SERPINE1	-0.53
has-miR-139	has-miR-139-3p	ORM2	-0.53
has-miR-139	has-miR-139-3p	CXorf40B	-0.52
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has-miR-139	has-miR-139-3p	TPM2	-0.49
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has-miR-139	has-miR-139-3p	MS4A15	-0.46
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has-miR-139	has-miR-139-3p	GSC2	-0.46
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has-miR-139	has-miR-139-3p	CD6	-0.45

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has-miR-139	has-miR-139-3p	NOB1	-0.44
has-miR-139	has-miR-139-3p	HAP1	-0.44
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has-miR-139	has-miR-139-3p	CLRN1	-0.43
has-miR-139	has-miR-139-3p	BLOC1S3	-0.43
has-miR-139	has-miR-139-3p	RHBG	-0.43
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has-miR-139	has-miR-139-3p	VGLL2	-0.42
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has-miR-139	has-miR-139-3p	HCRT	-0.41
has-miR-139	has-miR-139-3p	C7orf65	-0.41
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has-miR-143	has-miR-143-3p	ASAP3	-0.56
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has-miR-143	has-miR-143-3p	PAN3	-0.42
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has-miR-143	has-miR-143-3p	RASGEF1B	-0.41
has-miR-143	has-miR-143-3p	POLH	-0.4
has-miR-143	has-miR-143-3p	MEDAG	-0.4

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has-miR-145	has-miR-145-5p	FSCN1	-1.03
has-miR-145	has-miR-145-5p	ABHD17C	-1.03
has-miR-145	has-miR-145-5p	MYO5A	-0.84
has-miR-145	has-miR-145-5p	FLI1	-0.84
has-miR-145	has-miR-145-5p	ABRACL	-0.79
has-miR-145	has-miR-145-5p	MBTD1	-0.79
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has-miR-145	has-miR-145-5p	TPT1	-0.73
has-miR-145	has-miR-145-5p	HHEX	-0.71
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has-miR-145	has-miR-145-5p	PGM3	-0.54

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has-miR-145	has-miR-145-5p	DAB2	-0.42
has-miR-145	has-miR-145-5p	DERL2	-0.42
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has-miR-145	has-miR-145-5p	PAPD4	-0.41
has-miR-145	has-miR-145-5p	SERGEF	-0.41
has-miR-145	has-miR-145-5p	VASN	-0.41
has-miR-145	has-miR-145-5p	PRPSAP2	-0.41
has-miR-145	has-miR-145-5p	CITED2	-0.41

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has-miR-145	has-miR-145-5p	KLF5	-0.41
has-miR-145	has-miR-145-5p	GMFB	-0.4
has-miR-145	has-miR-145-5p	SOX9	-0.4
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has-miR-145	has-miR-145-5p	DACH1	-0.4
has-miR-145	has-miR-145-5p	RGS7	-0.4
has-miR-145	has-miR-145-5p	NEDD9	-0.4
has-miR-145	has-miR-145-5p	ST6GALNA	-0.4
has-miR-145	has-miR-145-5p	C3	-0.4
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has-miR-195	has-miR-195-5p	SPRED1	-0.92
has-miR-195	has-miR-195-5p	PLSCR4	-0.91
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has-miR-195	has-miR-195-5p	WNT3A	-0.9
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has-miR-195	has-miR-195-5p	PTH	-0.81
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has-miR-195	has-miR-195-5p	DESI1	-0.75
has-miR-195	has-miR-195-5p	BTLA	-0.75
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has-miR-195	has-miR-195-5p	SPRYD3	-0.73

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has-miR-195	has-miR-195-5p	C1orf21	-0.62
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has-miR-195	has-miR-195-5p	SYS1	-0.54
has-miR-195	has-miR-195-5p	CDK5R1	-0.54
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has-miR-195	has-miR-195-5p	GSKIP	-0.53
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has-miR-133b	has-miR-133b	ELFN1	-0.51
has-miR-133b	has-miR-133b	TXLNA	-0.51
has-miR-133b	has-miR-133b	STOM	-0.51
has-miR-133b	has-miR-133b	NAGS	-0.51
has-miR-133b	has-miR-133b	ANKRD28	-0.51
has-miR-133b	has-miR-133b	SLC6A6	-0.5
has-miR-133b	has-miR-133b	CRTAM	-0.5
has-miR-133b	has-miR-133b	ZC3H11A	-0.5
has-miR-133b	has-miR-133b	PLEKHA3	-0.5
has-miR-133b	has-miR-133b	SFXN2	-0.5
has-miR-133b	has-miR-133b	DCLRE1A	-0.5
has-miR-133b	has-miR-133b	PFAS	-0.49

has-miR-133b	has-miR-133b	KIAA1429	-0.49
has-miR-133b	has-miR-133b	QKI	-0.49
has-miR-133b	has-miR-133b	MAEA	-0.48
has-miR-133b	has-miR-133b	TBPL1	-0.48
has-miR-133b	has-miR-133b	SF3B4	-0.48
has-miR-133b	has-miR-133b	TMEM170B	-0.48
has-miR-133b	has-miR-133b	SOX4	-0.48
has-miR-133b	has-miR-133b	TSPAN18	-0.48
has-miR-133b	has-miR-133b	GCH1	-0.48
has-miR-133b	has-miR-133b	RBMXL1	-0.47
has-miR-133b	has-miR-133b	DCBLD1	-0.47
has-miR-133b	has-miR-133b	SH3GL2	-0.47
has-miR-133b	has-miR-133b	ZNF280C	-0.47
has-miR-133b	has-miR-133b	SLC39A1	-0.47
has-miR-133b	has-miR-133b	METTL21B	-0.47
has-miR-133b	has-miR-133b	FOXC1	-0.46
has-miR-133b	has-miR-133b	PTPRK	-0.46
has-miR-133b	has-miR-133b	WASF2	-0.46
has-miR-133b	has-miR-133b	RAVER1	-0.46
has-miR-133b	has-miR-133b	TRAM2	-0.45
has-miR-133b	has-miR-133b	VAMP2	-0.45
has-miR-133b	has-miR-133b	ZNF710	-0.45
has-miR-133b	has-miR-133b	SEPHS2	-0.45
has-miR-133b	has-miR-133b	EDEM1	-0.45
has-miR-133b	has-miR-133b	TTPAL	-0.45
has-miR-133b	has-miR-133b	SOBP	-0.45
has-miR-133b	has-miR-133b	BTBD3	-0.44
has-miR-133b	has-miR-133b	PDE8B	-0.44
has-miR-133b	has-miR-133b	FAM46A	-0.44
has-miR-133b	has-miR-133b	MAP3K2	-0.44
has-miR-133b	has-miR-133b	TM9SF3	-0.44
has-miR-133b	has-miR-133b	RARB	-0.44
has-miR-133b	has-miR-133b	SPRN	-0.44
has-miR-133b	has-miR-133b	FOXQ1	-0.44
has-miR-133b	has-miR-133b	ZC3H7A	-0.44
has-miR-133b	has-miR-133b	COL8A1	-0.43
has-miR-133b	has-miR-133b	JDP2	-0.43
has-miR-133b	has-miR-133b	POU6F2	-0.43
has-miR-133b	has-miR-133b	SNX15	-0.43
has-miR-133b	has-miR-133b	SNRK	-0.43
		RAD51L3-	
has-miR-133b	has-miR-133b	RFFL	-0.43
has-miR-133b	has-miR-133b	MAML1	-0.43
has-miR-133b	has-miR-133b	CELF6	-0.43

has-miR-133b	has-miR-133b	LHX5	-0.43
has-miR-133b	has-miR-133b	HS2ST1	-0.42
has-miR-133b	has-miR-133b	SGK1	-0.42
has-miR-133b	has-miR-133b	ATP6AP2	-0.42
has-miR-133b	has-miR-133b	ELF3	-0.42
has-miR-133b	has-miR-133b	NUP160	-0.42
has-miR-133b	has-miR-133b	ANKRD46	-0.42
has-miR-133b	has-miR-133b	CERS2	-0.42
has-miR-133b	has-miR-133b	ENPP5	-0.42
has-miR-133b	has-miR-133b	TUBB1	-0.42
has-miR-133b	has-miR-133b	CECR6	-0.41
has-miR-133b	has-miR-133b	GLRA2	-0.41
has-miR-133b	has-miR-133b	PDE1C	-0.41
has-miR-133b	has-miR-133b	SV2A	-0.41
has-miR-133b	has-miR-133b	DUSP1	-0.41
has-miR-133b	has-miR-133b	HAPLN1	-0.41
has-miR-133b	has-miR-133b	THRAP3	-0.41
has-miR-133b	has-miR-133b	VAT1	-0.41
has-miR-133b	has-miR-133b	NDRG1	-0.41
has-miR-133b	has-miR-133b	SYT1	-0.41
has-miR-133b	has-miR-133b	FGF1	-0.4
has-miR-133b	has-miR-133b	SP3	-0.4
has-miR-133b	has-miR-133b	CRK	-0.4
has-miR-133b	has-miR-133b	YPEL2	-0.4
has-miR-133b	has-miR-133b	ANKRD44	-0.4
has-miR-133b	has-miR-133b	MECOM	-0.4
has-miR-133b	has-miR-133b	MED12L	-0.4
has-miR-133b	has-miR-133b	RIMS1	-0.4
has-miR-133b	has-miR-133b	SCN2B	-0.4
has-miR-133b	has-miR-133b	ARFIP2	-0.4

Table S3. Genes targeted by at least 4 hub miRNAs.

Target genes	miRNAs
SYT2	has-miR-133a-1/has-miR-133a-2/has-miR-139/has-miR-3199/has-miR-133b
FOSL2	has-miR-133a-1/has-miR-133a-2/has-miR-143/has-miR-133b/
GABARAPL1	has-miR-133a-1/has-miR-133a-2/has-miR-195/has-miR-133b
GPM6A	has-miR-133a-1/has-miR-133a-2/has-miR-28/has-miR-133b
LASP1	hsa-miR-1-1/hsa-miR-1-2/has-miR-133a-1/has-miR-133a-2/has-miR-133b
TAGLN2	hsa-miR-1-1/hsa-miR-1-2/has-miR-133a-1/has-miR-133a-2/has-miR-133b
TPM4	hsa-miR-1-1/hsa-miR-1-2/has-miR-133a-1/has-miR-133a-2/has-miR-133b
VAPB	has-miR-133a-1/has-miR-133a-2/has-miR-143/has-miR-195