

Figure S1. Heatmap of DEMs in GSE97070. Red indicates that the expression of genes is relatively upregulated, green indicates that the expression of genes is relatively downregulated, black denotes medial expression. DEMs, differentially expressed miRNAs.

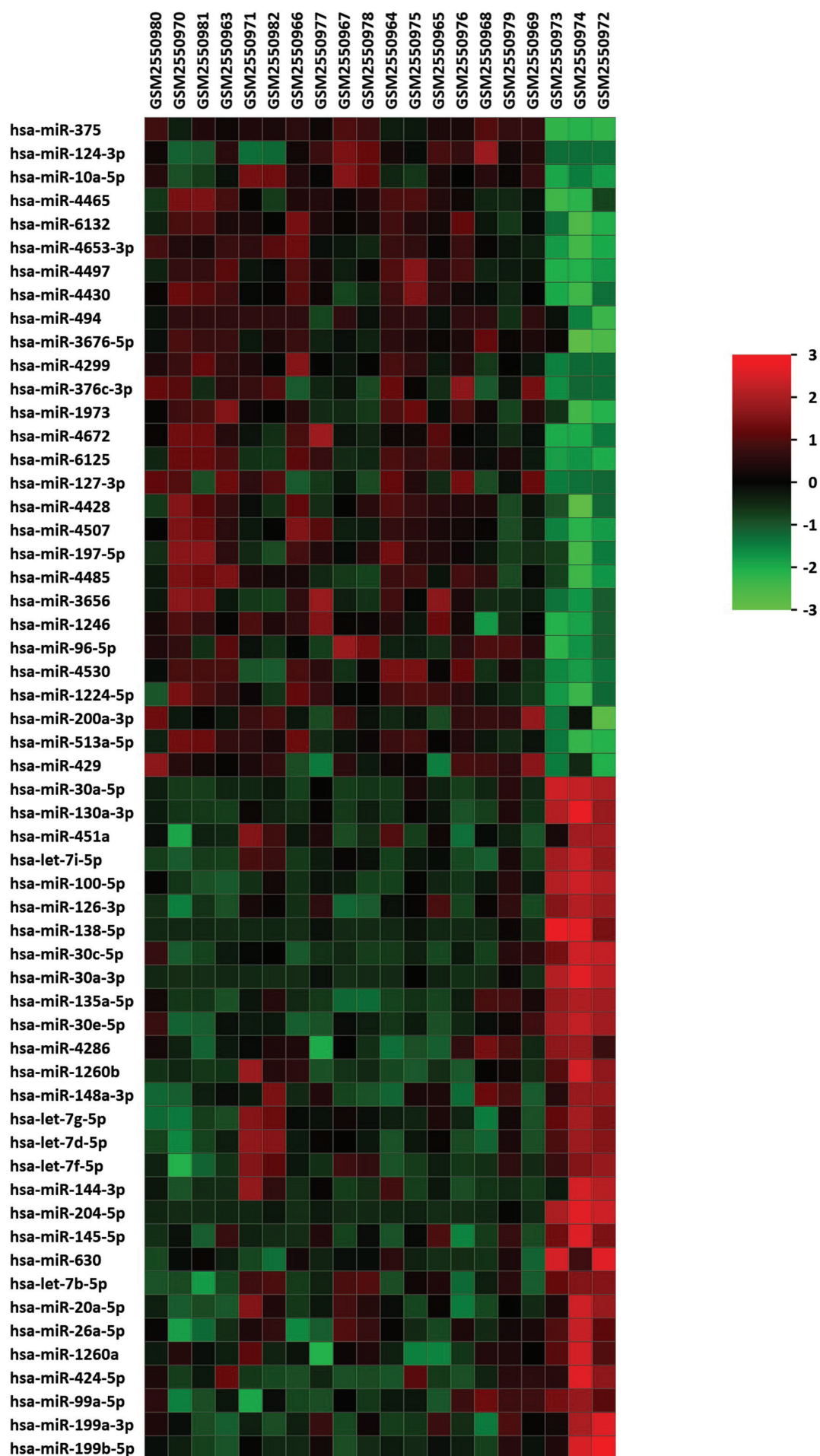


Figure S2. Heatmap of DEMs in GSE40807. Red indicates that the expression of genes is relatively upregulated, green indicates that the expression of genes is relatively downregulated, black denotes medial expression. DEMs, differentially expressed miRNAs.

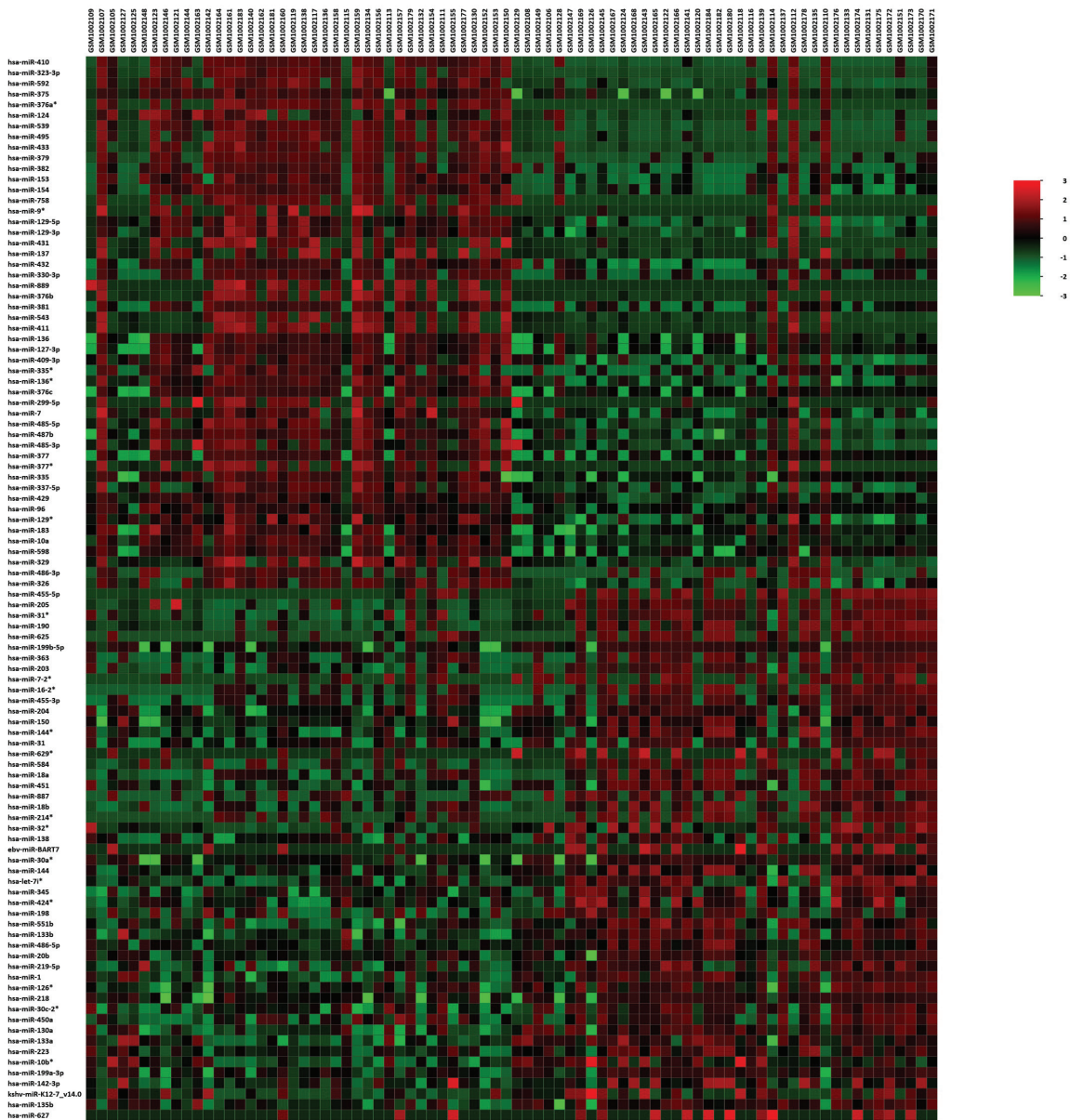


Figure S3. Heatmap of DEGs in GSE27155. Red indicates that the expression of genes is relatively upregulated, green indicates that the expression of genes is relatively downregulated, black denotes medial expression. DEGs, differentially expressed genes.

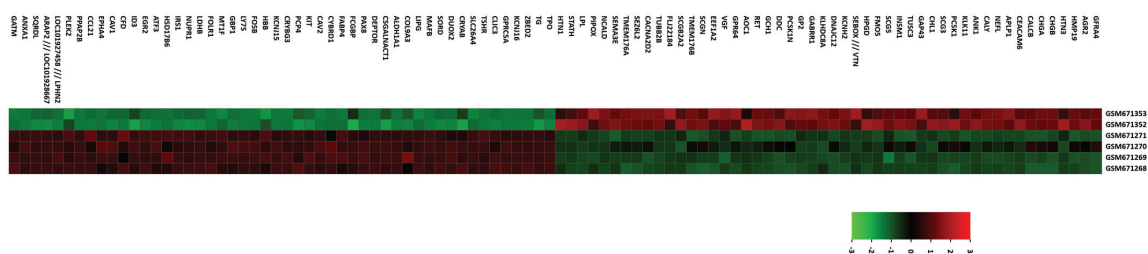


Table SI. DEMs and DEGs from the studied databases.

Row.names(tT)	logFC	AveExpr	P-value	Regulation
DEMs from GSE97070				
hsa-miR-375	4.440019	12.16344	1.74E-09	Upregulated
hsa-miR-4653-3p	1.822132	11.82133	2.25E-07	Upregulated
hsa-miR-6132	1.875581	11.49194	2.05E-06	Upregulated
hsa-miR-4497	1.81861	11.96033	3.54E-06	Upregulated
hsa-miR-513a-5p	1.052413	10.23536	8.22E-06	Upregulated
hsa-miR-4430	1.808513	11.23033	1.98E-05	Upregulated
hsa-miR-4299	1.618985	12.2302	2.88E-05	Upregulated
hsa-miR-6125	1.335757	13.26539	3.18E-05	Upregulated
hsa-miR-4507	1.240228	11.02296	4.66E-05	Upregulated
hsa-miR-494	1.745104	15.72812	5.18E-05	Upregulated
hsa-miR-4672	1.373757	10.64561	7.63E-05	Upregulated
hsa-miR-4465	2.062572	12.04504	9.39E-05	Upregulated
hsa-miR-3676-5p	1.66632	14.12112	9.94E-05	Upregulated
hsa-miR-1224-5p	1.066578	10.83562	0.000112	Upregulated
hsa-miR-10a-5p	2.107992	11.26699	0.000172	Upregulated
hsa-miR-1973	1.537218	11.77771	0.000254	Upregulated
hsa-miR-1246	1.120176	11.29274	0.000279	Upregulated
hsa-miR-96-5p	1.119916	9.830848	0.000381	Upregulated
hsa-miR-4428	1.25406	11.30228	0.000425	Upregulated
hsa-miR-4485	1.179014	10.75887	0.000668	Upregulated
hsa-miR-4530	1.076799	13.88441	0.000942	Upregulated
hsa-miR-197-5p	1.227292	13.10843	0.001428	Upregulated
hsa-miR-200a-3p	1.063943	11.24657	0.003309	Upregulated
hsa-miR-3656	1.150208	11.85585	0.005799	Upregulated
hsa-miR-376c-3p	1.573056	10.0608	0.007086	Upregulated
hsa-miR-127-3p	1.280183	9.656096	0.008373	Upregulated
hsa-miR-429	1.026679	10.3164	0.008419	Upregulated
hsa-miR-124-3p	2.644246	10.55892	0.011331	Upregulated
hsa-miR-204-5p	-1.21857	8.592734	5.82E-17	Downregulated
hsa-miR-30a-3p	-1.69628	8.75597	1.59E-14	Downregulated
hsa-miR-138-5p	-1.90203	8.679782	6.44E-12	Downregulated
hsa-miR-30a-5p	-3.41681	10.07632	2.26E-10	Downregulated
hsa-miR-130a-3p	-2.5573	9.940394	1.13E-09	Downregulated
hsa-miR-100-5p	-2.11685	10.51545	1.19E-09	Downregulated
hsa-miR-30c-5p	-1.87163	9.990161	9.05E-07	Downregulated
hsa-miR-30e-5p	-1.51111	10.02408	1.38E-06	Downregulated
hsa-let-7i-5p	-2.26211	11.59408	2.03E-06	Downregulated
hsa-miR-630	-1.19766	10.29123	3.48E-06	Downregulated
hsa-miR-199b-5p	-1.01108	9.011296	3.51E-06	Downregulated
hsa-miR-135a-5p	-1.61328	9.319175	1.41E-05	Downregulated
hsa-miR-126-3p	-2.02583	11.20645	4.12E-05	Downregulated
hsa-miR-145-5p	-1.21091	10.86925	8.60E-05	Downregulated
hsa-miR-1260b	-1.48542	9.703293	0.000185	Downregulated
hsa-miR-199a-3p	-1.04003	10.89416	0.000765	Downregulated
hsa-miR-424-5p	-1.11739	9.116037	0.000924	Downregulated
hsa-let-7g-5p	-1.46107	11.37862	0.00171	Downregulated
hsa-miR-20a-5p	-1.16931	10.04668	0.001868	Downregulated
hsa-miR-1260a	-1.15428	10.22877	0.002149	Downregulated
hsa-miR-26a-5p	-1.16706	12.64483	0.002735	Downregulated
hsa-miR-144-3p	-1.22513	9.169108	0.003153	Downregulated
hsa-let-7d-5p	-1.36747	10.61576	0.003546	Downregulated
hsa-let-7b-5p	-1.19119	12.84171	0.003705	Downregulated
hsa-miR-4286	-1.50599	12.05277	0.004499	Downregulated
hsa-miR-99a-5p	-1.08061	11.14931	0.004625	Downregulated
hsa-miR-451a	-2.52997	12.62103	0.007241	Downregulated
hsa-let-7f-5p	-1.24195	12.82004	0.00815	Downregulated
hsa-miR-148a-3p	-1.46775	9.813918	0.009026	Downregulated

Table SI. Continued.

Row.names(tT)	logFC	AveExpr	P-value	Regulation
DEMs from GSE40807				
hsa-miR-410	6.828864	2.285745	4.67E-11	Upregulated
hsa-miR-136*	2.687966	4.663532	6.83E-11	Upregulated
hsa-miR-323-3p	5.511556	0.534818	1.37E-10	Upregulated
hsa-miR-592	5.24771	1.739089	1.85E-10	Upregulated
hsa-miR-539	4.944573	1.107184	4.25E-10	Upregulated
hsa-miR-409-3p	2.78365	4.208766	4.66E-10	Upregulated
hsa-miR-129-5p	3.58102	4.442005	5.60E-10	Upregulated
hsa-miR-200a	1.541307	9.718584	7.42E-10	Upregulated
hsa-miR-376a*	5.013811	-0.03058	1.33E-09	Upregulated
hsa-miR-433	4.550678	0.040811	3.69E-09	Upregulated
hsa-miR-129-3p	3.46022	7.171187	7.54E-09	Upregulated
hsa-miR-153	4.417844	3.601475	8.56E-09	Upregulated
hsa-miR-154	3.856852	2.781014	1.16E-08	Upregulated
hsa-miR-200b	1.344931	10.00941	1.29E-08	Upregulated
hsa-miR-375	5.133466	9.752945	1.77E-08	Upregulated
hsa-miR-495	4.752059	0.886568	1.85E-08	Upregulated
hsa-miR-129*	2.201065	4.085338	2.75E-08	Upregulated
hsa-miR-7	2.542401	11.06499	2.98E-08	Upregulated
hsa-miR-485-5p	2.508532	0.545991	3.95E-08	Upregulated
hsa-miR-487b	2.460048	6.299264	9.09E-08	Upregulated
hsa-miR-10a	2.130282	8.445312	1.70E-07	Upregulated
hsa-miR-124	4.962977	2.027531	1.82E-07	Upregulated
hsa-miR-379	4.529103	1.07338	2.31E-07	Upregulated
hsa-miR-376b	3.22339	-1.19162	3.78E-07	Upregulated
hsa-miR-337-5p	2.296677	2.225473	3.85E-07	Upregulated
hsa-miR-654-3p	1.946012	3.587788	5.70E-07	Upregulated
hsa-miR-429	2.290728	8.229466	7.89E-07	Upregulated
hsa-miR-382	4.431816	2.160906	8.18E-07	Upregulated
hsa-miR-758	3.804002	-0.34351	1.54E-06	Upregulated
hsa-miR-889	3.241438	-1.45034	1.82E-06	Upregulated
hsa-miR-431	3.357375	-0.84534	2.75E-06	Upregulated
hsa-miR-485-3p	2.396777	0.642449	3.66E-06	Upregulated
hsa-miR-326	2.074298	1.232367	4.64E-06	Upregulated
hsa-miR-9*	3.673537	-0.805	9.50E-06	Upregulated
hsa-miR-543	2.930782	-0.52763	1.05E-05	Upregulated
hsa-miR-222	1.782017	7.899177	1.40E-05	Upregulated
hsa-miR-377*	2.355532	-1.47866	1.79E-05	Upregulated
hsa-miR-411	2.895098	-1.14016	1.82E-05	Upregulated
hsa-miR-487a	1.63452	1.272955	2.08E-05	Upregulated
hsa-miR-329	2.117155	0.098901	2.27E-05	Upregulated
hsa-miR-369-5p	1.596658	2.410768	3.15E-05	Upregulated
hsa-miR-221	2.065558	7.503466	4.13E-05	Upregulated
hsa-miR-137	3.328142	0.561694	4.19E-05	Upregulated
hsa-miR-431*	1.768367	1.077329	5.42E-05	Upregulated
hsa-miR-132*	1.221809	3.283407	7.53E-05	Upregulated
hsa-miR-136	2.792731	6.473262	0.000149	Upregulated
hsa-miR-183	2.148658	4.79362	0.000166	Upregulated
hsa-miR-330-3p	3.288936	1.778565	0.000185	Upregulated
hsa-miR-409-5p	1.240324	3.121064	0.000192	Upregulated
hsa-miR-335	2.330576	6.875046	0.000195	Upregulated
hsa-miR-432	3.313737	3.876749	0.000263	Upregulated
hsa-miR-182	2.008303	2.330558	0.000269	Upregulated
hsa-miR-493*	1.229018	0.897357	0.000326	Upregulated
hsa-miR-299-5p	2.602032	-1.21022	0.000383	Upregulated
hsa-miR-338-3p	1.13464	7.879974	0.000479	Upregulated
hsa-miR-381	3.156651	2.862026	0.000516	Upregulated
hsa-miR-656	1.53471	-2.55457	0.000627	Upregulated
hsa-miR-598	2.121846	4.465262	0.000658	Upregulated

Table SI. Continued.

Row.names(tT)	logFC	AveExpr	P-value	Regulation
hsa-miR-96	2.285777	6.509502	0.000735	Upregulated
hsa-miR-324-5p	1.697066	6.656203	0.000751	Upregulated
hsa-miR-335*	2.740121	1.650767	0.000772	Upregulated
hsa-miR-337-3p	1.214027	0.800494	0.002917	Upregulated
hsa-miR-127-3p	2.79073	5.173826	0.003334	Upregulated
hsa-miR-301a	1.432406	6.836743	0.003586	Upregulated
hsa-miR-376c	2.673628	6.063113	0.004368	Upregulated
hsa-miR-486-3p	2.098187	0.175003	0.00518	Upregulated
hsa-miR-9	1.139719	4.002881	0.006393	Upregulated
hsa-miR-377	2.366671	4.519029	0.007728	Upregulated
hsa-miR-301b	1.86352	-0.05608	0.009343	Upregulated
hsa-miR-23b*	1.69613	-0.08213	0.010053	Upregulated
hsa-miR-190	-3.20784	0.439457	9.51E-09	Downregulated
hsa-miR-193a-3p	-1.18018	7.174269	4.41E-08	Downregulated
hsa-miR-205	-3.38577	1.314934	6.55E-08	Downregulated
hsa-miR-130a	-1.48067	9.403297	1.52E-07	Downregulated
hsa-miR-551b	-1.77351	3.089478	2.79E-07	Downregulated
hsa-miR-31*	-3.33589	1.863916	3.10E-07	Downregulated
hsa-miR-133b	-1.67326	4.557082	3.97E-07	Downregulated
hsa-miR-451	-2.24115	13.49839	7.89E-07	Downregulated
hsa-let-7i*	-1.85842	1.892757	1.44E-06	Downregulated
hsa-miR-193a-5p	-1.155	4.498296	1.83E-06	Downregulated
hsa-miR-144*	-2.4031	4.646414	2.47E-06	Downregulated
hsa-miR-455-5p	-3.39593	-0.75683	2.72E-06	Downregulated
hsa-miR-133a	-1.45297	2.54495	3.92E-06	Downregulated
hsa-let-7i	-1.16717	11.17533	8.92E-06	Downregulated
hsa-miR-30a	-1.14809	10.27297	1.20E-05	Downregulated
hsa-miR-203	-2.87407	2.28821	1.21E-05	Downregulated
hsa-miR-1	-1.57133	4.983269	1.27E-05	Downregulated
hsa-miR-32*	-2.10885	0.146127	2.61E-05	Downregulated
hsa-miR-219-5p	-1.59957	2.366014	3.00E-05	Downregulated
hsa-miR-625	-3.15905	-0.01262	6.44E-05	Downregulated
hsa-miR-193b*	-1.08482	2.991534	7.13E-05	Downregulated
hsa-miR-18b	-2.11845	1.441305	7.65E-05	Downregulated
hsa-miR-126*	-1.56854	6.235389	8.86E-05	Downregulated
hsa-miR-144	-1.89552	9.481621	0.000115	Downregulated
hsa-miR-199b-5p	-3.05503	6.197278	0.000171	Downregulated
hsa-miR-10b*	-1.3606	2.92712	0.00019	Downregulated
hsa-miR-18a	-2.25376	2.068112	0.000201	Downregulated
hsa-miR-204	-2.70925	4.888368	0.000209	Downregulated
hsa-miR-16-2*	-2.80763	0.481851	0.000212	Downregulated
hsa-miR-584	-2.25392	0.870821	0.000226	Downregulated
hsa-miR-509-5p	-1.03229	-0.42419	0.000284	Downregulated
hsa-miR-126	-1.02196	10.65214	0.00031	Downregulated
hsa-miR-150	-2.55193	6.328288	0.000356	Downregulated
hsa-miR-486-5p	-1.66766	7.318814	0.000386	Downregulated
hsa-miR-345	-1.82179	3.265047	0.000509	Downregulated
hsa-miR-135b	-1.2583	7.951663	0.000544	Downregulated
hsa-miR-424*	-1.79271	3.265253	0.000562	Downregulated
hsa-miR-7-2*	-2.86902	-0.17024	0.000568	Downregulated
hsa-miR-146a	-1.16332	6.562152	0.00065	Downregulated
hsa-miR-199a-3p	-1.34	9.68148	0.000751	Downregulated
hsa-miR-30c-2*	-1.51745	3.104551	0.000841	Downregulated
hsa-miR-629*	-2.27559	-1.3848	0.001015	Downregulated
hsa-miR-223	-1.44216	7.552696	0.001212	Downregulated
hsa-miR-20b	-1.60608	6.307938	0.001424	Downregulated
hsa-miR-20a	-1.10392	8.348945	0.001639	Downregulated
hsa-miR-363	-2.89302	2.17013	0.0023	Downregulated
hsa-miR-455-3p	-2.73195	2.314895	0.002494	Downregulated

Table SI. Continued.

Row.names(tT)	logFC	AveExpr	P-value	Regulation
hsa-miR-139-5p	-1.07885	4.587034	0.002596	Downregulated
ebv-miR-BART7	-2.02329	-1.63505	0.002807	Downregulated
hsa-miR-142-3p	-1.31753	9.303697	0.002847	Downregulated
hsa-miR-298	-1.10943	-0.62715	0.003323	Downregulated
hsa-miR-508-5p	-1.23683	0.247851	0.003972	Downregulated
kshv-miR-K12-10b	-1.22375	1.320569	0.004101	Downregulated
hsa-miR-138	-2.05992	3.414857	0.00454	Downregulated
hsa-miR-198	-1.77458	1.53788	0.00579	Downregulated
hsa-miR-214*	-2.1171	-0.116	0.00649	Downregulated
kshv-miR-K12-7_v14.0	-1.2696	1.452873	0.007155	Downregulated
hsa-miR-339-5p	-1.13932	-2.41816	0.007262	Downregulated
hsa-miR-627	-1.23691	-2.33317	0.007665	Downregulated
hsa-miR-887	-2.20681	0.737424	0.008311	Downregulated
hsa-miR-450a	-1.49968	3.21238	0.009603	Downregulated
hsa-miR-218	-1.53288	5.99174	0.009886	Downregulated
hsa-miR-30a*	-1.90585	5.702441	0.010445	Downregulated
hsa-miR-31	-2.34283	3.409231	0.010788	Downregulated
DEGs from GSE27155				
TUBB2B	1.372159	2.702713	1.02E-07	Upregulated
PITX2	1.29003	2.527024	1.10E-07	Upregulated
NCALD	1.329309	3.18037	1.44E-07	Upregulated
NRXN3	1.180057	2.135692	2.28E-07	Upregulated
MLLT11	1.177872	3.105552	2.28E-07	Upregulated
GRIA2	1.296657	2.131189	3.65E-07	Upregulated
KLHDC8A	1.462239	2.715296	4.40E-07	Upregulated
NEFL	1.734081	2.832964	6.09E-07	Upregulated
LGR5	1.068545	2.535691	7.21E-07	Upregulated
KCNH2	1.475498	2.824351	9.85E-07	Upregulated
GP2	1.440629	2.791025	1.12E-06	Upregulated
SNAP91	1.0637	2.44407	1.18E-06	Upregulated
SPOCK1	1.261797	3.409032	1.20E-06	Upregulated
LOC101927705 /// P4HA2	1.161203	3.336574	1.29E-06	Upregulated
GABRR1	1.461867	2.880123	1.34E-06	Upregulated
CEMIP	1.062087	2.584523	1.50E-06	Upregulated
FRMPD1	1.140724	2.557447	1.63E-06	Upregulated
AMPH	1.21472	2.792357	1.71E-06	Upregulated
C14orf132	1.183519	2.916305	1.73E-06	Upregulated
PCDHA1 /// PCDHA10	1.084702	2.854989	1.73E-06	Upregulated
/// PCDHA11 /// PCDHA12				
/// PCDHA13 /// PCDHA2				
/// PCDHA3 /// PCDHA4				
/// PCDHA5 /// PCDHA6				
/// PCDHA7 /// PCDHA8				
/// PCDHA9 /// PCDHAC1				
/// PCDHAC2				
KIAA1644	1.221097	2.468481	1.96E-06	Upregulated
CDH3	1.248861	2.117929	2.07E-06	Upregulated
PTPRN	1.155418	2.842352	2.36E-06	Upregulated
CPEB1	1.142591	2.079834	2.50E-06	Upregulated
DPYSL3	1.028171	3.127689	2.51E-06	Upregulated
LPL	1.324829	2.975975	2.55E-06	Upregulated
BAMBI	1.09445	2.89117	2.58E-06	Upregulated
ANK1	1.728184	2.853977	2.59E-06	Upregulated
CHL1	1.629467	2.537886	2.87E-06	Upregulated
MEG3	1.153244	2.658751	3.33E-06	Upregulated
CALY	1.729054	2.942736	3.54E-06	Upregulated
CEACAM6	1.789136	3.101502	4.24E-06	Upregulated
MDK	1.016668	2.996857	4.67E-06	Upregulated

Table SI. Continued.

Row.names(tT)	logFC	AveExpr	P-value	Regulation
TAGLN3	1.143779	3.136697	4.88E-06	Upregulated
RET	1.412787	2.872798	6.04E-06	Upregulated
CRMP1	1.195817	3.049703	7.14E-06	Upregulated
SNTG2	1.164939	2.204449	7.87E-06	Upregulated
INSM1	1.594975	2.756254	7.89E-06	Upregulated
SEZ6L2	1.364199	3.115657	7.92E-06	Upregulated
HOXB2	1.147927	3.123289	8.81E-06	Upregulated
SMPD3	1.180292	2.558242	9.61E-06	Upregulated
FGF14	1.217642	2.322828	9.93E-06	Upregulated
DUSP4	1.243486	2.54082	1.01E-05	Upregulated
SYT1	1.28999	2.824991	1.06E-05	Upregulated
FABP6	1.302149	2.357125	1.10E-05	Upregulated
INA	1.277387	3.182421	1.22E-05	Upregulated
SIM1	1.039876	2.37578	1.26E-05	Upregulated
DIRAS3	1.305151	2.855362	1.30E-05	Upregulated
FMO5	1.552	2.623378	1.33E-05	Upregulated
ACOT7	1.072325	2.812295	1.34E-05	Upregulated
PTPRN2	1.136431	3.196331	1.37E-05	Upregulated
APLP1	1.739098	2.397157	1.45E-05	Upregulated
EPB41L3	1.056203	2.756403	1.45E-05	Upregulated
MB	1.253104	2.915686	1.56E-05	Upregulated
ABR	1.009102	2.91258	1.59E-05	Upregulated
VGF	1.400148	2.854735	1.65E-05	Upregulated
SEMA3E	1.349958	2.409914	1.77E-05	Upregulated
SNAP25	1.303334	2.977777	2.03E-05	Upregulated
TMEM176A	1.357196	3.521874	2.20E-05	Upregulated
ST18	1.181264	2.487218	2.32E-05	Upregulated
UCHL1	1.104856	3.380363	2.43E-05	Upregulated
FOXA1	1.070139	2.674394	2.45E-05	Upregulated
HOXB7	1.050725	2.733122	2.62E-05	Upregulated
NEFM	1.13997	2.747363	2.76E-05	Upregulated
F5	1.076854	3.009871	2.76E-05	Upregulated
PON3	1.115901	3.530212	2.85E-05	Upregulated
CACNA2D2	1.370586	3.198063	3.10E-05	Upregulated
EDN3	1.005777	3.162997	3.11E-05	Upregulated
DCX	1.018878	2.450449	3.12E-05	Upregulated
GAP43	1.614257	2.634367	3.15E-05	Upregulated
SCGB2A2	1.379396	2.633964	3.27E-05	Upregulated
RNFT2	1.007794	2.223804	3.75E-05	Upregulated
SYNGR3	1.162965	2.270717	3.81E-05	Upregulated
GCH1	1.4206	3.216812	4.18E-05	Upregulated
PRUNE2	1.292814	2.846444	4.33E-05	Upregulated
SLC8A2	1.171859	2.658051	4.60E-05	Upregulated
TNFRSF21	1.104696	2.613816	4.66E-05	Upregulated
KLK11	1.722526	3.037661	5.69E-05	Upregulated
DNAJC12	1.462247	3.060742	5.71E-05	Upregulated
SYN1	1.068504	2.821854	6.35E-05	Upregulated
STATH	1.322384	2.570839	6.44E-05	Upregulated
TMEM176B	1.397241	3.317375	7.21E-05	Upregulated
PIPOX	1.3276	2.81411	7.40E-05	Upregulated
TUBB2A	1.003246	3.26069	8.38E-05	Upregulated
CAMK2B	1.071736	3.128234	9.14E-05	Upregulated
EEF1A2	1.398396	3.06533	9.94E-05	Upregulated
SCG3	1.676361	2.660604	0.000116	Upregulated
AGR2	2.145998	2.641725	0.000119	Upregulated
KCND2	1.026483	2.426972	0.000125	Upregulated
TTR	1.141418	3.00105	0.000126	Upregulated
SEBOX /// VTN	1.495185	2.846662	0.000147	Upregulated
ADCYAP1	1.181338	2.954757	0.000148	Upregulated

Table SI. Continued.

Row.names(tT)	logFC	AveExpr	P-value	Regulation
GPR64	1.40582	3.081794	0.000149	Upregulated
ISL1	1.19653	2.651328	0.00016	Upregulated
SV2A	1.099814	2.77859	0.000171	Upregulated
FBXW7	1.039154	2.687522	0.000176	Upregulated
TMEM158	1.23092	2.364496	0.000186	Upregulated
HTN3	1.932731	2.52282	0.000191	Upregulated
PODXL2	1.130201	2.283378	0.000198	Upregulated
TUBB2A /// TUBB2B	1.196024	2.434692	0.000199	Upregulated
LOC728392	1.11184	3.446652	0.000202	Upregulated
FLJ22184	1.372613	2.159174	0.000218	Upregulated
NAAA	1.044175	2.923473	0.000218	Upregulated
COPG2IT1	1.050346	3.048858	0.000253	Upregulated
TSPAN8	1.116459	3.104295	0.00026	Upregulated
PCSK1N	1.425128	3.439449	0.000287	Upregulated
MYRIP	1.098641	2.449643	0.0003	Upregulated
HPGD	1.502208	2.91336	0.000318	Upregulated
HMP19	2.06573	3.001127	0.000348	Upregulated
DDC	1.424305	2.648227	0.000414	Upregulated
CHGB	1.916872	3.388518	0.000539	Upregulated
SUSD4	1.028462	2.821014	0.000567	Upregulated
TUSC3	1.612519	3.100112	0.000622	Upregulated
HTN1	1.312752	2.66827	0.000641	Upregulated
RBP1	1.027192	3.05646	0.00085	Upregulated
SCGN	1.39803	3.161616	0.000865	Upregulated
STMN2	1.088861	2.50147	0.000914	Upregulated
ASCL1	1.265899	2.704154	0.000952	Upregulated
CHGA	1.840497	3.431732	0.000972	Upregulated
SCG5	1.582354	3.552822	0.001524	Upregulated
CST2	1.057811	2.7287	0.00158	Upregulated
DLK1	1.020193	2.682081	0.001857	Upregulated
AOC1	1.406146	2.715553	0.002145	Upregulated
GFRA4	2.321047	2.924856	0.002337	Upregulated
CALCB	1.833181	3.434569	0.002444	Upregulated
PCSK1	1.682186	2.729679	0.004684	Upregulated
GOLM1	1.100794	3.413968	0.00533	Upregulated
KCNJ16	-1.93378	3.48975	9.15E-09	Downregulated
MAFB	-1.61986	3.440667	3.45E-08	Downregulated
ZBED2	-1.98742	3.220447	4.38E-08	Downregulated
DEPTOR	-1.49953	3.375744	4.43E-08	Downregulated
ALDH1A1	-1.51922	3.278354	6.77E-08	Downregulated
SLC26A4	-1.73219	3.358874	7.77E-08	Downregulated
PPAP2B	-1.24703	3.874048	8.36E-08	Downregulated
GPRC5A	-1.83363	2.927197	9.36E-08	Downregulated
TPO	-2.26432	3.714813	1.34E-07	Downregulated
LIPG	-1.59677	3.420078	1.45E-07	Downregulated
ID4	-1.11849	3.68831	1.47E-07	Downregulated
CRYBG3	-1.37775	3.274244	1.53E-07	Downregulated
LY75	-1.35198	3.080855	1.58E-07	Downregulated
TSHR	-1.75176	3.147033	1.66E-07	Downregulated
MPPED2	-1.13612	2.935183	2.21E-07	Downregulated
KCNJ15	-1.36919	3.212431	2.53E-07	Downregulated
ANXA1	-1.24107	3.635289	2.58E-07	Downregulated
LOC101927458 /// LPHN2	-1.24421	3.109274	3.24E-07	Downregulated
FOSB	-1.35732	3.857066	3.32E-07	Downregulated
CAV2	-1.42271	3.312036	3.66E-07	Downregulated
ZFPM2	-1.09489	2.885375	3.90E-07	Downregulated
SORD	-1.63461	3.560348	3.98E-07	Downregulated
PLS3	-1.13793	3.726588	4.17E-07	Downregulated
IQGAP2	-1.10915	3.067988	4.81E-07	Downregulated

Table SI. Continued.

Row.names(tT)	logFC	AveExpr	P-value	Regulation
JUN	-1.11533	3.445542	5.56E-07	Downregulated
SQRDL	-1.24381	3.05868	5.89E-07	Downregulated
DIO2	-1.21356	3.240559	6.09E-07	Downregulated
EGR2	-1.29543	3.342487	6.50E-07	Downregulated
LDHB	-1.31359	3.779891	6.87E-07	Downregulated
ACSF2	-1.12513	2.79827	7.09E-07	Downregulated
FOLR1	-1.33027	3.155458	8.40E-07	Downregulated
VEGFC	-1.0618	3.105807	1.14E-06	Downregulated
IRS1	-1.30826	3.105258	1.16E-06	Downregulated
CRYZ	-1.07295	3.182046	1.24E-06	Downregulated
C1orf115	-1.23492	3.003095	1.27E-06	Downregulated
ARAP2 /// LOC101928667	-1.24411	2.941452	1.34E-06	Downregulated
PPIC	-1.03756	3.137934	1.37E-06	Downregulated
CLDN8	-1.14876	2.973181	1.45E-06	Downregulated
CYR61	-1.19754	3.816276	1.58E-06	Downregulated
MT1F	-1.33142	4.011288	1.80E-06	Downregulated
GATM	-1.23641	3.135513	1.80E-06	Downregulated
NOTCH2NL	-1.10236	3.266145	1.83E-06	Downregulated
DUOX2	-1.63893	3.133631	2.05E-06	Downregulated
YBX3	-1.03591	2.849782	2.18E-06	Downregulated
CLIC3	-1.8286	3.439066	2.25E-06	Downregulated
TSPAN6	-1.04828	3.103865	2.51E-06	Downregulated
GJA1	-1.22854	3.730772	2.55E-06	Downregulated
GBP1	-1.33494	3.05659	2.74E-06	Downregulated
KCNQ1	-1.06508	2.986773	2.76E-06	Downregulated
NUPR1	-1.31145	3.505725	2.95E-06	Downregulated
PAX8	-1.49149	3.198051	3.10E-06	Downregulated
Mar-01	-1.03395	3.129537	3.14E-06	Downregulated
ST6GALNAC2	-1.10505	2.734189	3.79E-06	Downregulated
ATF3	-1.296	3.577155	3.95E-06	Downregulated
EYA2	-1.1245	2.578248	4.22E-06	Downregulated
CAV1	-1.25575	3.579139	4.24E-06	Downregulated
KIT	-1.38309	3.460979	4.25E-06	Downregulated
SLC2A10	-1.03224	2.889027	4.40E-06	Downregulated
RGS16	-1.05234	3.397255	4.71E-06	Downregulated
SLC12A8	-1.15959	3.062076	4.99E-06	Downregulated
FABP4	-1.45452	3.298122	6.09E-06	Downregulated
RAB23	-1.08631	2.564437	7.23E-06	Downregulated
ACKR3	-1.06006	3.028884	7.31E-06	Downregulated
TG	-2.04134	4.095053	9.03E-06	Downregulated
IMPA2	-1.19431	2.920435	1.12E-05	Downregulated
TBC1D4	-1.08684	3.117168	1.17E-05	Downregulated
CTGF	-1.11667	3.815855	1.31E-05	Downregulated
FAM189A2	-1.0549	3.440769	1.45E-05	Downregulated
INPP5J	-1.05412	3.309957	2.04E-05	Downregulated
ITM2A	-1.03046	3.278272	2.35E-05	Downregulated
EFEMP1	-1.12904	3.324049	2.46E-05	Downregulated
PCP4	-1.38029	3.481816	2.64E-05	Downregulated
PRKX	-1.08772	2.798044	3.30E-05	Downregulated
EPHA4	-1.25211	2.533711	3.45E-05	Downregulated
CSGALNACT1	-1.50748	3.559268	3.99E-05	Downregulated
SLC38A1	-1.09029	3.007804	4.27E-05	Downregulated
CCL21	-1.2509	3.224514	4.76E-05	Downregulated
S100A1	-1.15905	2.866209	4.86E-05	Downregulated
DUSP1	-1.07359	3.650719	5.73E-05	Downregulated
CLIC2	-1.0675	2.85905	6.71E-05	Downregulated
HBB	-1.36716	4.013555	7.65E-05	Downregulated
LTF	-1.06885	2.553896	9.03E-05	Downregulated

Table SI. Continued.

Row.names(tT)	logFC	AveExpr	P-value	Regulation
FHL1	-1.14309	3.401728	5.62E-05	Downregulated
HSD17B6	-1.30721	3.005693	9.31E-05	Downregulated
PLEK2	-1.24678	2.836706	0.000107	Downregulated
ID3	-1.29097	3.641795	0.000128	Downregulated
CITED2	-1.09663	3.490637	0.000138	Downregulated
HBA1 /// HBA2	-1.18799	4.036561	0.00018	Downregulated
CYBRD1	-1.42929	2.65183	0.000249	Downregulated
BHMT2	-1.11742	2.593275	0.00025	Downregulated
CRYAB	-1.69768	3.325171	0.000256	Downregulated
CFD	-1.27435	3.153305	0.000292	Downregulated
NTRK2	-1.07052	3.349469	0.000292	Downregulated
ADIRF	-1.23286	3.299256	0.000303	Downregulated
ZFP36L2	-1.01107	3.017853	0.00047	Downregulated
DSG2	-1.01702	3.192568	0.000646	Downregulated
FCGBP	-1.48712	3.749475	0.000706	Downregulated
COL9A3	-1.55406	3.117123	0.000848	Downregulated
PDE8B	-1.05232	3.633103	0.001396	Downregulated
SMCO4	-1.1338	3.074185	0.001882	Downregulated
MIR6778 /// SHMT1	-1.00962	2.372053	0.00268	Downregulated

Table SII. Target genes of DEMs.

miRNAid	miRNAname	geneID	geneName	geneType	Chromosome
Target genes of hsa-miR-127-3p					
MIMAT0000446	hsa-miR-127-3p	ENSG00000002330	BAD	protein_coding	chr11
MIMAT0000446	hsa-miR-127-3p	ENSG00000177697	CD151	protein_coding	chr11
MIMAT0000446	hsa-miR-127-3p	ENSG00000100796	PPP4R3A	protein_coding	chr14
MIMAT0000446	hsa-miR-127-3p	ENSG00000220205	VAMP2	protein_coding	chr17
MIMAT0000446	hsa-miR-127-3p	ENSG00000101350	KIF3B	protein_coding	chr20
MIMAT0000446	hsa-miR-127-3p	ENSG00000101350	KIF3B	protein_coding	chr20
MIMAT0000446	hsa-miR-127-3p	ENSG00000100412	ACO2	protein_coding	chr22
MIMAT0000446	hsa-miR-127-3p	ENSG00000008735	MAPK8IP2	protein_coding	chr22
MIMAT0000446	hsa-miR-127-3p	ENSG00000151276	MAGI1	protein_coding	chr3
MIMAT0000446	hsa-miR-127-3p	ENSG00000120129	DUSP1	protein_coding	chr5
MIMAT0000446	hsa-miR-127-3p	ENSG00000166681	BEX3	protein_coding	chrX
Target genes of hsa-miR-375					
MIMAT0000728	hsa-miR-375	ENSG00000142867	BCL10	protein_coding	chr1
MIMAT0000728	hsa-miR-375	ENSG00000154380	ENAH	protein_coding	chr1
MIMAT0000728	hsa-miR-375	ENSG00000135744	AGT	protein_coding	chr1
MIMAT0000728	hsa-miR-375	ENSG00000116991	SIPA1L2	protein_coding	chr1
MIMAT0000728	hsa-miR-375	ENSG00000065978	YBX1	protein_coding	chr1
MIMAT0000728	hsa-miR-375	ENSG00000107957	SH3PXD2A	protein_coding	chr10
MIMAT0000728	hsa-miR-375	ENSG00000107957	SH3PXD2A	protein_coding	chr10
MIMAT0000728	hsa-miR-375	ENSG00000107957	SH3PXD2A	protein_coding	chr10
MIMAT0000728	hsa-miR-375	ENSG00000166272	WBP1L	protein_coding	chr10
MIMAT0000728	hsa-miR-375	ENSG00000166272	WBP1L	protein_coding	chr10
MIMAT0000728	hsa-miR-375	ENSG00000166272	WBP1L	protein_coding	chr10
MIMAT0000728	hsa-miR-375	ENSG00000137692	DCUN1D5	protein_coding	chr11
MIMAT0000728	hsa-miR-375	ENSG00000111716	LDHB	protein_coding	chr12
MIMAT0000728	hsa-miR-375	ENSG00000166881	NEMP1	protein_coding	chr12
MIMAT0000728	hsa-miR-375	ENSG00000166881	NEMP1	protein_coding	chr12
MIMAT0000728	hsa-miR-375	ENSG00000139323	POC1B	protein_coding	chr12
MIMAT0000728	hsa-miR-375	ENSG00000139323	POC1B	protein_coding	chr12
MIMAT0000728	hsa-miR-375	ENSG00000139323	POC1B	protein_coding	chr12
MIMAT0000728	hsa-miR-375	ENSG00000139154	AEBP2	protein_coding	chr12
MIMAT0000728	hsa-miR-375	ENSG00000189079	ARID2	protein_coding	chr12
MIMAT0000728	hsa-miR-375	ENSG00000189079	ARID2	protein_coding	chr12
MIMAT0000728	hsa-miR-375	ENSG00000189079	ARID2	protein_coding	chr12
MIMAT0000728	hsa-miR-375	ENSG00000189079	ARID2	protein_coding	chr12
MIMAT0000728	hsa-miR-375	ENSG00000123353	ORMDL2	protein_coding	chr12
MIMAT0000728	hsa-miR-375	ENSG00000011114	BTBD7	protein_coding	chr14
MIMAT0000728	hsa-miR-375	ENSG00000011114	BTBD7	protein_coding	chr14
MIMAT0000728	hsa-miR-375	ENSG00000171723	GPHN	protein_coding	chr14
MIMAT0000728	hsa-miR-375	ENSG00000137801	THBS1	protein_coding	chr15
MIMAT0000728	hsa-miR-375	ENSG00000140262	TCF12	protein_coding	chr15
MIMAT0000728	hsa-miR-375	ENSG00000140262	TCF12	protein_coding	chr15
MIMAT0000728	hsa-miR-375	ENSG00000159556	ISL2	protein_coding	chr15
MIMAT0000728	hsa-miR-375	ENSG00000168807	SNTB2	protein_coding	chr16
MIMAT0000728	hsa-miR-375	ENSG00000168807	SNTB2	protein_coding	chr16
MIMAT0000728	hsa-miR-375	ENSG00000074356	NCBP3	protein_coding	chr17
MIMAT0000728	hsa-miR-375	ENSG00000121067	SPOP	protein_coding	chr17
MIMAT0000728	hsa-miR-375	ENSG00000121067	SPOP	protein_coding	chr17
MIMAT0000728	hsa-miR-375	ENSG00000008294	SPAG9	protein_coding	chr17
MIMAT0000728	hsa-miR-375	ENSG00000108510	MED13	protein_coding	chr17
MIMAT0000728	hsa-miR-375	ENSG00000108510	MED13	protein_coding	chr17
MIMAT0000728	hsa-miR-375	ENSG00000108510	MED13	protein_coding	chr17
MIMAT0000728	hsa-miR-375	ENSG00000175387	SMAD2	protein_coding	chr18
MIMAT0000728	hsa-miR-375	ENSG00000175387	SMAD2	protein_coding	chr18
MIMAT0000728	hsa-miR-375	ENSG00000115414	FN1	protein_coding	chr2
MIMAT0000728	hsa-miR-375	ENSG00000115414	FN1	protein_coding	chr2
MIMAT0000728	hsa-miR-375	ENSG00000123983	ACSL3	protein_coding	chr2

Table SII. Continued.

miRNAid	miRNAname	geneID	geneName	geneType	Chromosome
MIMAT0000728	hsa-miR-375	ENSG00000123983	ACSL3	protein_coding	chr2
MIMAT0000728	hsa-miR-375	ENSG00000163939	PBRM1	protein_coding	chr3
MIMAT0000728	hsa-miR-375	ENSG00000163939	PBRM1	protein_coding	chr3
MIMAT0000728	hsa-miR-375	ENSG00000179021	C3orf38	protein_coding	chr3
MIMAT0000728	hsa-miR-375	ENSG00000179021	C3orf38	protein_coding	chr3
MIMAT0000728	hsa-miR-375	ENSG00000179021	C3orf38	protein_coding	chr3
MIMAT0000728	hsa-miR-375	ENSG00000196428	TSC22D2	protein_coding	chr3
MIMAT0000728	hsa-miR-375	ENSG00000196428	TSC22D2	protein_coding	chr3
MIMAT0000728	hsa-miR-375	ENSG00000196428	TSC22D2	protein_coding	chr3
MIMAT0000728	hsa-miR-375	ENSG00000145431	PDGFC	protein_coding	chr4
MIMAT0000728	hsa-miR-375	ENSG00000168214	RBPJ	protein_coding	chr4
MIMAT0000728	hsa-miR-375	ENSG00000168214	RBPJ	protein_coding	chr4
MIMAT0000728	hsa-miR-375	ENSG00000151718	WWC2	protein_coding	chr4
MIMAT0000728	hsa-miR-375	ENSG00000113369	ARRDC3	protein_coding	chr5
MIMAT0000728	hsa-miR-375	ENSG00000113369	ARRDC3	protein_coding	chr5
MIMAT0000728	hsa-miR-375	ENSG00000113369	ARRDC3	protein_coding	chr5
MIMAT0000728	hsa-miR-375	ENSG00000113369	ARRDC3	protein_coding	chr5
MIMAT0000728	hsa-miR-375	ENSG00000214510	SPINK13	protein_coding	chr5
MIMAT0000728	hsa-miR-375	ENSG00000124783	SSR1	protein_coding	chr6
MIMAT0000728	hsa-miR-375	ENSG00000008083	JARID2	protein_coding	chr6
MIMAT0000728	hsa-miR-375	ENSG00000008083	JARID2	protein_coding	chr6
MIMAT0000728	hsa-miR-375	ENSG00000197461	PDGFA	protein_coding	chr7
MIMAT0000728	hsa-miR-375	ENSG00000146729	NIPSNAP2	protein_coding	chr7
MIMAT0000728	hsa-miR-375	ENSG00000106682	EIF4H	protein_coding	chr7
MIMAT0000728	hsa-miR-375	ENSG00000127947	PTPN12	protein_coding	chr7
MIMAT0000728	hsa-miR-375	ENSG00000164985	PSIP1	protein_coding	chr9
MIMAT0000728	hsa-miR-375	ENSG00000106733	NMRK1	protein_coding	chr9
MIMAT0000728	hsa-miR-375	ENSG00000070159	PTPN3	protein_coding	chr9
MIMAT0000728	hsa-miR-375	ENSG00000165699	TSC1	protein_coding	chr9
MIMAT0000728	hsa-miR-375	ENSG00000165699	TSC1	protein_coding	chr9
MIMAT0000728	hsa-miR-375	ENSG00000165699	TSC1	protein_coding	chr9
MIMAT0000728	hsa-miR-375	ENSG00000148143	ZNF462	protein_coding	chr9
MIMAT0000728	hsa-miR-375	ENSG00000102100	SLC35A2	protein_coding	chrX
MIMAT0000728	hsa-miR-375	ENSG00000101811	CSTF2	protein_coding	chrX
Target genes of hsa-miR-429					
MIMAT0001536	hsa-miR-429	ENSG00000188529	SRSF10	protein_coding	chr1
MIMAT0001536	hsa-miR-429	ENSG00000116704	SLC35D1	protein_coding	chr1
MIMAT0001536	hsa-miR-429	ENSG00000162613	FUBP1	protein_coding	chr1
MIMAT0001536	hsa-miR-429	ENSG00000162613	FUBP1	protein_coding	chr1
MIMAT0001536	hsa-miR-429	ENSG00000067208	EVI5	protein_coding	chr1
MIMAT0001536	hsa-miR-429	ENSG00000116815	CD58	protein_coding	chr1
MIMAT0001536	hsa-miR-429	ENSG00000143067	ZNF697	protein_coding	chr1
MIMAT0001536	hsa-miR-429	ENSG00000143067	ZNF697	protein_coding	chr1
MIMAT0001536	hsa-miR-429	ENSG00000154429	CCSAP	protein_coding	chr1
MIMAT0001536	hsa-miR-429	ENSG00000154429	CCSAP	protein_coding	chr1
MIMAT0001536	hsa-miR-429	ENSG00000154429	CCSAP	protein_coding	chr1
MIMAT0001536	hsa-miR-429	ENSG00000154429	CCSAP	protein_coding	chr1
MIMAT0001536	hsa-miR-429	ENSG00000189266	PNRC2	protein_coding	chr1
MIMAT0001536	hsa-miR-429	ENSG00000189266	PNRC2	protein_coding	chr1
MIMAT0001536	hsa-miR-429	ENSG00000121774	KHDRBS1	protein_coding	chr1
MIMAT0001536	hsa-miR-429	ENSG00000121774	KHDRBS1	protein_coding	chr1
MIMAT0001536	hsa-miR-429	ENSG00000134709	HOOK1	protein_coding	chr1
MIMAT0001536	hsa-miR-429	ENSG00000134709	HOOK1	protein_coding	chr1
MIMAT0001536	hsa-miR-429	ENSG00000134709	HOOK1	protein_coding	chr1
MIMAT0001536	hsa-miR-429	ENSG00000143033	MTF2	protein_coding	chr1
MIMAT0001536	hsa-miR-429	ENSG00000143033	MTF2	protein_coding	chr1
MIMAT0001536	hsa-miR-429	ENSG00000143033	MTF2	protein_coding	chr1
MIMAT0001536	hsa-miR-429	ENSG00000134186	PRPF38B	protein_coding	chr1

Table SII. Continued.

miRNAid	miRNAname	geneID	geneName	geneType	Chromosome
MIMAT0001536	hsa-miR-429	ENSG00000116830	TTF2	protein_coding	chr1
MIMAT0001536	hsa-miR-429	ENSG00000116830	TTF2	protein_coding	chr1
MIMAT0001536	hsa-miR-429	ENSG00000116830	TTF2	protein_coding	chr1
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MIMAT0001536	hsa-miR-429	ENSG00000165424	ZCCHC24	protein_coding	chr10
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MIMAT0001536	hsa-miR-429	ENSG00000127870	RNF6	protein_coding	chr13
MIMAT0001536	hsa-miR-429	ENSG00000178695	KCTD12	protein_coding	chr13
MIMAT0001536	hsa-miR-429	ENSG00000178695	KCTD12	protein_coding	chr13
MIMAT0001536	hsa-miR-429	ENSG00000178695	KCTD12	protein_coding	chr13

Table SII. Continued.

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MIMAT0001536	hsa-miR-429	ENSG00000136153	LMO7	protein_coding	chr13
MIMAT0001536	hsa-miR-429	ENSG00000136153	LMO7	protein_coding	chr13
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MIMAT0001536	hsa-miR-429	ENSG00000165410	CFL2	protein_coding	chr14
MIMAT0001536	hsa-miR-429	ENSG00000174373	RALGAPA1	protein_coding	chr14
MIMAT0001536	hsa-miR-429	ENSG00000139921	TMX1	protein_coding	chr14
MIMAT0001536	hsa-miR-429	ENSG00000139921	TMX1	protein_coding	chr14
MIMAT0001536	hsa-miR-429	ENSG00000089916	GPATCH2L	protein_coding	chr14
MIMAT0001536	hsa-miR-429	ENSG00000071246	VASH1	protein_coding	chr14
MIMAT0001536	hsa-miR-429	ENSG00000071246	VASH1	protein_coding	chr14
MIMAT0001536	hsa-miR-429	ENSG00000104067	TJP1	protein_coding	chr15
MIMAT0001536	hsa-miR-429	ENSG00000138593	SECISBP2L	protein_coding	chr15
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MIMAT0001536	hsa-miR-429	ENSG00000104064	GABPB1	protein_coding	chr15
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MIMAT0001536	hsa-miR-429	ENSG00000166803	PCLAF	protein_coding	chr15
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MIMAT0001536	hsa-miR-429	ENSG00000166734	CASC4	protein_coding	chr15
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MIMAT0001536	hsa-miR-429	ENSG00000104131	EIF3J	protein_coding	chr15
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MIMAT0001536	hsa-miR-429	ENSG00000136381	IREB2	protein_coding	chr15
MIMAT0001536	hsa-miR-429	ENSG00000196678	ERI2	protein_coding	chr16
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MIMAT0001536	hsa-miR-429	ENSG00000103275	UBE2I	protein_coding	chr16
MIMAT0001536	hsa-miR-429	ENSG00000102931	ARL2BP	protein_coding	chr16
MIMAT0001536	hsa-miR-429	ENSG00000102931	ARL2BP	protein_coding	chr16
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MIMAT0001536	hsa-miR-429	ENSG00000224470	ATXN1L	protein_coding	chr16
MIMAT0001536	hsa-miR-429	ENSG00000108819	PPP1R9B	protein_coding	chr17
MIMAT0001536	hsa-miR-429	ENSG00000108510	MED13	protein_coding	chr17
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MIMAT0001536	hsa-miR-429	ENSG00000161547	SRSF2	protein_coding	chr17
MIMAT0001536	hsa-miR-429	ENSG00000141522	ARHGDI1A	protein_coding	chr17
MIMAT0001536	hsa-miR-429	ENSG00000109046	WSB1	protein_coding	chr17
MIMAT0001536	hsa-miR-429	ENSG00000178691	SUZ12	protein_coding	chr17
MIMAT0001536	hsa-miR-429	ENSG00000108946	PRKAR1A	protein_coding	chr17
MIMAT0001536	hsa-miR-429	ENSG00000134769	DTNA	protein_coding	chr18
MIMAT0001536	hsa-miR-429	ENSG00000134769	DTNA	protein_coding	chr18

Table SII. Continued.

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MIMAT0001536	hsa-miR-429	ENSG00000171606	ZNF274	protein_coding	chr19
MIMAT0001536	hsa-miR-429	ENSG00000171606	ZNF274	protein_coding	chr19
MIMAT0001536	hsa-miR-429	ENSG00000152102	FAM168B	protein_coding	chr2
MIMAT0001536	hsa-miR-429	ENSG00000115963	RND3	protein_coding	chr2
MIMAT0001536	hsa-miR-429	ENSG00000115963	RND3	protein_coding	chr2
MIMAT0001536	hsa-miR-429	ENSG00000115216	NRBP1	protein_coding	chr2
MIMAT0001536	hsa-miR-429	ENSG00000075426	FOSL2	protein_coding	chr2
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MIMAT0001536	hsa-miR-429	ENSG00000091436	MAP3K20	protein_coding	chr2
MIMAT0001536	hsa-miR-429	ENSG00000116095	PLEKHA3	protein_coding	chr2
MIMAT0001536	hsa-miR-429	ENSG00000138434	SSFA2	protein_coding	chr2
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MIMAT0001536	hsa-miR-429	ENSG00000138443	ABI2	protein_coding	chr2
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MIMAT0001536	hsa-miR-429	ENSG00000198612	COPS8	protein_coding	chr2
MIMAT0001536	hsa-miR-429	ENSG00000089057	SLC23A2	protein_coding	chr20
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MIMAT0001536	hsa-miR-429	ENSG00000198743	SLC5A3	protein_coding	chr21
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MIMAT0001536	hsa-miR-429	ENSG00000099942	CRKL	protein_coding	chr22
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MIMAT0001536	hsa-miR-429	ENSG00000067560	RHOA	protein_coding	chr3
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MIMAT0001536	hsa-miR-429	ENSG00000163930	BAP1	protein_coding	chr3
MIMAT0001536	hsa-miR-429	ENSG00000163320	CGGBP1	protein_coding	chr3
MIMAT0001536	hsa-miR-429	ENSG00000144909	OSBPL11	protein_coding	chr3
MIMAT0001536	hsa-miR-429	ENSG00000114850	SSR3	protein_coding	chr3
MIMAT0001536	hsa-miR-429	ENSG00000114209	PDCD10	protein_coding	chr3
MIMAT0001536	hsa-miR-429	ENSG00000058063	ATP11B	protein_coding	chr3
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MIMAT0001536	hsa-miR-429	ENSG00000123933	MXD4	protein_coding	chr4
MIMAT0001536	hsa-miR-429	ENSG00000109189	USP46	protein_coding	chr4
MIMAT0001536	hsa-miR-429	ENSG00000109189	USP46	protein_coding	chr4
MIMAT0001536	hsa-miR-429	ENSG00000138668	HNRNPD	protein_coding	chr4
MIMAT0001536	hsa-miR-429	ENSG00000138668	HNRNPD	protein_coding	chr4
MIMAT0001536	hsa-miR-429	ENSG00000150625	GPM6A	protein_coding	chr4

Table SII. Continued.

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MIMAT0001536	hsa-miR-429	ENSG00000174780	SRP72	protein_coding	chr4
MIMAT0001536	hsa-miR-429	ENSG00000168743	NPNT	protein_coding	chr4
MIMAT0001536	hsa-miR-429	ENSG00000138650	PCDH10	protein_coding	chr4
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MIMAT0001536	hsa-miR-429	ENSG00000109654	TRIM2	protein_coding	chr4
MIMAT0001536	hsa-miR-429	ENSG00000153922	CHD1	protein_coding	chr5
MIMAT0001536	hsa-miR-429	ENSG00000145743	FBXL17	protein_coding	chr5
MIMAT0001536	hsa-miR-429	ENSG00000113575	PPP2CA	protein_coding	chr5
MIMAT0001536	hsa-miR-429	ENSG00000120705	ETF1	protein_coding	chr5
MIMAT0001536	hsa-miR-429	ENSG00000113580	NR3C1	protein_coding	chr5
MIMAT0001536	hsa-miR-429	ENSG00000113580	NR3C1	protein_coding	chr5
MIMAT0001536	hsa-miR-429	ENSG00000145730	PAM	protein_coding	chr5
MIMAT0001536	hsa-miR-429	ENSG00000137177	KIF13A	protein_coding	chr6
MIMAT0001536	hsa-miR-429	ENSG00000146112	PPP1R18	protein_coding	chr6
MIMAT0001536	hsa-miR-429	ENSG0000010810	FYN	protein_coding	chr6
MIMAT0001536	hsa-miR-429	ENSG00000164442	CITED2	protein_coding	chr6
MIMAT0001536	hsa-miR-429	ENSG00000112658	SRF	protein_coding	chr6
MIMAT0001536	hsa-miR-429	ENSG00000197081	IGF2R	protein_coding	chr6
MIMAT0001536	hsa-miR-429	ENSG00000112531	QKI	protein_coding	chr6
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MIMAT0001536	hsa-miR-429	ENSG00000105849	TWISTNB	protein_coding	chr7
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MIMAT0001536	hsa-miR-429	ENSG00000146733	PSPH	protein_coding	chr7
MIMAT0001536	hsa-miR-429	ENSG00000106089	STX1A	protein_coding	chr7
MIMAT0001536	hsa-miR-429	ENSG00000170027	YWHAG	protein_coding	chr7
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MIMAT0001536	hsa-miR-429	ENSG00000106683	LIMK1	protein_coding	chr7
MIMAT0001536	hsa-miR-429	ENSG00000198791	CNOT7	protein_coding	chr8
MIMAT0001536	hsa-miR-429	ENSG00000133731	IMPA1	protein_coding	chr8
MIMAT0001536	hsa-miR-429	ENSG00000183808	RBM12B	protein_coding	chr8
MIMAT0001536	hsa-miR-429	ENSG00000136986	DERL1	protein_coding	chr8
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MIMAT0001536	hsa-miR-429	ENSG00000171033	PKIA	protein_coding	chr8
MIMAT0001536	hsa-miR-429	ENSG00000147862	NFIB	protein_coding	chr9
MIMAT0001536	hsa-miR-429	ENSG00000147862	NFIB	protein_coding	chr9
MIMAT0001536	hsa-miR-429	ENSG00000147862	NFIB	protein_coding	chr9
MIMAT0001536	hsa-miR-429	ENSG00000147862	NFIB	protein_coding	chr9

Table SII. Continued.

miRNAid	miRNAname	geneID	geneName	geneType	Chromosome
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MIMAT0001536	hsa-miR-429	ENSG00000147852	VLDLR	protein_coding	chr9
MIMAT0001536	hsa-miR-429	ENSG00000107036	RIC1	protein_coding	chr9
MIMAT0001536	hsa-miR-429	ENSG00000107036	RIC1	protein_coding	chr9
MIMAT0001536	hsa-miR-429	ENSG00000107036	RIC1	protein_coding	chr9
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MIMAT0001536	hsa-miR-429	ENSG00000167081	PBX3	protein_coding	chr9
MIMAT0001536	hsa-miR-429	ENSG00000177189	RPS6KA3	protein_coding	chrX
MIMAT0001536	hsa-miR-429	ENSG00000177189	RPS6KA3	protein_coding	chrX
MIMAT0001536	hsa-miR-429	ENSG00000177189	RPS6KA3	protein_coding	chrX
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MIMAT0001536	hsa-miR-429	ENSG00000177189	RPS6KA3	protein_coding	chrX
MIMAT0001536	hsa-miR-429	ENSG00000197565	COL4A6	protein_coding	chrX
MIMAT0001536	hsa-miR-429	ENSG00000147065	MSN	protein_coding	chrX
MIMAT0001536	hsa-miR-429	ENSG00000147065	MSN	protein_coding	chrX
MIMAT0001536	hsa-miR-429	ENSG00000147065	MSN	protein_coding	chrX
MIMAT0001536	hsa-miR-429	ENSG00000101966	XIAP	protein_coding	chrX
MIMAT0001536	hsa-miR-429	ENSG00000101966	XIAP	protein_coding	chrX
MIMAT0001536	hsa-miR-429	ENSG00000101966	XIAP	protein_coding	chrX
MIMAT0001536	hsa-miR-429	ENSG00000101966	XIAP	protein_coding	chrX
MIMAT0001536	hsa-miR-429	ENSG00000101966	XIAP	protein_coding	chrX
MIMAT0001536	hsa-miR-429	ENSG00000022267	FHL1	protein_coding	chrX
Target genes of hsa-miR-199a-3p					
MIMAT0000232	hsa-miR-199a-3p	ENSG00000159592	GPBP1L1	protein_coding	chr1
MIMAT0000232	hsa-miR-199a-3p	ENSG00000117500	TMED5	protein_coding	chr1
MIMAT0000232	hsa-miR-199a-3p	ENSG00000117500	TMED5	protein_coding	chr1
MIMAT0000232	hsa-miR-199a-3p	ENSG00000117500	TMED5	protein_coding	chr1
MIMAT0000232	hsa-miR-199a-3p	ENSG00000197622	CDC42SE1	protein_coding	chr1
MIMAT0000232	hsa-miR-199a-3p	ENSG00000143126	CELSR2	protein_coding	chr1
MIMAT0000232	hsa-miR-199a-3p	ENSG00000143126	CELSR2	protein_coding	chr1
MIMAT0000232	hsa-miR-199a-3p	ENSG00000138138	ATAD1	protein_coding	chr10
MIMAT0000232	hsa-miR-199a-3p	ENSG00000119986	AVPI1	protein_coding	chr10
MIMAT0000232	hsa-miR-199a-3p	ENSG00000173848	NET1	protein_coding	chr10
MIMAT0000232	hsa-miR-199a-3p	ENSG00000107643	MAPK8	protein_coding	chr10
MIMAT0000232	hsa-miR-199a-3p	ENSG00000168209	DDIT4	protein_coding	chr10
MIMAT0000232	hsa-miR-199a-3p	ENSG00000099194	SCD	protein_coding	chr10
MIMAT0000232	hsa-miR-199a-3p	ENSG00000099194	SCD	protein_coding	chr10
MIMAT0000232	hsa-miR-199a-3p	ENSG00000110721	CHKA	protein_coding	chr11
MIMAT0000232	hsa-miR-199a-3p	ENSG00000110721	CHKA	protein_coding	chr11
MIMAT0000232	hsa-miR-199a-3p	ENSG00000148985	PGAP2	protein_coding	chr11
MIMAT0000232	hsa-miR-199a-3p	ENSG00000148985	PGAP2	protein_coding	chr11
MIMAT0000232	hsa-miR-199a-3p	ENSG00000148985	PGAP2	protein_coding	chr11
MIMAT0000232	hsa-miR-199a-3p	ENSG00000084234	APLP2	protein_coding	chr11
MIMAT0000232	hsa-miR-199a-3p	ENSG00000060237	WNK1	protein_coding	chr12
MIMAT0000232	hsa-miR-199a-3p	ENSG00000123411	IKZF4	protein_coding	chr12
MIMAT0000232	hsa-miR-199a-3p	ENSG00000123411	IKZF4	protein_coding	chr12
MIMAT0000232	hsa-miR-199a-3p	ENSG00000083642	PDS5B	protein_coding	chr13
MIMAT0000232	hsa-miR-199a-3p	ENSG00000083642	PDS5B	protein_coding	chr13
MIMAT0000232	hsa-miR-199a-3p	ENSG00000165410	CFL2	protein_coding	chr14
MIMAT0000232	hsa-miR-199a-3p	ENSG00000165410	CFL2	protein_coding	chr14
MIMAT0000232	hsa-miR-199a-3p	ENSG00000100605	ITPK1	protein_coding	chr14
MIMAT0000232	hsa-miR-199a-3p	ENSG00000100605	ITPK1	protein_coding	chr14

Table SII. Continued.

miRNAid	miRNAname	geneID	geneName	geneType	Chromosome
MIMAT0000232	hsa-miR-199a-3p	ENSG00000100605	ITPK1	protein_coding	chr14
MIMAT0000232	hsa-miR-199a-3p	ENSG00000126777	KTN1	protein_coding	chr14
MIMAT0000232	hsa-miR-199a-3p	ENSG00000175265	GOLGA8A	protein_coding	chr15
MIMAT0000232	hsa-miR-199a-3p	ENSG00000175265	GOLGA8A	protein_coding	chr15
MIMAT0000232	hsa-miR-199a-3p	ENSG00000140403	DNAJA4	protein_coding	chr15
MIMAT0000232	hsa-miR-199a-3p	ENSG00000136381	IREB2	protein_coding	chr15
MIMAT0000232	hsa-miR-199a-3p	ENSG00000184602	SNN	protein_coding	chr16
MIMAT0000232	hsa-miR-199a-3p	ENSG00000184602	SNN	protein_coding	chr16
MIMAT0000232	hsa-miR-199a-3p	ENSG00000160551	TAOK1	protein_coding	chr17
MIMAT0000232	hsa-miR-199a-3p	ENSG00000160551	TAOK1	protein_coding	chr17
MIMAT0000232	hsa-miR-199a-3p	ENSG00000160551	TAOK1	protein_coding	chr17
MIMAT0000232	hsa-miR-199a-3p	ENSG00000176105	YES1	protein_coding	chr18
MIMAT0000232	hsa-miR-199a-3p	ENSG00000134769	DTNA	protein_coding	chr18
MIMAT0000232	hsa-miR-199a-3p	ENSG00000160877	NACC1	protein_coding	chr19
MIMAT0000232	hsa-miR-199a-3p	ENSG00000160877	NACC1	protein_coding	chr19
MIMAT0000232	hsa-miR-199a-3p	ENSG00000160877	NACC1	protein_coding	chr19
MIMAT0000232	hsa-miR-199a-3p	ENSG00000171103	TRMT61B	protein_coding	chr2
MIMAT0000232	hsa-miR-199a-3p	ENSG00000180398	MCFD2	protein_coding	chr2
MIMAT0000232	hsa-miR-199a-3p	ENSG00000180398	MCFD2	protein_coding	chr2
MIMAT0000232	hsa-miR-199a-3p	ENSG00000180398	MCFD2	protein_coding	chr2
MIMAT0000232	hsa-miR-199a-3p	ENSG00000221823	PPP3R1	protein_coding	chr2
MIMAT0000232	hsa-miR-199a-3p	ENSG00000221823	PPP3R1	protein_coding	chr2
MIMAT0000232	hsa-miR-199a-3p	ENSG00000115548	KDM3A	protein_coding	chr2
MIMAT0000232	hsa-miR-199a-3p	ENSG00000109689	STIM2	protein_coding	chr4
MIMAT0000232	hsa-miR-199a-3p	ENSG00000086189	DIMT1	protein_coding	chr5
MIMAT0000232	hsa-miR-199a-3p	ENSG00000164209	SLC25A46	protein_coding	chr5
MIMAT0000232	hsa-miR-199a-3p	ENSG00000065615	CYB5R4	protein_coding	chr6
MIMAT0000232	hsa-miR-199a-3p	ENSG00000122779	TRIM24	protein_coding	chr7
MIMAT0000232	hsa-miR-199a-3p	ENSG00000147526	TACC1	protein_coding	chr8
MIMAT0000232	hsa-miR-199a-3p	ENSG00000188647	PTAR1	protein_coding	chr9
MIMAT0000232	hsa-miR-199a-3p	ENSG00000205542	TMSB4X	protein_coding	chrX
MIMAT0000232	hsa-miR-199a-3p	ENSG00000086712	TXLNG	protein_coding	chrX
MIMAT0000232	hsa-miR-199a-3p	ENSG00000188153	COL4A5	protein_coding	chrX
MIMAT0000232	hsa-miR-199a-3p	ENSG00000188153	COL4A5	protein_coding	chrX
Target genes of hsa-miR-199b-5p					
MIMAT0000263	hsa-miR-199b-5p	ENSG00000133226	SRRM1	protein_coding	chr1
MIMAT0000263	hsa-miR-199b-5p	ENSG00000117758	STX12	protein_coding	chr1
MIMAT0000263	hsa-miR-199b-5p	ENSG00000204138	PHACTR4	protein_coding	chr1
MIMAT0000263	hsa-miR-199b-5p	ENSG00000204138	PHACTR4	protein_coding	chr1
MIMAT0000263	hsa-miR-199b-5p	ENSG00000162817	C1orf115	protein_coding	chr1
MIMAT0000263	hsa-miR-199b-5p	ENSG00000165868	HSPA12A	protein_coding	chr10
MIMAT0000263	hsa-miR-199b-5p	ENSG00000151893	CACUL1	protein_coding	chr10
MIMAT0000263	hsa-miR-199b-5p	ENSG00000151893	CACUL1	protein_coding	chr10
MIMAT0000263	hsa-miR-199b-5p	ENSG00000151893	CACUL1	protein_coding	chr10
MIMAT0000263	hsa-miR-199b-5p	ENSG00000134575	ACP2	protein_coding	chr11
MIMAT0000263	hsa-miR-199b-5p	ENSG00000135387	CAPRIN1	protein_coding	chr11
MIMAT0000263	hsa-miR-199b-5p	ENSG00000135387	CAPRIN1	protein_coding	chr11
MIMAT0000263	hsa-miR-199b-5p	ENSG00000124920	MYRF	protein_coding	chr11
MIMAT0000263	hsa-miR-199b-5p	ENSG00000124920	MYRF	protein_coding	chr11
MIMAT0000263	hsa-miR-199b-5p	ENSG00000124920	MYRF	protein_coding	chr11
MIMAT0000263	hsa-miR-199b-5p	ENSG00000124920	MYRF	protein_coding	chr11
MIMAT0000263	hsa-miR-199b-5p	ENSG00000124920	MYRF	protein_coding	chr11
MIMAT0000263	hsa-miR-199b-5p	ENSG00000003056	M6PR	protein_coding	chr12
MIMAT0000263	hsa-miR-199b-5p	ENSG00000066117	SMARCD1	protein_coding	chr12
MIMAT0000263	hsa-miR-199b-5p	ENSG00000066117	SMARCD1	protein_coding	chr12
MIMAT0000263	hsa-miR-199b-5p	ENSG00000166886	NAB2	protein_coding	chr12
MIMAT0000263	hsa-miR-199b-5p	ENSG00000184575	XPOT	protein_coding	chr12

Table SII. Continued.

miRNAid	miRNAname	geneID	geneName	geneType	Chromosome
MIMAT0000263	hsa-miR-199b-5p	ENSG00000111605	CPSF6	protein_coding	chr12
MIMAT0000263	hsa-miR-199b-5p	ENSG00000139734	DIAPH3	protein_coding	chr13
MIMAT0000263	hsa-miR-199b-5p	ENSG00000179627	ZBTB42	protein_coding	chr14
MIMAT0000263	hsa-miR-199b-5p	ENSG00000179627	ZBTB42	protein_coding	chr14
MIMAT0000263	hsa-miR-199b-5p	ENSG00000180357	ZNF609	protein_coding	chr15
MIMAT0000263	hsa-miR-199b-5p	ENSG00000180357	ZNF609	protein_coding	chr15
MIMAT0000263	hsa-miR-199b-5p	ENSG00000180357	ZNF609	protein_coding	chr15
MIMAT0000263	hsa-miR-199b-5p	ENSG00000180357	ZNF609	protein_coding	chr15
MIMAT0000263	hsa-miR-199b-5p	ENSG00000156232	WHAMM	protein_coding	chr15
MIMAT0000263	hsa-miR-199b-5p	ENSG00000166747	AP1G1	protein_coding	chr16
MIMAT0000263	hsa-miR-199b-5p	ENSG00000166747	AP1G1	protein_coding	chr16
MIMAT0000263	hsa-miR-199b-5p	ENSG00000166747	AP1G1	protein_coding	chr16
MIMAT0000263	hsa-miR-199b-5p	ENSG00000087111	PIGS	protein_coding	chr17
MIMAT0000263	hsa-miR-199b-5p	ENSG00000141480	ARRB2	protein_coding	chr17
MIMAT0000263	hsa-miR-199b-5p	ENSG00000109084	TMEM97	protein_coding	chr17
MIMAT0000263	hsa-miR-199b-5p	ENSG00000109084	TMEM97	protein_coding	chr17
MIMAT0000263	hsa-miR-199b-5p	ENSG00000109084	TMEM97	protein_coding	chr17
MIMAT0000263	hsa-miR-199b-5p	ENSG00000108424	KPNB1	protein_coding	chr17
MIMAT0000263	hsa-miR-199b-5p	ENSG00000082641	NFE2L1	protein_coding	chr17
MIMAT0000263	hsa-miR-199b-5p	ENSG00000082641	NFE2L1	protein_coding	chr17
MIMAT0000263	hsa-miR-199b-5p	ENSG00000082641	NFE2L1	protein_coding	chr17
MIMAT0000263	hsa-miR-199b-5p	ENSG00000082641	NFE2L1	protein_coding	chr17
MIMAT0000263	hsa-miR-199b-5p	ENSG00000082641	NFE2L1	protein_coding	chr17
MIMAT0000263	hsa-miR-199b-5p	ENSG00000005884	ITGA3	protein_coding	chr17
MIMAT0000263	hsa-miR-199b-5p	ENSG00000005884	ITGA3	protein_coding	chr17
MIMAT0000263	hsa-miR-199b-5p	ENSG00000141367	CLTC	protein_coding	chr17
MIMAT0000263	hsa-miR-199b-5p	ENSG00000141367	CLTC	protein_coding	chr17
MIMAT0000263	hsa-miR-199b-5p	ENSG00000125648	SLC25A23	protein_coding	chr19
MIMAT0000263	hsa-miR-199b-5p	ENSG00000125648	SLC25A23	protein_coding	chr19
MIMAT0000263	hsa-miR-199b-5p	ENSG00000125648	SLC25A23	protein_coding	chr19
MIMAT0000263	hsa-miR-199b-5p	ENSG00000125648	SLC25A23	protein_coding	chr19
MIMAT0000263	hsa-miR-199b-5p	ENSG00000125648	SLC25A23	protein_coding	chr19
MIMAT0000263	hsa-miR-199b-5p	ENSG00000125648	SLC25A23	protein_coding	chr19
MIMAT0000263	hsa-miR-199b-5p	ENSG00000125648	SLC25A23	protein_coding	chr19
MIMAT0000263	hsa-miR-199b-5p	ENSG00000167785	ZNF558	protein_coding	chr19
MIMAT0000263	hsa-miR-199b-5p	ENSG00000174652	ZNF266	protein_coding	chr19
MIMAT0000263	hsa-miR-199b-5p	ENSG00000174652	ZNF266	protein_coding	chr19
MIMAT0000263	hsa-miR-199b-5p	ENSG00000213297	ZNF625-ZNF20	protein_coding	chr19
MIMAT0000263	hsa-miR-199b-5p	ENSG00000257591	ZNF625	protein_coding	chr19
MIMAT0000263	hsa-miR-199b-5p	ENSG00000204604	ZNF468	protein_coding	chr19
MIMAT0000263	hsa-miR-199b-5p	ENSG00000204604	ZNF468	protein_coding	chr19
MIMAT0000263	hsa-miR-199b-5p	ENSG00000204604	ZNF468	protein_coding	chr19
MIMAT0000263	hsa-miR-199b-5p	ENSG00000204604	ZNF468	protein_coding	chr19
MIMAT0000263	hsa-miR-199b-5p	ENSG00000204604	ZNF468	protein_coding	chr19
MIMAT0000263	hsa-miR-199b-5p	ENSG00000071626	DAZAP1	protein_coding	chr19
MIMAT0000263	hsa-miR-199b-5p	ENSG00000032444	PNPLA6	protein_coding	chr19
MIMAT0000263	hsa-miR-199b-5p	ENSG00000171295	ZNF440	protein_coding	chr19
MIMAT0000263	hsa-miR-199b-5p	ENSG00000171295	ZNF440	protein_coding	chr19
MIMAT0000263	hsa-miR-199b-5p	ENSG00000171295	ZNF440	protein_coding	chr19
MIMAT0000263	hsa-miR-199b-5p	ENSG00000187244	BCAM	protein_coding	chr19
MIMAT0000263	hsa-miR-199b-5p	ENSG00000187244	BCAM	protein_coding	chr19
MIMAT0000263	hsa-miR-199b-5p	ENSG00000104870	FCGRT	protein_coding	chr19
MIMAT0000263	hsa-miR-199b-5p	ENSG00000198131	ZNF544	protein_coding	chr19
MIMAT0000263	hsa-miR-199b-5p	ENSG00000198131	ZNF544	protein_coding	chr19
MIMAT0000263	hsa-miR-199b-5p	ENSG00000198131	ZNF544	protein_coding	chr19
MIMAT0000263	hsa-miR-199b-5p	ENSG00000035141	FAM136A	protein_coding	chr2
MIMAT0000263	hsa-miR-199b-5p	ENSG00000084733	RAB10	protein_coding	chr2
MIMAT0000263	hsa-miR-199b-5p	ENSG00000084733	RAB10	protein_coding	chr2
MIMAT0000263	hsa-miR-199b-5p	ENSG00000172954	LCLAT1	protein_coding	chr2
MIMAT0000263	hsa-miR-199b-5p	ENSG00000116005	PCYOX1	protein_coding	chr2

Table SII. Continued.

miRNAid	miRNAname	geneID	geneName	geneType	Chromosome
MIMAT0000263	hsa-miR-199b-5p	ENSG00000158417	EIF5B	protein_coding	chr2
MIMAT0000263	hsa-miR-199b-5p	ENSG00000101474	APMAP	protein_coding	chr20
MIMAT0000263	hsa-miR-199b-5p	ENSG00000101004	NINL	protein_coding	chr20
MIMAT0000263	hsa-miR-199b-5p	ENSG00000093010	COMT	protein_coding	chr22
MIMAT0000263	hsa-miR-199b-5p	ENSG00000093010	COMT	protein_coding	chr22
MIMAT0000263	hsa-miR-199b-5p	ENSG00000100354	TNRC6B	protein_coding	chr22
MIMAT0000263	hsa-miR-199b-5p	ENSG00000100354	TNRC6B	protein_coding	chr22
MIMAT0000263	hsa-miR-199b-5p	ENSG00000172046	USP19	protein_coding	chr3
MIMAT0000263	hsa-miR-199b-5p	ENSG00000163660	CCNL1	protein_coding	chr3
MIMAT0000263	hsa-miR-199b-5p	ENSG00000184203	PPP1R2	protein_coding	chr3
MIMAT0000263	hsa-miR-199b-5p	ENSG00000114416	FXR1	protein_coding	chr3
MIMAT0000263	hsa-miR-199b-5p	ENSG00000114416	FXR1	protein_coding	chr3
MIMAT0000263	hsa-miR-199b-5p	ENSG00000204580	DDR1	protein_coding	chr6
MIMAT0000263	hsa-miR-199b-5p	ENSG00000204580	DDR1	protein_coding	chr6
MIMAT0000263	hsa-miR-199b-5p	ENSG00000204580	DDR1	protein_coding	chr6
MIMAT0000263	hsa-miR-199b-5p	ENSG00000137216	TMEM63B	protein_coding	chr6
MIMAT0000263	hsa-miR-199b-5p	ENSG00000106070	GRB10	protein_coding	chr7
MIMAT0000263	hsa-miR-199b-5p	ENSG00000164828	SUN1	protein_coding	chr7
MIMAT0000263	hsa-miR-199b-5p	ENSG00000157954	WIPI2	protein_coding	chr7
MIMAT0000263	hsa-miR-199b-5p	ENSG00000044574	HSPA5	protein_coding	chr9
MIMAT0000263	hsa-miR-199b-5p	ENSG00000198917	SPOUT1	protein_coding	chr9
MIMAT0000263	hsa-miR-199b-5p	ENSG00000119318	RAD23B	protein_coding	chr9
MIMAT0000263	hsa-miR-199b-5p	ENSG00000119318	RAD23B	protein_coding	chr9

Table SIII. KEGG pathway enrichment analysis of top 5 modules from PPI network.

Pathway	Total	Expected	Hits	P-value	FDR
Neurotrophin signaling pathway	123	0.815	8	8.61E-07	0.000187
mRNA surveillance pathway	82	0.543	5	0.000174	0.0147
MAPK signaling pathway	265	1.76	8	0.00024	0.0147
Colorectal cancer	49	0.325	4	0.000271	0.0147
Adherens junction	70	0.464	4	0.00106	0.0462
TGF-beta signaling pathway	84	0.556	4	0.0021	0.071
Wnt signaling pathway	144	0.954	5	0.00229	0.071
Notch signaling pathway	47	0.311	3	0.0035	0.0951
Oocyte meiosis	108	0.715	4	0.00522	0.126
HTLV-I infection	199	1.32	5	0.00911	0.178
Focal adhesion	200	1.32	5	0.0093	0.178
Pancreatic cancer	69	0.457	3	0.0103	0.178
Long-term potentiation	70	0.464	3	0.0107	0.178
Pathways in cancer	310	2.05	6	0.0145	0.224
ErbB signaling pathway	87	0.576	3	0.0192	0.275
Chagas disease (American trypanosomiasis)	89	0.59	3	0.0204	0.275
Epstein-Barr virus infection	91	0.603	3	0.0216	0.275
T cell receptor signaling pathway	98	0.649	3	0.0262	0.285
Tuberculosis	174	1.15	4	0.0265	0.285
Amyotrophic lateral sclerosis (ALS)	39	0.258	2	0.027	0.285
Hepatitis C	100	0.662	3	0.0276	0.285
Regulation of actin cytoskeleton	182	1.21	4	0.0307	0.302
Alzheimer's disease	49	0.325	2	0.0412	0.369
Axon guidance	118	0.782	3	0.0421	0.369
Osteoclast differentiation	119	0.788	3	0.043	0.369
Pertussis	52	0.344	2	0.0459	0.369
Cell cycle	124	0.821	3	0.0476	0.369
Dopaminergic synapse	124	0.821	3	0.0476	0.369

Table SIV. TFs of DEMs.

TF name	TSS	Binding site	Action type	SRAID/PMID	Evidence
hsa-miR-127					
HIF1A	n/a	n/a	Regulation	22962609	Literature
JUN	n/a	n/a	Repression	23762330	Literature
NFKB1	n/a	n/a	Activation	27869168	Literature
NR3B3	n/a	n/a	Activation	18776219	Literature
SHP	n/a	n/a	Repression	18776219	Literature
TP53	n/a	n/a	Activation	23762330	Literature
CEBPB	chr14: 100826118	chr14: 100825987 -100826109(score=411)	Regulation	SRX150598	Level 2
CREB1	chr14: 100826118	chr14: 100826004 -100826151(score=517)	Regulation	SRX190175	Level 2
MAZ	chr14: 100826118	chr14: 100826039 -100826190(score=837)	Regulation	SRX186618	Level 2
hsa-miR-199a					
CTNNB1	n/a	n/a	Repression	26307673	Literature
NR1H4	n/a	n/a	Repression	22265968	Literature
RELA	n/a	n/a	Repression	25200074	Literature
TGFB1	n/a	n/a	Activation	20705240	Literature
TWIST1	n/a	n/a	Regulation	22942713	Literature
hsa-miR-199b					
NFATC3	n/a	n/a	Activation	21102440	Literature
BRD4	chr9: 128244976	chr9: 128245032- 128245269(score=381)	Regulation	SRX1134739	Level 2
CEBPA	chr9: 128244976	chr9: 128245049- 128245239(score=396)	Regulation	SRX2245499	Level 2
DNMT3A	chr9: 128244976	chr9: 128245010- 128245246(score=326)	Regulation	SRX3075718	Level 2
EP300	chr9: 128244976	chr9: 128245102- 128245218(score=408)	Regulation	ERX378364	Level 2
ERG	chr9: 128244976	chr9: 128244940- 128245260(score=1000)	Regulation	SRX682375	Level 2
JMJD1C	chr9: 128244976	chr9: 128245087- 128245229(score=557)	Regulation	SRX763970	Level 2
KDM2B	chr9: 128244976	chr9: 128244910- 128245112(score=355)	Regulation	SRX1873447	Level 2
LMO2	chr9: 128244976	chr9: 128245072- 128245246(score=1000)	Regulation	SRX698186	Level 2
LMO3	chr9: 128244976	chr9: 128245077- 128245249(score=889)	Regulation	SRX698187	Level 2
MAZ	chr9: 128244976	chr9: 128244968- 128245165(score=377)	Regulation	SRX186618	Level 2
MYC	chr9: 128244976	chr9: 128245107- 128245201(score=407)	Regulation (feedback)	SRX150722	Level 2
NOTCH1	chr9: 128244976	chr9: 128245043- 128245225(score=500)	Regulation	SRX159138	Level 2
NR3C1	chr9: 128244976	chr9: 128245008- 128245245(score=415)	Regulation	SRX2609667	Level 2
RUNX1	chr9: 128244976	chr9: 128245032- 128245253(score=432)	Regulation (feedback)	SRX1803059	Level 2
RUNX1T1	chr9: 128244976	chr9: 128245086- 128245240(score=639)	Regulation	SRX747572	Level 2
TCF12	chr9: 128244976	chr9: 128245071- 128245232(score=813)	Regulation	SRX190356	Level 2
TFAP2C	chr9: 128244976	chr9: 128245085- 128245261(score=816)	Regulation	SRX190406	Level 2
TRIM28	chr9: 128244976	chr9: 128245075- 128245199(score=503)	Regulation	SRX391683	Level 2

Table SIV. Continued.

TF name	TSS	Binding site	Action type	SRAID/PMID	Evidence
hsa-miR-375					
ASH1L	n/a	n/a	Activation	21856745	Literature
SNAI1	n/a	n/a	Repression	25055044	Literature
BRD4	chr2: 219001977	chr2: 219001905-219002234(score=491)	Regulation	SRX204900	Level 2
CEBPD	chr2: 219001977	chr2: 219002043-219002166(score=431)	Regulation	SRX190233	Level 2
CREB1	chr2: 219001977	chr2: 219002004-219002118(score=366)	Regulation	SRX190264	Level 2
EGR1	chr2: 219001977	chr2: 219002022-219002235(score=811)	Regulation	SRX100459	Level 2
EP300	chr2: 219001977	chr2: 219001880-219002238(score=350)	Regulation	SRX186710	Level 2
ESR1	chr2: 219001977	chr2: 219001932-219002223(score=1000)	Regulation	SRX1585242	Level 2
FOSL2	chr2: 219001977	chr2: 219001990-219002141(score=685)	Regulation	SRX100496	Level 2
FOXA1	chr2: 219001977	chr2: 219001877-219002228(score=1000)	Regulation	SRX250093	Level 2
FOXA2	chr2: 219001977	chr2: 219002025-219002140(score=650)	Regulation	SRX886445	Level 2
HDAC2	chr2: 219001977	chr2: 219001998-219002166(score=613)	Regulation	SRX100538	Level 2
JUND	chr2: 219001977	chr2: 219002012-219002119(score=524)	Regulation	SRX100545	Level 2
MED1	chr2: 219001977	chr2: 219001955-219002213(score=452)	Regulation	SRX129089	Level 2
PGR	chr2: 219001977	chr2: 219001881-219002113(score=1000)	Regulation	SRX1012619	Level 2
SNAI2	chr2: 219001977	chr2: 219001909-219002169(score=500)	Regulation	SRX476919	Level 2
SP1	chr2: 219001977	chr2: 219001937-219002089(score=352)	Regulation	SRX190358	Level 2
TCF12	chr2: 219001977	chr2: 219001922-219002169(score=421)	Regulation	SRX190317	Level 2
TFAP2C	chr2: 219001977	chr2: 219001919-219002112(score=627)	Regulation	SRX128100	Level 2
ZEB1	chr2: 219001977	chr2: 219001902-219002178(score=766)	Regulation	SRX190265	Level 2
hsa-miR-429					
ASCL2	n/a	n/a	Repression	25371200	Literature
DNMT1	n/a	n/a	Repression (feedback)	25595591	Literature
EED	n/a	n/a	Repression	25264103	Literature
EZH2	n/a	n/a	Repression (feedback)	25264103	Literature
FOXF2	n/a	n/a	Repression	25798833	Literature
FOXM1	n/a	n/a	Repression	24918286	Literature
GRHL2	n/a	n/a	Activation	26887977	Literature
HDAC1	n/a	n/a	Repression	25279705	Literature
HDAC2	n/a	n/a	Repression	23975430	Literature
HDAC4	n/a	n/a	Repression	24830600	Literature
HIF1A	n/a	n/a	Activation (feedback)	25550463	Literature
JUN	n/a	n/a	Repression (feedback)	27550813	Literature
KDM5B	n/a	n/a	Repression	23759590	Literature
KLF4	n/a	n/a	Activation (feedback)	26341629	Literature
KLF5	n/a	n/a	Activation	24126055	Literature
MYB	n/a	n/a	Activation (feedback)	24067373	Literature
NFKB1	n/a	n/a	Activation	23565224	Literature
PELP1	n/a	n/a	Repression	23975430	Literature
SIP1	n/a	n/a	Repression	18829540	Literature

Table SIV. Continued.

TF name	TSS	Binding site	Action type	SRAID/PMID	Evidence
SNAI1	n/a	n/a	Repression	25178837	Literature
SP1	n/a	n/a	Activation (feedback)	24627491	Literature
TGFB1	n/a	n/a	Repression	18698484	Literature
TP53	n/a	n/a	Activation	21518799	Literature
TP63	n/a	n/a	Activation	21917857	Literature
TP73	n/a	n/a	Activation	21917857	Literature
TWIST1	n/a	n/a	Repression	20473948	Literature
ZEB1	n/a	n/a	Repression (feedback)	18829540	Literature
ZEB2	n/a	n/a	Repression (feedback)	18829540	Literature
CREB1	chr1: 1162877	chr1: 1162623- 1162939(score=725)	Regulation	SRX1212238	Level 2
FOXA1	chr1: 1162877	chr1: 1162724- 1162882(score=282)	Regulation	SRX250093	Level 2
MAX	chr1: 1162877	chr1: 1162616- 1162954(score=422)	Regulation	SRX129111	Level 2
SNAI2	chr1: 1162877	chr1: 1162677- 1162944(score=1000)	Regulation	SRX476913	Level 2
SRF	chr1: 1162877	chr1: 1162790- 1162938(score=391)	Regulation	SRX190295	Level 2
TFAP4	chr1: 1162877	chr1: 1162730- 1162940(score=379)	Regulation	SRX1892834	Level 2