

Table S2.Results obtained for the test on experimentally validated targets

miRNA target	Pearson r	Correlation Pv	Antagonism Pv
hsa-let-7a ACP1	-0.6231581	1.73453e-06	0.015
hsa-let-7a BCL2	0.2486819	0.04576699	0.153
hsa-let-7a CDC25A	0.1499639	0.2331259	0.139
hsa-let-7a DAD1	0.4048024	0.003913119	0.149
hsa-let-7a DICER1	-0.5424829	5.659068e-05	0.031
hsa-let-7a HMGA1	-0.7058605	1.472359e-08	0.002
hsa-let-7a HMGA2	-0.6106758	3.169111e-06	0.011
hsa-let-7a KRAS	-0.6515853	3.965013e-07	0.057
hsa-let-7a MED28	-0.3396184	0.005644565	0.088
hsa-let-7a MYC	-0.1108327	0.3794358	0.132
hsa-let-7a NKIRAS2	0.5095615	0.000184358	0.554
hsa-let-7a NRAS	0.2388212	0.09841185	0.368
hsa-let-7a RTCD1	0.05335366	0.715788	0.303
hsa-let-7a SMOX	0.2716814	0.02858071	0.091
hsa-let-7a TRIM71	-0.8048728	3.17775e-12	0.002
hsa-let-7a VDR	0.2817042	0.02300467	0.212
hsa-let-7b AARSD1	-0.4299215	0.002049008	0.123
hsa-let-7b ACTG1	0.4905331	0.0003460044	0.219
hsa-let-7b AKAP8	-0.4762661	0.000541851	0.166
hsa-let-7b ANAPC1	-0.8425689	3.187934e-14	0.013
hsa-let-7b ATP6V0A1	0.02082315	0.8692258	0.251
hsa-let-7b ATP6V1F	0.4845633	0.0004184316	0.277
hsa-let-7b AURKB	-0.7369839	1.562205e-09	0.001
hsa-let-7b BAT2	0.1157728	0.2489509	0.175
hsa-let-7b BCL7A	0.02568973	0.8390319	0.016
hsa-let-7b CALCOCO2	0.1464228	0.2444731	0.403
hsa-let-7b CAPG	-0.21248	0.1255239	0.048
hsa-let-7b CARHSP1	-0.5281623	9.602204e-05	0.016
hsa-let-7b CCND1	0.4569926	0.0001298562	0.024
hsa-let-7b CDC25A	0.1728297	0.1685908	0.305
hsa-let-7b CDC34	-0.1696679	0.2438211	0.048
hsa-let-7b CDIPT	0.3402458	0.01675284	0.139
hsa-let-7b CHMP2A	0.6359415	9.09921e-07	0.745
hsa-let-7b COIL	-0.4415157	0.001494564	0.092
hsa-let-7b COMMD9	0.6082117	3.558705e-06	0.79
hsa-let-7b CSNK1D	0.2535318	0.07878956	0.283
hsa-let-7b DSP	0.06182393	0.5390984	0.09
hsa-let-7b DUSP12	-0.188746	0.1940043	0.159
hsa-let-7b DUSP23	-0.3286795	0.02111988	0.124
hsa-let-7b FADS2	0.161388	0.2679337	0.01
hsa-let-7b FAM105A	-0.09866934	0.3262626	0.195
hsa-let-7b FAM96A	-0.5907846	7.864086e-06	0.002
hsa-let-7b FNDC3A	0.2192553	0.1301143	0.278
hsa-let-7b GAK	-0.04136183	0.7778061	0.113
hsa-let-7b GPR56	0.210882	0.08348758	0.084
hsa-let-7b GRPEL2	-0.5426301	5.627699e-05	0.001
hsa-let-7b GTPBP3	-0.674228	1.090983e-07	0.027
hsa-let-7b GYS1	0.4436447	0.001408732	0.124
hsa-let-7b HMGA1	-0.6355105	9.30374e-07	0.007
hsa-let-7b HMGA2	-0.690907	3.915952e-08	0.008
hsa-let-7b IFIT5	-0.1951339	0.1193021	0.212
hsa-let-7b IFRD1	-0.1317821	0.3667351	0.018

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hsa-let-7b IPO4	-0.4465575	0.001298427	0.038
hsa-let-7b KRAS	-0.5678222	2.088788e-05	0.032
hsa-let-7b MLLT1	0.3920537	0.005335897	0.041
hsa-let-7b MRPS24	0.06386812	0.6628505	0.268
hsa-let-7b MRPS33	0.01062645	0.9422304	0.342
hsa-let-7b MTPN	0.153691	0.2917255	0.152
hsa-let-7b MTRR	-0.5289712	9.325548e-05	0.045
hsa-let-7b NEDD4	0.1038191	0.4777693	0.205
hsa-let-7b NXN	-0.4586419	0.0009186272	0.097
hsa-let-7b PGRMC1	-0.4524381	0.0001544305	0.035
hsa-let-7b POLD2	-0.08616277	0.5560856	0.039
hsa-let-7b POLR2C	0.1588886	0.2755137	0.092
hsa-let-7b POM121	-0.5518096	3.958203e-05	0.075
hsa-let-7b PPP1R7	0.5888693	8.556173e-06	0.932
hsa-let-7b PRIM1	-0.7258323	3.613743e-09	0.001
hsa-let-7b PTGS2	0.06637355	0.6504617	0.129
hsa-let-7b PXDN	-0.1918958	0.1835513	0.002
hsa-let-7b RDH10	-0.1600528	0.1098617	0.099
hsa-let-7b RHOB	0.11382	0.3666431	0.05
hsa-let-7b RHOG	0.4743881	0.0005739804	0.915
hsa-let-7b RPIA	-0.2696862	0.0609365	0.039
hsa-let-7b SCYL1	0.2739952	0.05676855	0.448
hsa-let-7b SLC1A4	0.45157	0.0001595735	0.058
hsa-let-7b SLC25A1	0.3210604	0.02449207	0.283
hsa-let-7b SLC25A13	-0.743042	9.730502e-10	0.003
hsa-let-7b SLC25A24	0.02880255	0.7749407	0.261
hsa-let-7b SLC25A32	-0.3755973	0.002048293	0.063
hsa-let-7b SLC38A1	-0.8381271	5.82116e-14	0.011
hsa-let-7b SNAP23	-0.2468753	0.08724803	0.046
hsa-let-7b SPCS3	0.1782256	0.2204958	0.242
hsa-let-7b SYPL1	-0.08897851	0.4809046	0.101
hsa-let-7b TAF9B	0.4107805	0.003369495	0.126
hsa-let-7b THBS1	0.1751004	0.2288275	0.033
hsa-let-7b TMEM2	-0.5466819	4.824157e-05	0.001
hsa-let-7b TPM2	0.2927338	0.02295941	0.14
hsa-let-7b TRMT1	-0.6725198	1.207225e-07	0.021
hsa-let-7b TYMS	-0.1112316	0.4467249	0.172
hsa-let-7b UHRF1	-0.2161677	0.1357484	0.044
hsa-let-7b VPS39	0.4516472	0.001124064	0.69
hsa-let-7c BCL2	-0.01658407	0.8956806	0.169
hsa-let-7c BCL2L1	0.1631323	0.2627268	0.215
hsa-let-7c CDC25A	0.1221216	0.3324927	0.081
hsa-let-7c HMGA2	-0.4896264	0.0003562174	0.031
hsa-let-7c MED28	-0.03946782	0.7549286	0.231
hsa-let-7c MYC	-0.07187291	0.5693893	0.059
hsa-let-7c RTCD1	-0.2336847	0.1060884	0.025
hsa-let-7c TRIM71	-0.5443716	5.268387e-05	0.007
hsa-let-7d BCL2	0.1731053	0.1679024	0.047
hsa-let-7d BDNF	-0.07065691	0.6294978	0.132
hsa-let-7d CDC25A	0.171538	0.1718445	0.047
hsa-let-7d DAD1	0.1509467	0.3005303	0.183
hsa-let-7d DICER1	-0.4086574	0.003554423	0.029
hsa-let-7d EIF4G2	0.2850334	0.04713135	0.288

Table S2. Results obtained for the test on experimentally validated targets

hsa-let-7d HMGA2	-0.6109063	3.134776e-06	0.013
hsa-let-7d KRAS	-0.3660493	0.009691195	0.036
hsa-let-7d RABGAP1L	0.1662569	0.1856255	0.032
hsa-let-7d SMOX	-0.1446392	0.2503297	0.077
hsa-let-7e DAD1	0.378149	0.007384475	0.45
hsa-let-7e HMGA2	-0.5492061	4.378243e-05	0.095
hsa-let-7e RABGAP1L	-0.2289401	0.06659361	0.091
hsa-let-7f ASS1	-0.3126599	0.02872207	0.061
hsa-let-7f EEF1A2	0.211677	0.1442652	0.13
hsa-let-7f ESM1	0.2317013	0.1091725	0.035
hsa-let-7f FDPS	-0.2411962	0.09501088	0.046
hsa-let-7f NTS	-0.1584335	0.2769087	0.096
hsa-let-7f VIM	0.5453625	5.073465e-05	0.014
hsa-let-7g BCL2L1	-0.03575803	0.8072909	0.03
hsa-let-7g CDC25A	0.03991758	0.7522248	0.094
hsa-let-7g COL1A2	-0.2228753	0.07433714	0.022
hsa-let-7g DAD1	0.2986642	0.0371131	0.378
hsa-let-7g EIF4G2	0.04769798	0.7448391	0.167
hsa-let-7g HMGA2	-0.6924704	3.54496e-08	0.002
hsa-let-7g KRAS	-0.3957401	0.004884194	0.028
hsa-let-7g MYC	-0.09076987	0.5110749	0.101
hsa-let-7i DAD1	0.3634173	0.01026808	0.313
hsa-let-7i EIF4G2	0.158574	0.2764775	0.252
hsa-miR-100 EGR2	0.196477	0.1685211	0.125
hsa-miR-100 FGFR3	-0.6839836	6.402719e-09	0.001
hsa-miR-100 ID1	-0.7504285	5.365552e-10	0.013
hsa-miR-100 IGF1R	0.259781	0.036635	0.026
hsa-miR-100 PLK1	-0.6646694	1.90644e-07	0.006
hsa-miR-101 APP	0.3368028	0.01796431	0.112
hsa-miR-101 ATXN1	-0.2341479	0.0604741	0.024
hsa-miR-101 EZH2	0.2414747	0.05264294	0.031
hsa-miR-101 FOS	0.305379	0.01337316	0.114
hsa-miR-101 MCL1	0.3142049	0.0108045	0.048
hsa-miR-101 MYCN	0.427625	0.0009290042	0.021
hsa-miR-103 GPD1	-0.04752446	0.7457363	0.409
hsa-miR-103 SERBP1	0.4538573	0.0001463499	0.048
hsa-miR-105 TLR2	-0.1048829	0.1476713	0.05
hsa-miR-106a APP	0.4182501	0.002784466	0.594
hsa-miR-106a CDKN1A	-0.6188423	2.142738e-06	0.005
hsa-miR-106a RB1	-0.1525473	0.2953743	0.179
hsa-miR-106b APP	0.3553162	0.01223298	0.001
hsa-miR-106b CDKN1A	-0.5259601	0.000103938	0.006
hsa-miR-106b ITCH	0.4990773	0.0002619916	0.001
hsa-miR-106b PCAF	-0.2740491	0.0001198467	0.003
hsa-miR-107 BACE1	-0.04100973	0.7796501	0.062
hsa-miR-107 CCNE1	-0.1790289	0.2183887	0.187
hsa-miR-107 CDCA4	-0.2066477	0.1542669	0.257
hsa-miR-107 HIF1A	-0.2083714	0.1507832	0.063
hsa-miR-107 RAB1B	-0.2889339	0.02927235	0.121
hsa-miR-107 SERBP1	-0.2420301	0.09383859	0.018
hsa-miR-10a USF2	0.2489055	0.000498861	0.142
hsa-miR-10b HOXD10	-0.3754918	0.002054735	0.043
hsa-miR-10b KLF4	0.1602604	0.02638452	0.04

Table S2.Results obtained for the test on experimentally validated targets

hsa-miR-124a CDK2	0.2485469	0.08506008	0.261
hsa-miR-124a NR3C1	-0.3263581	0.02210314	0.182
hsa-miR-125a ARID3B	-0.7109822	1.038554e-08	0.035
hsa-miR-125a ERBB2	-0.05958108	0.5208977	0.273
hsa-miR-125a ERBB3	-0.7265441	4.284935e-12	0.001
hsa-miR-125a LIF	0.3179173	0.02600911	0.475
hsa-miR-125a RARA	0.354925	0.01233551	0.31
hsa-miR-125b ADAMTS1	0.5258407	4.884981e-15	0.182
hsa-miR-125b BAK1	-0.02426557	0.8685518	0.198
hsa-miR-125b CASP6	-0.2369892	0.05733215	0.046
hsa-miR-125b CASP7	-0.2787363	0.02455045	0.021
hsa-miR-125b CBX7	0.1033495	0.1537171	0.061
hsa-miR-125b CDC25A	0.08806913	0.4854172	0.254
hsa-miR-125b CDK6	-0.07836291	0.279964	0.096
hsa-miR-125b CDKN2A	-0.5016648	1.241865e-13	0.004
hsa-miR-125b CEBPG	-0.4504165	8.032627e-10	0.003
hsa-miR-125b CLU	0.4050517	5.62243e-09	0.239
hsa-miR-125b CYP1A1	0.2573451	0.0003139886	0.351
hsa-miR-125b DICER1	-0.5581528	3.084876e-05	0.006
hsa-miR-125b EIF4EBP1	-0.3045566	0.009769531	0.021
hsa-miR-125b ERBB2	0.06835033	0.3461887	0.522
hsa-miR-125b ERBB3	-0.6663427	3.549734e-20	0.001
hsa-miR-125b GPR160	-0.7859238	2.238764e-11	0.025
hsa-miR-125b H3F3B	0.1950851	0.1791779	0.046
hsa-miR-125b HMGA1	-0.5778549	1.702192e-18	0.001
hsa-miR-125b HMGA2	-0.4876672	0.0003792243	0.043
hsa-miR-125b HOMER2	0.1156929	0.1100452	0.071
hsa-miR-125b ID1	-0.7558865	5.444978e-12	0.025
hsa-miR-125b ID2	0.4890366	6.148415e-13	0.015
hsa-miR-125b ID3	0.5102647	4.019007e-14	0.106
hsa-miR-125b IGFBP3	0.4436844	1.152158e-10	0.044
hsa-miR-125b IL1RN	0.2360832	0.0009785309	0.116
hsa-miR-125b KLF13	-0.4239697	8.907559e-10	0.001
hsa-miR-125b LIF	0.2509828	0.08194883	0.391
hsa-miR-125b MAN1A1	0.2395233	0.0008195596	0.129
hsa-miR-125b NKIRAS2	0.5438102	5.381848e-05	0.398
hsa-miR-125b ODZ2	0.183365	0.01090243	0.409
hsa-miR-125b PERP	0.1906387	0.008081323	0.181
hsa-miR-125b PIGR	0.2672777	0.0001784376	0.001
hsa-miR-125b RBM8A	-0.3636073	2.172585e-07	0.008
hsa-miR-125b SGPL1	-0.1390221	0.05446545	0.083
hsa-miR-125b SMO	-0.2497887	0.0004756154	0.001
hsa-miR-125b TP53	-0.1949933	0.1195737	0.096
hsa-miR-125b TSPAN8	-0.3176039	0.009936101	0.007
hsa-miR-125b UBE2I	-0.4146308	0.002064801	0.051
hsa-miR-125b UGT2B15	0.4537997	3.829737e-11	0.115
hsa-miR-125b VDR	-0.3884284	0.001386728	0.043
hsa-miR-126 CCNE2	-0.1053023	0.4038157	0.026
hsa-miR-126 CRK	0.3346693	0.01094159	0.069
hsa-miR-126 HOXA9	-0.2578389	0.0381135	0.045
hsa-miR-126 IRS1	0.1842435	0.1417768	0.076
hsa-miR-126 PLK2	0.5403142	6.140316e-05	0.072
hsa-miR-126 RGS3	0.3280045	0.02140193	0.028

Table S2. Results obtained for the test on experimentally validated targets

hsa-miR-126* SLC45A3	-0.2253663	0.0234547	0.162
hsa-miR-126 SPRED1	-0.6110765	3.109628e-06	0.068
hsa-miR-126 TOM1	-0.1851059	0.2029014	0.228
hsa-miR-126 VCAM1	0.1290987	0.3385201	0.07
hsa-miR-126 VEGFA	-0.2121863	0.08971762	0.041
hsa-miR-127 BCL6	0.3676859	0.009346755	0.11
hsa-miR-127 XBP1	0.09023832	0.2768541	0.248
hsa-miR-128b CDKN1B	0.4520484	0.001111255	0.164
hsa-miR-128b EGFR	-0.08582012	0.4966727	0.021
hsa-miR-128b MLL	-0.3419436	0.00530477	0.007
hsa-miR-129 GALNT1	0.3531607	0.003906228	0.282
hsa-miR-129 NOTCH1	0.1674018	0.1825723	0.06
hsa-miR-129 SOX4	-0.5438752	2.836423e-06	0.001
hsa-miR-130a ATXN1	0.1423217	0.06587022	0.018
hsa-miR-130a HOXA5	0.07495037	0.5795058	0.19
hsa-miR-130a MAFB	0.2234703	0.07354707	0.108
hsa-miR-130a NR3C2	0.1775533	0.02477174	0.041
hsa-miR-130a TAC1	-0.1454153	0.2477698	0.52
hsa-miR-130b RUNX3	-0.1961121	0.1174249	0.087
hsa-miR-130b TP53INP1	0.11121	0.3894189	0.05
hsa-miR-132 CDKN1A	0.310672	0.02980746	0.204
hsa-miR-132 MECP2	-0.3219216	0.008920927	0.215
hsa-miR-132 RFX4	0.5219887	0.0001197348	0.047
hsa-miR-132 SIRT1	-0.1618853	0.2664422	0.158
hsa-miR-133a CDC42	0.1000841	0.1672111	0.121
hsa-miR-133a ERG	0.3586912	3.243089e-07	0.426
hsa-miR-133a FSCN1	-0.09086345	0.2100552	0.136
hsa-miR-133a KLF15	-0.01505819	0.8357743	0.068
hsa-miR-133a KRT7	0.2299344	0.001334952	0.44
hsa-miR-133a PKM2	-0.1885394	0.008820102	0.217
hsa-miR-133a RHOA	-0.1982613	0.005839345	0.035
hsa-miR-133a UCP2	0.0779702	0.2823885	0.204
hsa-miR-133b BCL2L2	-0.2822754	7.285828e-05	0.065
hsa-miR-133b KLF15	-0.05265717	0.4682201	0.061
hsa-miR-133b MCL1	0.5463091	2.508197e-06	0.19
hsa-miR-133b PKM2	-0.1603728	0.0262777	0.123
hsa-miR-135a APC	0.1601558	0.2716531	0.067
hsa-miR-135a NR3C2	-0.3370263	1.752329e-06	0.001
hsa-miR-135b APC	0.6254547	1.547999e-06	0.027
hsa-miR-137 CDK6	-0.0131021	0.8568619	0.046
hsa-miR-137 NCOA2	0.3945184	0.00114602	0.058
hsa-miR-138 ARHGEF3	0.2382757	0.0008742412	0.165
hsa-miR-138 RHOC	-0.229659	0.001353402	0.003
hsa-miR-138 ROCK2	-0.1059507	0.143569	0.243
hsa-miR-140 CXCL12	-0.5206943	0.0001253385	0.069
hsa-miR-140 HDAC4	0.1176058	0.4209428	0.149
hsa-miR-141 BAP1	-0.09748347	0.1785748	0.001
hsa-miR-141 BRD3	-0.09753425	0.5049593	0.044
hsa-miR-141 DLX5	-0.1769701	0.2238175	0.269
hsa-miR-141 ELMO2	0.1038903	0.151564	0.255
hsa-miR-141 ERBB2IP	-0.7593544	2.541148e-10	0.001
hsa-miR-141 HMGB1	-0.09293136	0.1998208	0.041
hsa-miR-141 KLF5	0.355797	4.092884e-07	0.163

Table S2. Results obtained for the test on experimentally validated targets

hsa-miR-141 PTEN	-0.0555048	0.4444713	0.142
hsa-miR-141 SERBP1	0.5947104	6.604362e-06	0.027
hsa-miR-141 SFPQ	0.2625168	0.0684116	0.033
hsa-miR-141 STK3	-0.02533947	0.862789	0.112
hsa-miR-141 TGFB2	-0.3503037	0.01360354	0.101
hsa-miR-141 UBAP1	-0.5366336	7.043539e-05	0.013
hsa-miR-141 ZEB1	-0.3559014	0.01208096	0.071
hsa-miR-141 ZEB2	-0.1808074	0.02548856	0.105
hsa-miR-141 ZFH1B	-0.1018293	0.3109312	0.061
hsa-miR-143 DNMT3A	-0.3506425	6.159756e-07	0.182
hsa-miR-143 ELK1	0.06402099	0.662092	0.381
hsa-miR-143 FNDC3B	0.5833707	1.08681e-05	0.056
hsa-miR-143 KLF4	0.2989176	0.0009660595	0.277
hsa-miR-143 KRAS	0.1714961	0.2305563	0.097
hsa-miR-143 MYO6	-0.2324533	0.0309112	0.033
hsa-miR-145 ACBD3	0.6569536	2.948682e-07	0.128
hsa-miR-145 BNIP3	0.2833011	0.04854898	0.003
hsa-miR-145 CBFB	0.3692756	1.357465e-07	0.157
hsa-miR-145 CCDC25	-0.4548044	0.001026731	0.034
hsa-miR-145 CCNA2	-0.3494647	0.0138453	0.023
hsa-miR-145 CDKN1A	0.3724567	0.002104753	0.129
hsa-miR-145 CLINT1	0.638011	8.174064e-07	0.068
hsa-miR-145 ELK1	0.4893025	0.0003599316	0.143
hsa-miR-145 FBXO28	-0.3215282	0.02427276	0.015
hsa-miR-145 FLI1	0.5773037	9.960166e-11	0.008
hsa-miR-145 FSCN1	0.1606758	0.2010378	0.071
hsa-miR-145 HOXA9	-0.2016059	0.1073009	0.069
hsa-miR-145 IGF1R	0.1875219	0.1624678	0.135
hsa-miR-145 IRS1	-0.198779	0.005709503	0.026
hsa-miR-145 KLF4	0.6794414	7.976702e-08	0.023
hsa-miR-145 KLF5	0.161362	0.08188985	0.073
hsa-miR-145 KRT7	0.1744363	0.01552653	0.283
hsa-miR-145 MUC1	-0.07557581	0.5496092	0.333
hsa-miR-145 MYC	0.4894228	0.0003585481	0.02
hsa-miR-145 MYO6	-0.2510273	0.0004447019	0.032
hsa-miR-145 PPP3CA	0.3792073	5.824831e-08	0.054
hsa-miR-145 RASA1	0.6502812	4.257028e-07	0.201
hsa-miR-145 RTKN	-0.328272	0.0001936076	0.002
hsa-miR-145 SOX2	-0.01248093	0.9213956	0.246
hsa-miR-145 STAT1	0.6185424	2.174181e-06	0.041
hsa-miR-145 TMOD3	-0.1421678	0.1079645	0.237
hsa-miR-145 USP46	0.113604	0.3675589	0.069
hsa-miR-145 YES1	-0.2485956	0.06222843	0.045
hsa-miR-146a ATO8	0.2847596	0.001874313	0.055
hsa-miR-146a BLMH	0.08837268	0.2228754	0.125
hsa-miR-146a BRCA1	0.1933897	0.1227056	0.102
hsa-miR-146a BRCA2	0.1033395	0.4126837	0.2
hsa-miR-146a CCNA2	0.2959142	0.01669698	0.054
hsa-miR-146a CDKN3	-0.2515377	0.0004325132	0.014
hsa-miR-146a CFH	0.1619444	0.2662653	0.022
hsa-miR-146a COL13A1	-0.1113235	0.2677278	0.225
hsa-miR-146a CXCR4	0.4334456	3.387988e-10	0.027
hsa-miR-146a ELL3	-0.3464057	8.573364e-07	0.019

Table S2.Results obtained for the test on experimentally validated targets

hsa-miR-146a FADD	-0.003001539	0.9670415	0.024
hsa-miR-146a FAF1	-0.2869068	5.467421e-05	0.061
hsa-miR-146a IL8	0.7103814	1.082376e-08	0.105
hsa-miR-146a IRAK1	0.5268933	0.0001005135	0.001
hsa-miR-146a IRAK2	-0.03998668	0.5818572	0.223
hsa-miR-146a KIF22	0.2159961	0.083972	0.048
hsa-miR-146a KIT	0.08606238	0.3921418	0.252
hsa-miR-146a LTB	0.1066202	0.2885943	0.223
hsa-miR-146a MCM10	-0.276103	0.05481505	0.246
hsa-miR-146a METTL7A	-0.3426984	1.14045e-06	0.001
hsa-miR-146a MR1	-0.2028753	0.1050606	0.108
hsa-miR-146a NFIX	0.1421369	0.1562235	0.041
hsa-miR-146a PA2G4	-0.1755517	0.02012274	0.014
hsa-miR-146a PBLD	0.1439221	0.04641482	0.019
hsa-miR-146a PDIK1L	-0.2837648	0.04816616	0.133
hsa-miR-146a PEX11G	0.1053686	0.1457942	0.08
hsa-miR-146a PLEKHA4	-0.1482018	0.3095068	0.02
hsa-miR-146a POLE2	-0.3247429	4.31604e-06	0.028
hsa-miR-146a RAD54L	-0.154775	0.1371114	0.082
hsa-miR-146a ROCK1	0.02202528	0.8617483	0.242
hsa-miR-146a SDCBP2	0.07306168	0.4677821	0.165
hsa-miR-146a STAT1	0.5986779	1.338272e-10	0.029
hsa-miR-146a TBP	-0.3343969	2.132286e-06	0.03
hsa-miR-146a TIMELESS	-0.2198068	0.002188389	0.001
hsa-miR-146a TLR2	0.3419869	1.204147e-06	0.82
hsa-miR-146a TMSL8	-0.01356267	0.892918	0.06
hsa-miR-146a TRIM14	0.336592	1.810294e-06	0.213
hsa-miR-146a UHRF1	-0.4064178	0.003759119	0.12
hsa-miR-146a VWCE	-0.08306131	0.4089211	0.256
hsa-miR-146b MMP16	-0.04303823	0.7335474	0.119
hsa-miR-148a DNMT1	0.6248662	7.92931e-11	0.004
hsa-miR-148a DNMT3B	0.668204	1.554565e-07	0.05
hsa-miR-148a TGIF2	0.4885141	2.191562e-07	0.03
hsa-miR-150 CCNE1	-0.2890209	4.787799e-05	0.016
hsa-miR-150 EGR2	0.437572	2.203091e-10	0.113
hsa-miR-150 MYB	-0.02614408	0.795235	0.147
hsa-miR-152 DNMT1	-0.4906874	0.0003442931	0.02
hsa-miR-152 FOXO1	-0.3488771	0.01401682	0.074
hsa-miR-153 FOXO1	-0.2211483	0.126748	0.179
hsa-miR-153 MCL1	-0.1271706	0.3838871	0.192
hsa-miR-155 AGTR1	-0.09403039	0.4562471	0.038
hsa-miR-155 AMIGO2	0.2906589	0.04275849	0.063
hsa-miR-155 ANKFY1	-0.1497142	0.3045402	0.124
hsa-miR-155 APC	-0.2525928	0.07994202	0.149
hsa-miR-155 ARFIP1	-0.03627361	0.774214	0.196
hsa-miR-155 ARFIP2	-0.02943504	0.770134	0.196
hsa-miR-155 ARID2	-0.5381865	6.648567e-05	0.015
hsa-miR-155 ARNTL	-0.4791963	0.0004949488	0.032
hsa-miR-155 ATG3	0.2752449	0.05560361	0.207
hsa-miR-155 ATP6V1C1	-0.101918	0.4191754	0.054
hsa-miR-155 BACH1	0.02330387	0.8737182	0.126
hsa-miR-155 BET1	0.04893475	0.7384546	0.276
hsa-miR-155 BRPF3	0.04157671	0.7766814	0.155

Table S2.Results obtained for the test on experimentally validated targets

hsa-miR-155 CBFB	0.5015867	0.0002411035	0.298
hsa-miR-155 CCND1	0.1676901	0.1073844	0.181
hsa-miR-155 CDK5RAP3	-0.2071263	0.1532936	0.271
hsa-miR-155 CEBPB	-0.07737411	0.5401239	0.113
hsa-miR-155 CHAF1A	-0.4327653	0.001898347	0.067
hsa-miR-155 CLDN1	0.1831291	0.1442444	0.111
hsa-miR-155 CSF1R	0.2352882	0.01785853	0.21
hsa-miR-155 CTNNB1	-0.3050201	0.03308129	0.093
hsa-miR-155 CUL4B	0.4206671	0.002615413	0.111
hsa-miR-155 CYP51A1	-0.2881957	0.04463052	0.091
hsa-miR-155 CYR61	0.557439	3.173444e-05	0.154
hsa-miR-155 DHX40	-0.3327499	0.0194848	0.125
hsa-miR-155 DNAJB1	0.04308275	0.7688111	0.154
hsa-miR-155 DNAJC19	-0.4107226	0.003374427	0.049
hsa-miR-155 DPP7	0.1118124	0.4443404	0.242
hsa-miR-155 DSG2	-0.3900856	0.005591681	0.14
hsa-miR-155 FADS1	-0.1246549	0.2915977	0.049
hsa-miR-155 FADS3	0.4920713	0.0003292821	0.191
hsa-miR-155 FMNL2	-0.1618763	0.2664692	0.11
hsa-miR-155 FOXO3	-0.3207154	0.02465491	0.057
hsa-miR-155 GNA13	-0.4238596	0.002406067	0.03
hsa-miR-155 HIF1A	-0.08460686	0.5632662	0.191
hsa-miR-155 HIVEP2	-0.06980698	0.4878917	0.054
hsa-miR-155 HSD17B12	-0.2744379	0.05635362	0.061
hsa-miR-155 JARID2	-0.5177574	0.0001389492	0.015
hsa-miR-155 KIAA0776	0.08800514	0.4857355	0.024
hsa-miR-155 LDOC1	0.2855967	0.04667777	0.039
hsa-miR-155 LPL	-0.2820316	0.04960969	0.095
hsa-miR-155 LY6K	0.03532605	0.7258038	0.224
hsa-miR-155 MATR3	-0.5232042	0.0001146817	0.028
hsa-miR-155 MECP2	0.1048064	0.4060456	0.312
hsa-miR-155 MEIS1	-0.1616237	0.1063723	0.044
hsa-miR-155 MET	0.2778624	0.02502201	0.117
hsa-miR-155 METTL7A	-0.3603769	0.01097106	0.093
hsa-miR-155 MLH1	-0.3000942	0.03617238	0.212
hsa-miR-155 MOSC1	-0.6301582	1.22272e-06	0.035
hsa-miR-155 MPZL1	0.3030854	0.03426818	0.169
hsa-miR-155 MSH2	-0.422895	0.0024677	0.165
hsa-miR-155 MSH6	-0.4993733	0.0002594447	0.027
hsa-miR-155 MSI2	0.06636399	0.5096546	0.112
hsa-miR-155 MYO10	0.09191875	0.4664684	0.141
hsa-miR-155 NARS	-0.5418426	5.797436e-05	0.04
hsa-miR-155 NT5E	0.3119921	0.01140458	0.111
hsa-miR-155 PDLIM5	0.1317045	0.295655	0.134
hsa-miR-155 PHC2	0.07565672	0.6053887	0.329
hsa-miR-155 PHF17	-0.3299902	0.02058118	0.18
hsa-miR-155 PICALM	0.3062056	0.03237102	0.038
hsa-miR-155 PLXND1	0.7086313	1.220132e-08	0.071
hsa-miR-155 PODXL	-0.349007	0.01397874	0.179
hsa-miR-155 POLE3	-0.01907271	0.8965078	0.022
hsa-miR-155 POLE4	0.3147075	0.02763867	0.523
hsa-miR-155 PPL	0.2224291	0.0749341	0.193
hsa-miR-155 PRAF2	0.1511075	0.3000099	0.029

Table S2. Results obtained for the test on experimentally validated targets

hsa-miR-155 RAB23	0.1182886	0.418232	0.109
hsa-miR-155 RAB34	0.1264249	0.2100639	0.051
hsa-miR-155 RAB5C	0.1265608	0.3861902	0.217
hsa-miR-155 RAB6A	-0.03066003	0.8343477	0.156
hsa-miR-155 RAI14	0.6122904	2.935704e-06	0.09
hsa-miR-155 RCN2	-0.4369425	0.001694872	0.04
hsa-miR-155 RCOR1	-0.03916061	0.7567772	0.25
hsa-miR-155 RHEB	-0.07351535	0.6156655	0.332
hsa-miR-155 RHOA	0.5387719	6.505025e-05	0.583
hsa-miR-155 SDCBP	-0.01813255	0.9015835	0.06
hsa-miR-155 SH3BP4	0.2602205	0.03630711	0.122
hsa-miR-155 SLA	-0.129819	0.3739794	0.197
hsa-miR-155 SMAD1	-0.06188117	0.6727396	0.229
hsa-miR-155 SMAD5	-0.1036844	0.4111171	0.283
hsa-miR-155 SOCS1	-0.3221705	0.02397435	0.124
hsa-miR-155 SYPL1	-0.1050102	0.4051282	0.105
hsa-miR-155 TACSTD2	0.1545049	0.1229019	0.581
hsa-miR-155 TBCA	-0.2077991	0.1519334	0.151
hsa-miR-155 TM6SF1	0.6114133	3.060444e-06	0.06
hsa-miR-155 TP53INP1	0.08661912	0.5539878	0.075
hsa-miR-155 TRAM1	0.2954821	0.03927876	0.005
hsa-miR-155 TRIP13	-0.2051985	0.1572413	0.105
hsa-miR-155 TXNDC12	-0.3632924	0.01029618	0.104
hsa-miR-155 UBE2J1	0.7149884	7.862794e-09	0.269
hsa-miR-155 VAMP3	0.5994744	5.326874e-06	0.055
hsa-miR-155 WDFY1	0.2727117	0.05798528	0.122
hsa-miR-155 ZIC3	-0.4456102	0.001333423	0.092
hsa-miR-155 ZNF652	-0.1949509	0.1794832	0.081
hsa-miR-15a ACTR1A	0.08883	0.5438777	0.053
hsa-miR-15a BACE1	0.02922633	0.8419925	0.155
hsa-miR-15a BCL2	0.1050918	0.4047612	0.104
hsa-miR-15a BMI1	0.5203866	0.000126705	0.242
hsa-miR-15a BRCA1	-0.116257	0.3564034	0.194
hsa-miR-15a CCND1	-0.6366112	8.789675e-07	0.009
hsa-miR-15a CCND2	0.4342908	0.001821649	0.008
hsa-miR-15a CCNE1	0.1522423	0.2260208	0.125
hsa-miR-15a CDC14B	-0.3575799	0.01165392	0.042
hsa-miR-15a CDC25A	-0.1797909	0.1518287	0.132
hsa-miR-15a CENPJ	0.08023591	0.5836664	0.153
hsa-miR-15a DMTF1	0.1022852	0.4843332	0.195
hsa-miR-15a ECHDC1	-0.1144846	0.4334599	0.395
hsa-miR-15a GOLGA5	-0.1683462	0.2475678	0.212
hsa-miR-15a GOLPH3L	-0.1623302	0.2651127	0.084
hsa-miR-15a H3F3B	0.37756	0.007484577	0.052
hsa-miR-15a HDHD2	0.3529504	0.01286433	0.241
hsa-miR-15a HERC6	0.02957679	0.8150781	0.07
hsa-miR-15a HRSP12	0.1253111	0.3909355	0.345
hsa-miR-15a HSDL2	0.6560741	3.096522e-07	0.044
hsa-miR-15a HSPA1A	0.1654295	0.1878549	0.414
hsa-miR-15a JUN	0.07498899	0.5801002	0.074
hsa-miR-15a MCL1	-0.3901632	0.005581402	0.024
hsa-miR-15a MSH2	-0.1800174	0.2158152	0.154
hsa-miR-15a PDCD4	0.1470254	0.3134059	0.201

Table S2.Results obtained for the test on experimentally validated targets

hsa-miR-15a PNN	0.05449326	0.6663704	0.162
hsa-miR-15a PRIM1	-0.08842667	0.5457154	0.125
hsa-miR-15a RAB21	0.3398401	0.01689188	0.115
hsa-miR-15a RAD51C	0.3406888	0.01660213	0.183
hsa-miR-15a SLC35A1	0.08766914	0.5491751	0.199
hsa-miR-15a SLC35B3	-0.2069095	0.153734	0.072
hsa-miR-15a TIA1	0.4920698	0.0003292984	0.155
hsa-miR-15a TPI1	-0.3598963	0.0110859	0.079
hsa-miR-15a UGDH	-0.1860567	0.2005503	0.016
hsa-miR-15a UGP2	-0.3967717	0.004763938	0.036
hsa-miR-15b BCL2	-0.1753626	0.1623415	0.032
hsa-miR-15b CASP8	0.08552242	0.4981726	0.027
hsa-miR-15b CCNE1	-0.2236573	0.122388	0.101
hsa-miR-15b RECK	-0.4366234	0.0017097	0.033
hsa-miR-16 ABHD10	0.2414288	0.09468274	0.142
hsa-miR-16 ACTR1A	-0.03937656	0.7882187	0.031
hsa-miR-16 ACVR2A	-0.1189218	0.3454107	0.036
hsa-miR-16 ARHGDI A	-0.5483799	4.519843e-05	0.038
hsa-miR-16 ARL2	-0.1365916	0.3493481	0.068
hsa-miR-16 ATG9A	0.4358114	0.0002849144	0.382
hsa-miR-16 BCL2	-0.2134465	0.08778383	0.009
hsa-miR-16 BMI1	0.3099004	0.03023786	0.267
hsa-miR-16 BRCA1	-0.04596773	0.716153	0.214
hsa-miR-16 CA12	-0.0892593	0.541925	0.083
hsa-miR-16 CAPRIN1	0.4469253	0.0001898617	0.159
hsa-miR-16 CASP8	0.1832258	0.1440289	0.366
hsa-miR-16 CCND1	-0.7950686	8.950798e-12	0.001
hsa-miR-16 CCND3	-0.312367	0.02887989	0.082
hsa-miR-16 CCNE1	-0.2128561	0.0886857	0.161
hsa-miR-16 CCNT2	0.4651008	0.0007595191	0.617
hsa-miR-16 CDC14B	-0.2501997	0.08293912	0.181
hsa-miR-16 CDK1	0.2076667	0.1522003	0.117
hsa-miR-16 CDK2	0.4719117	0.0006189677	0.355
hsa-miR-16 CDK5RAP1	0.2007377	0.1666609	0.234
hsa-miR-16 CENPJ	0.2887924	0.04417099	0.303
hsa-miR-16 CFL2	0.2106717	0.1462249	0.17
hsa-miR-16 CHORDC1	0.1524681	0.2956281	0.287
hsa-miR-16 CRHBP	-0.6911752	3.84982e-08	0.094
hsa-miR-16 DNAJB4	0.0159794	0.899464	0.225
hsa-miR-16 ECHDC1	-0.002402306	0.9869296	0.237
hsa-miR-16 EGFR	-0.04575031	0.7174391	0.254
hsa-miR-16 EIF4E	-0.3617536	0.00306696	0.049
hsa-miR-16 FGF2	-0.3737242	0.002165506	0.028
hsa-miR-16 FNDC3B	0.09752969	0.5049793	0.21
hsa-miR-16 GALNT7	0.133658	0.2884864	0.158
hsa-miR-16 GFM1	0.3518491	0.01316765	0.531
hsa-miR-16 GFPT1	-0.1616051	0.267282	0.014
hsa-miR-16 GNL3L	0.2868471	0.04568342	0.208
hsa-miR-16 GOLGA5	-0.274048	0.05671894	0.047
hsa-miR-16 GOLPH3L	0.04891314	0.738566	0.137
hsa-miR-16 GSTM4	0.3296078	0.007335984	0.344
hsa-miR-16 H3F3B	0.1968858	0.1751192	0.033
hsa-miR-16 HARS	-0.1933217	0.1832179	0.04

Table S2.Results obtained for the test on experimentally validated targets

hsa-miR-16 HARS2	0.6322824	1.097742e-06	0.875
hsa-miR-16 HBXIP	0.2561913	0.07559634	0.756
hsa-miR-16 HDHD2	0.3341921	0.01893171	0.583
hsa-miR-16 HERC6	-0.006811877	0.9570514	0.25
hsa-miR-16 HMGA1	-0.2493162	0.04519902	0.016
hsa-miR-16 HMOX1	0.1263783	0.386881	0.221
hsa-miR-16 HRSP12	0.1964326	0.1761345	0.276
hsa-miR-16 HSDL2	0.4340485	0.001833644	0.019
hsa-miR-16 HSPA1A	0.1851529	0.2027848	0.172
hsa-miR-16 HSPA1B	0.3767001	0.007632842	0.135
hsa-miR-16 IFRD1	-0.2530299	0.04198863	0.057
hsa-miR-16 IFRD2	-0.3628225	0.01040248	0.129
hsa-miR-16 IGF2R	0.2890356	0.01953584	0.137
hsa-miR-16 IPO4	-0.2856802	0.04661078	0.158
hsa-miR-16 ITGA2	-0.3701028	0.008857434	0.049
hsa-miR-16 JUN	-0.2983417	0.01578332	0.046
hsa-miR-16 KCNN4	-0.2734562	0.02751779	0.208
hsa-miR-16 KPNA3	0.4950386	0.0002990744	0.265
hsa-miR-16 LAMC1	0.109312	0.3860499	0.082
hsa-miR-16 LYPLA2	-0.3033397	0.03411023	0.034
hsa-miR-16 MCL1	-0.5420518	5.751881e-05	0.005
hsa-miR-16 MLLT1	-0.7650918	1.545014e-10	0.011
hsa-miR-16 MLLT11	0.4240566	0.002393652	0.008
hsa-miR-16 MRPL20	0.281913	0.04970976	0.114
hsa-miR-16 MSH2	0.06050431	0.6796247	0.208
hsa-miR-16 NOTCH2	0.1121927	0.3735788	0.272
hsa-miR-16 PDCD4	0.08578305	0.557834	0.161
hsa-miR-16 PHLDB2	-0.1169422	0.4235868	0.05
hsa-miR-16 PLK1	0.2331566	0.1069029	0.266
hsa-miR-16 PNN	0.3452566	0.004851802	0.183
hsa-miR-16 PPIF	0.2134294	0.0878099	0.1
hsa-miR-16 PRIM1	0.1719043	0.2375699	0.198
hsa-miR-16 PSAT1	0.3816306	0.006816172	0.2
hsa-miR-16 PTGS2	0.01484186	0.9103825	0.281
hsa-miR-16 RAB21	0.3086343	0.03095522	0.672
hsa-miR-16 RAD51C	0.2455341	0.08903508	0.635
hsa-miR-16 RARS	-0.07011123	0.6321529	0.001
hsa-miR-16 RECK	0.02103964	0.8859022	0.037
hsa-miR-16 RTN4	0.4062695	0.003773024	0.065
hsa-miR-16 SEC24A	0.1586915	0.2067312	0.216
hsa-miR-16 SERPINE2	0.3123041	0.02891384	0.143
hsa-miR-16 SHOC2	0.1443432	0.3224123	0.276
hsa-miR-16 SLC16A3	-0.1408233	0.2631782	0.17
hsa-miR-16 SLC35A1	-0.09132086	0.5325949	0.219
hsa-miR-16 SLC35B3	-0.2456611	0.08886468	0.013
hsa-miR-16 SLC38A1	-0.2856855	0.02106128	0.001
hsa-miR-16 SLC7A1	-0.4619961	0.0001070391	0.001
hsa-miR-16 SNX15	0.1890288	0.1933247	0.241
hsa-miR-16 SPTLC1	-0.1049511	0.4729559	0.26
hsa-miR-16 SQSTM1	-0.0767887	0.5432029	0.183
hsa-miR-16 SRPR	-0.5174594	0.0001404029	0.017
hsa-miR-16 SRPRB	-0.1847602	0.2037611	0.022
hsa-miR-16 TIA1	0.522962	0.0001156729	0.031

Table S2.Results obtained for the test on experimentally validated targets

hsa-miR-16 TMEM109	-0.3677277	0.009338103	0.052
hsa-miR-16 TMEM43	0.1707703	0.2407259	0.104
hsa-miR-16 TOMM34	0.2766981	0.05427342	0.457
hsa-miR-16 TPI1	-0.2398914	0.09686794	0.116
hsa-miR-16 TPM3	-0.1347407	0.3559785	0.223
hsa-miR-16 TXN2	0.3136902	0.02817257	0.483
hsa-miR-16 UBE2S	0.2462861	0.0880296	0.374
hsa-miR-16 UBE2V1	-0.1799604	0.215963	0.058
hsa-miR-16 UBE4A	0.05150746	0.7252298	0.143
hsa-miR-16 UGDH	-0.2915344	0.01846029	0.003
hsa-miR-16 UGP2	-0.05915358	0.6864043	0.31
hsa-miR-16 VTI1B	-0.2553805	0.07655886	0.157
hsa-miR-16 YIF1B	-0.3395605	0.01698828	0.054
hsa-miR-16 ZNF622	-0.4749991	0.000563343	0.134
hsa-miR-17-3p VIM	-0.2877132	0.04500495	0.269
hsa-miR-17-5p BMPR2	0.1022628	0.4175956	0.186
hsa-miR-17-5p CCND1	-0.7916036	1.273634e-11	0.001
hsa-miR-17-5p PTPRO	-0.2193438	0.0791668	0.188
hsa-miR-181a BCL2	0.2142582	0.08655574	0.295
hsa-miR-181a BDNF	0.1415086	0.2608386	0.038
hsa-miR-181a GATA6	0.2069207	0.09816192	0.026
hsa-miR-181a HOXA11	-0.1338781	0.3590947	0.027
hsa-miR-181a NLK	-0.6343105	9.89604e-07	0.005
hsa-miR-181a PLAG1	0.02216077	0.8609063	0.024
hsa-miR-181b BCL2	0.2270442	0.06894131	0.112
hsa-miR-181b GATA6	0.4178924	0.0005327353	0.016
hsa-miR-181b GRIA2	0.4442284	0.001385981	0.018
hsa-miR-181b NLK	-0.5451199	5.120555e-05	0.038
hsa-miR-181b PLAG1	-0.0253037	0.8414191	0.043
hsa-miR-181b TIMP3	-0.2430529	0.05106939	0.086
hsa-miR-181b VSNL1	0.2474067	0.04692676	0.008
hsa-miR-181c BCL2	0.3697074	1.309202e-07	0.02
hsa-miR-181c GATA6	0.1601449	0.02649464	0.048
hsa-miR-181c KRAS	-0.6930753	3.410467e-08	0.001
hsa-miR-181c NLK	-0.5572725	3.194439e-05	0.004
hsa-miR-181c NOTCH2	-0.118053	0.2035926	0.073
hsa-miR-181c NOTCH4	0.109331	0.385967	0.246
hsa-miR-182 ADCY6	-0.4068969	0.002166153	0.118
hsa-miR-182 CDKN1A	-0.6432831	6.19783e-07	0.003
hsa-miR-182 EP300	-0.05754756	0.4278637	0.153
hsa-miR-182 FOXO1	0.4274447	0.002188782	0.011
hsa-miR-182 IGF1R	-0.03091992	0.806839	0.108
hsa-miR-182 MITF	-0.04835116	0.5054187	0.179
hsa-miR-182 RARG	0.02221907	0.8795521	0.174
hsa-miR-183 BTRC	0.2225151	0.001921455	0.135
hsa-miR-183 FOXO1	0.4412576	1.507293e-09	0.002
hsa-miR-183 VIL2	-0.09235567	0.202633	0.006
hsa-miR-184 AKT2	0.08631515	0.2338771	0.038
hsa-miR-185 CCNE1	-0.1885458	0.1944863	0.07
hsa-miR-185 CORO2B	0.1461462	0.3163405	0.01
hsa-miR-185 HMGA2	-0.367108	0.00946715	0.028
hsa-miR-186 FOXO1	0.3079957	0.0313224	0.144
hsa-miR-18a CTGF	-0.1442449	0.3227452	0.022

Table S2.Results obtained for the test on experimentally validated targets

hsa-miR-18a ESR1	-0.6049967	1.491125e-20	0.001
hsa-miR-18a* KRAS	0.6736914	1.126317e-07	0.181
hsa-miR-18a PTEN	-0.320267	5.936783e-06	0.002
hsa-miR-18a THBS1	-0.2336803	0.001105869	0.054
hsa-miR-18b ESR1	-0.1639119	0.101445	0.106
hsa-miR-192 CDKN1A	-0.3188589	0.0255466	0.141
hsa-miR-192 DHFR	0.210777	0.1460187	0.246
hsa-miR-193b CCND1	0.6521497	3.844518e-07	0.081
hsa-miR-193b MCL1	0.4053876	0.0038567	0.041
hsa-miR-195 BCL2L11	-0.08353807	0.2493237	0.003
hsa-miR-195 CCND1	0.4163453	0.0005614115	0.157
hsa-miR-195 CDK6	-0.2553006	0.0003517622	0.023
hsa-miR-195 E2F3	-0.4168126	1.812742e-09	0.036
hsa-miR-195 MECP2	0.3279221	0.007660723	0.199
hsa-miR-195 WEE1	-0.1218181	0.3337045	0.062
hsa-miR-196a ANXA1	0.4050955	0.003884777	0.231
hsa-miR-196a BMP4	0.2508021	0.05876419	0.1
hsa-miR-196a HOXA7	0.5008894	0.0002467503	0.017
hsa-miR-196a HOXB8	0.2100843	0.1473791	0.016
hsa-miR-196a HOXD8	0.4090203	0.003522196	0.054
hsa-miR-196a KRT5	0.01767231	0.8607594	0.168
hsa-miR-196a S100A9	0.09467472	0.346324	0.2
hsa-miR-196b HOXB8	0.09489672	0.5166004	0.003
hsa-miR-197 ACVR1	0.4668491	0.0007209425	0.139
hsa-miR-197 TSPAN3	0.4792992	0.0004933696	0.305
hsa-miR-199a ETS2	0.4640636	1.206368e-11	0.136
hsa-miR-199a* ETS2	0.4459366	9.044032e-11	0.012
hsa-miR-199a JUNB	0.5292794	3.108624e-15	0.106
hsa-miR-199a* JUNB	0.5224726	7.549517e-15	0.311
hsa-miR-199a LIF	0.3641415	0.01010648	0.48
hsa-miR-199a MECP2	0.3267275	0.007898407	0.558
hsa-miR-199a* MECP2	0.2365961	0.05775885	0.44
hsa-miR-199a* MET	-0.3262122	3.882811e-06	0.001
hsa-miR-199a* SMAD1	-0.6898517	4.186608e-08	0.014
hsa-miR-199b-5p HES1	-0.1002708	0.3184331	0.187
hsa-miR-199b-5p LAMC2	-0.03809603	0.7052581	0.081
hsa-miR-199b LAMC2	0.3196532	0.02516186	0.072
hsa-miR-199b SET	-0.05798355	0.424366	0.064
hsa-miR-19a ATXN1	-0.1414372	0.2610816	0.073
hsa-miR-19a CCND1	-0.59669	6.042548e-06	0.004
hsa-miR-19a CTGF	-0.04928396	0.6966346	0.231
hsa-miR-19a ERBB4	-0.1674716	0.1823873	0.045
hsa-miR-19a HOXA5	0.1994113	0.1695392	0.094
hsa-miR-19a MECP2	-0.07508941	0.5521885	0.104
hsa-miR-19a NR4A2	0.114753	0.362702	0.18
hsa-miR-19a PTEN	-0.1832248	0.1440311	0.044
hsa-miR-19a SOCS1	0.4689715	0.0006764836	0.168
hsa-miR-19a THBS1	0.2164954	0.1351419	0.084
hsa-miR-19b BACE1	-0.6083468	3.536246e-06	0.053
hsa-miR-19b CTGF	-0.1419958	0.3304272	0.051
hsa-miR-19b NR3C2	0.2009965	0.1083894	0.259
hsa-miR-19b PTEN	-0.05281908	0.676042	0.07
hsa-miR-19b SOCS1	0.4168482	0.002886873	0.093

Table S2.Results obtained for the test on experimentally validated targets

hsa-miR-1 ABHD11	0.0004149727	0.996714	0.223
hsa-miR-1 ACPL2	-0.2236025	0.001822895	0.012
hsa-miR-1 ADAR	-0.4063773	8.426272e-05	0.001
hsa-miR-1 ADPGK	-0.0742451	0.3060877	0.078
hsa-miR-1 AGMAT	0.2171797	0.002479118	0.319
hsa-miR-1 AGRN	-0.1565291	0.03014724	0.087
hsa-miR-1 ANKIB1	-0.004260144	0.9768237	0.099
hsa-miR-1 ANP32B	-0.1858702	0.009845526	0.052
hsa-miR-1 ANPEP	-0.2924539	0.04143508	0.167
hsa-miR-1 ANXA2	0.2965701	0.0385269	0.019
hsa-miR-1 AP3B1	0.5158682	1.520011e-05	0.001
hsa-miR-1 AP3D1	-0.1704763	0.01807416	0.008
hsa-miR-1 ARCN1	0.4424394	0.001456767	0.019
hsa-miR-1 ARF3	-0.1671343	0.02049938	0.154
hsa-miR-1 ARF4	0.3793174	0.007189338	0.013
hsa-miR-1 ARHGEF18	-0.2024455	0.00486153	0.123
hsa-miR-1 ARID1A	0.05498905	0.5849506	0.269
hsa-miR-1 ARID2	-0.1864647	0.009608443	0.043
hsa-miR-1 ASH2L	-0.1802443	0.2152274	0.006
hsa-miR-1 ATP6V0A1	-0.2003955	0.005320568	0.012
hsa-miR-1 ATP6V1B2	-0.01720207	0.9066108	0.408
hsa-miR-1 AXL	0.44855	6.813683e-11	0.033
hsa-miR-1 BCKDHB	0.2023232	0.004887895	0.298
hsa-miR-1 BCL2	0.4444575	1.060489e-10	0.222
hsa-miR-1 BDNF	0.6026488	4.607104e-06	0.033
hsa-miR-1 BLCAP	0.06366843	0.3802991	0.016
hsa-miR-1 BRI3BP	-0.3390895	1.500349e-06	0.068
hsa-miR-1 BRWD2	-0.1398474	0.05303368	0.001
hsa-miR-1 CAND1	-0.1855007	0.009995489	0.044
hsa-miR-1 CAP1	0.5021872	0.0002363351	0.011
hsa-miR-1 CDCP1	-0.04620234	0.7525827	0.25
hsa-miR-1 CDK9	0.1463627	0.04279144	0.115
hsa-miR-1 CEBPA	-0.2927599	3.776235e-05	0.007
hsa-miR-1 CHST11	-0.153504	0.1103169	0.174
hsa-miR-1 CHSY1	0.4645657	1.138956e-11	0.118
hsa-miR-1 CLCN3	-0.1505475	0.03713111	0.073
hsa-miR-1 CNN3	-0.0638043	0.5261525	0.078
hsa-miR-1 COIL	-0.3439714	1.034438e-06	0.001
hsa-miR-1 CORO1C	0.3958874	0.004866854	0.007
hsa-miR-1 CPOX	-0.1482212	0.04019412	0.114
hsa-miR-1 CSRP1	0.2963168	3.003727e-05	0.145
hsa-miR-1 CTSC	0.2545105	0.07760237	0.093
hsa-miR-1 DDX5	-0.1454804	0.318574	0.146
hsa-miR-1 DHX15	0.08545204	0.3072278	0.195
hsa-miR-1 DNAJB1	0.07259346	0.6201125	0.139
hsa-miR-1 EGFR	-0.01242735	0.8641604	0.032
hsa-miR-1 EHMT1	-0.1699164	0.01846219	0.058
hsa-miR-1 EHMT2	-0.3574644	3.580315e-07	0.013
hsa-miR-1 EML4	-0.3250272	4.228762e-06	0.001
hsa-miR-1 EPB41L4B	0.1645451	0.02256722	0.086
hsa-miR-1 F2	0.1741686	0.0156883	0.39
hsa-miR-1 FBLN2	-0.3157049	0.02712344	0.02
hsa-miR-1 FN1	0.3654889	0.009811622	0.034

Table S2.Results obtained for the test on experimentally validated targets

hsa-miR-1 FOXP1	0.2121226	0.01822052	0.004
hsa-miR-1 G6PD	-0.1940106	0.181632	0.183
hsa-miR-1 GAK	-0.2258217	0.1187188	0.132
hsa-miR-1 GATA4	-0.03377627	0.6418639	0.38
hsa-miR-1 GCH1	0.3619825	2.481994e-07	0.351
hsa-miR-1 GJA1	0.3623395	0.0105127	0.114
hsa-miR-1 GNPDA2	0.2165039	0.1351262	0.211
hsa-miR-1 GNPNAT1	0.1870438	0.009382365	0.257
hsa-miR-1 GOLGA7	0.1381459	0.0560203	0.155
hsa-miR-1 H3F3B	-0.2958255	0.03904019	0.018
hsa-miR-1 HAND2	0.4779138	2.384981e-12	0.636
hsa-miR-1 HDAC4	-0.3285245	0.0002534439	0.007
hsa-miR-1 HIST1H3B	-0.06212926	0.5370922	0.006
hsa-miR-1 HIST1H3I	0.02523437	0.8022119	0.079
hsa-miR-1 IGF1	0.1937766	0.00970258	0.042
hsa-miR-1 IHPK2	-0.1501209	0.03767751	0.082
hsa-miR-1 IQGAP3	-0.06868992	0.6390902	0.127
hsa-miR-1 ITGB4	-0.09066694	0.3672117	0.207
hsa-miR-1 KCNJ2	0.1916577	0.1870895	0.034
hsa-miR-1 KIAA1598	-0.1137318	0.1162468	0.025
hsa-miR-1 KIAA1618	-0.2348701	0.001041031	0.126
hsa-miR-1 LARP4	0.3569376	0.01181578	0.035
hsa-miR-1 LASP1	0.4093163	1.571463e-06	0.024
hsa-miR-1 LASS2	0.168957	0.02945875	0.038
hsa-miR-1 LIN7C	0.2190358	0.002270325	0.294
hsa-miR-1 LRP1	0.1308517	0.3701578	0.101
hsa-miR-1 LRRRC8A	-0.02899908	0.8432057	0.204
hsa-miR-1 LZTFL1	0.0995818	0.3217867	0.004
hsa-miR-1 MEF2A	0.1318589	0.06828394	0.474
hsa-miR-1 MET	-0.1402093	0.05241572	0.01
hsa-miR-1 MMD	-0.1582729	0.1376308	0.001
hsa-miR-1 MOV10	-0.4195145	1.388973e-09	0.001
hsa-miR-1 MRC2	0.2463478	0.0005722368	0.033
hsa-miR-1 MTHFD2	0.4518535	0.0002680659	0.133
hsa-miR-1 MTX1	-0.3248108	4.295039e-06	0.053
hsa-miR-1 MXD4	-0.2569913	0.0746561	0.073
hsa-miR-1 NETO2	-0.2306635	0.001614768	0.133
hsa-miR-1 NOTCH2	-0.03337374	0.6458404	0.143
hsa-miR-1 NP	0.142479	0.04867528	0.062
hsa-miR-1 NRP1	0.2635437	0.0002212465	0.156
hsa-miR-1 OAT	0.338692	0.0172907	0.085
hsa-miR-1 PDCD4	0.2208581	0.03058893	0.089
hsa-miR-1 PDLIM7	0.3043177	0.03350821	0.094
hsa-miR-1 PFTK1	-0.1856446	0.009936855	0.127
hsa-miR-1 PGM2	0.119987	0.09737261	0.026
hsa-miR-1 PICALM	0.5322116	8.28873e-05	0.053
hsa-miR-1 PIM1	0.2196723	0.002202491	0.031
hsa-miR-1 PLEKHB2	-0.2079522	0.1516251	0.004
hsa-miR-1 PLEKHC1	0.1970002	0.006166731	0.073
hsa-miR-1 POGK	-0.2016364	0.005038286	0.104
hsa-miR-1 POLA2	0.0529955	0.7176165	0.413
hsa-miR-1 POLR2K	-0.2876528	5.217877e-05	0.025
hsa-miR-1 POM121	-0.09190452	0.5299677	0.115

Table S2.Results obtained for the test on experimentally validated targets

hsa-miR-1 PPIB	-0.1829946	0.01106689	0.051
hsa-miR-1 PREX1	-0.343885	0.01554846	0.151
hsa-miR-1 PTBP1	-0.241233	0.0007497336	0.081
hsa-miR-1 PTBP2	-0.2613487	0.0002506922	0.009
hsa-miR-1 PTMA	-0.06028783	0.593985	0.162
hsa-miR-1 PTPLAD1	0.09114402	0.3121887	0.078
hsa-miR-1 PTPLB	0.5595577	2.917169e-05	0.007
hsa-miR-1 PTPRF	-0.423132	9.688395e-10	0.002
hsa-miR-1 PWP1	-0.3025813	1.992436e-05	0.063
hsa-miR-1 RAB11FIP2	0.2034709	0.1608419	0.186
hsa-miR-1 RABGAP1L	0.09151269	0.2068022	0.101
hsa-miR-1 RFT1	-0.2562811	0.0003331499	0.005
hsa-miR-1 RHEB	-0.2495968	0.0004805786	0.007
hsa-miR-1 RNF138	0.05367044	0.4596906	0.238
hsa-miR-1 SAC3D1	-0.1714985	0.238696	0.042
hsa-miR-1 SDC4	0.4368412	6.655093e-05	0.146
hsa-miR-1 SERP1	0.4797235	0.0004869091	0.228
hsa-miR-1 SFRS9	-0.338762	1.53789e-06	0.001
hsa-miR-1 SFXN1	0.1624973	0.02432772	0.116
hsa-miR-1 SH2D4A	0.09021128	0.3696344	0.367
hsa-miR-1 SH3BGRL3	0.1100678	0.1708943	0.03
hsa-miR-1 SLC16A9	-0.1608232	0.04560135	0.156
hsa-miR-1 SLC25A1	-0.2165463	0.01803146	0.002
hsa-miR-1 SLC25A30	-0.02914006	0.6882544	0.124
hsa-miR-1 SNX6	0.2225554	0.1242887	0.044
hsa-miR-1 SSNA1	-0.01990105	0.8920391	0.324
hsa-miR-1 SYNE1	0.209288	0.01185639	0.059
hsa-miR-1 TAGLN2	0.2597428	0.07149245	0.093
hsa-miR-1 TDP1	0.2592471	0.07205444	0.273
hsa-miR-1 TH1L	-0.3253208	4.140424e-06	0.001
hsa-miR-1 THBS1	0.5161098	7.586909e-11	0.004
hsa-miR-1 TIMP3	0.4631816	1.33431e-11	0.321
hsa-miR-1 TMSB4X	0.2020266	0.163898	0.201
hsa-miR-1 TPM1	0.4252216	0.002321364	0.027
hsa-miR-1 TPM2	0.5526779	7.694049e-07	0.036
hsa-miR-1 TPM3	-0.224363	0.001756723	0.029
hsa-miR-1 TPM4	0.2807124	8.018072e-05	0.157
hsa-miR-1 TRAPPC3	0.349393	0.01386614	0.009
hsa-miR-1 TRIM2	-0.04422394	0.7628627	0.077
hsa-miR-1 UHRF1	-0.231543	0.01981836	0.068
hsa-miR-1 UST	0.2639724	0.06683772	0.207
hsa-miR-1 WDFY1	0.4161478	0.002939275	0.016
hsa-miR-1 YWHAQ	-0.296123	3.041644e-05	0.019
hsa-miR-200a BAP1	-0.4369672	2.347399e-10	0.003
hsa-miR-200a CTNNB1	0.3028042	0.0101809	0.089
hsa-miR-200a CTNNBIP1	-0.0875912	0.2270099	0.007
hsa-miR-200a DLX5	-0.01982825	0.8924317	0.155
hsa-miR-200a ELMO2	-0.02533727	0.7272042	0.156
hsa-miR-200a ERBB2IP	-0.303993	0.002494101	0.003
hsa-miR-200a G3BP2	0.348771	0.001729019	0.161
hsa-miR-200a RAB30	0.1795727	0.01269268	0.584
hsa-miR-200a ZEB1	-0.2262021	0.1180826	0.025
hsa-miR-200a ZEB2	-0.4753922	1.221689e-11	0.021

Table S2.Results obtained for the test on experimentally validated targets

hsa-miR-200b BAP1	-0.4782304	2.296251e-12	0.001
hsa-miR-200b ELMO2	-0.04651004	0.5217823	0.04
hsa-miR-200b EP300	-0.09892783	0.1721952	0.009
hsa-miR-200b ERBB2IP	-0.3221592	0.000869146	0.001
hsa-miR-200b ERRFI1	0.1596401	0.02698068	0.001
hsa-miR-200b PTPN12	0.1054792	0.1453693	0.127
hsa-miR-200b RERE	0.1416182	0.3317279	0.067
hsa-miR-200b ZEB1	-0.233829	0.1058665	0.041
hsa-miR-200b ZEB2	-0.4821091	2.607736e-11	0.018
hsa-miR-200c BMI1	-0.6689967	1.484469e-07	0.001
hsa-miR-200c CDH1	0.9052645	4.867469e-09	0.022
hsa-miR-200c ERBB2IP	-0.5299189	9.010697e-05	0.003
hsa-miR-200c ERRFI1	-0.04761796	0.7452528	0.186
hsa-miR-200c KLHL20	-0.1608318	0.2005951	0.122
hsa-miR-200c PTPRD	-0.02379924	0.8507361	0.136
hsa-miR-200c TUBB3	-0.1269799	0.3134696	0.204
hsa-miR-200c ZEB1	-0.3579593	0.01155921	0.048
hsa-miR-200c ZEB2	-0.518053	0.0001375208	0.012
hsa-miR-200c ZFHX1B	-0.03928278	0.6965191	0.057
hsa-miR-203 SOCS3	0.3115206	1.09095e-05	0.274
hsa-miR-204 ARPC1B	-0.6957815	2.865266e-08	0.004
hsa-miR-204 AURKB	0.1898666	0.1913219	0.128
hsa-miR-204 BCL2	-0.1293899	0.0736635	0.044
hsa-miR-204 BMP1	-0.4292749	0.002084713	0.066
hsa-miR-204 CDC25B	-0.3946376	1.477695e-08	0.001
hsa-miR-204 CDH11	-0.4130245	0.00318331	0.042
hsa-miR-204 CTSC	-0.564193	2.421451e-05	0.009
hsa-miR-204 EFNB1	0.06138441	0.5419927	0.112
hsa-miR-204 FBN2	-0.1202326	0.410569	0.174
hsa-miR-204 HMGA2	-0.2288309	0.1137567	0.246
hsa-miR-204 HOXA10	-0.3250532	0.02267258	0.062
hsa-miR-204 HOXB7	-0.3403621	0.01671317	0.112
hsa-miR-204 ITGB4	-0.07368781	0.463966	0.168
hsa-miR-204 MCL1	-0.2341792	0.02122147	0.082
hsa-miR-204 MEIS1	0.0827154	0.4108818	0.004
hsa-miR-204 MEIS2	0.5676273	2.105525e-05	0.008
hsa-miR-204 MMP3	-0.2609561	0.07013168	0.125
hsa-miR-204 MMP9	0.13919	0.3401691	0.106
hsa-miR-204 SHC1	-0.7519884	4.719252e-10	0.001
hsa-miR-204 SNAI2	-0.5486866	4.466804e-05	0.003
hsa-miR-204 SOX4	0.7585761	2.715734e-10	0.007
hsa-miR-204 SPARC	-0.2646404	0.0002077731	0.011
hsa-miR-204 TGFB2	0.1126658	0.1197301	0.243
hsa-miR-205 DDX5	-0.3224622	0.01443162	0.003
hsa-miR-205 ERBB3	0.7563462	3.280687e-10	0.014
hsa-miR-205 INPPL1	-0.3448983	0.01522653	0.074
hsa-miR-205 LRP1	-0.2905397	0.04284755	0.149
hsa-miR-205 MED1	0.561987	2.646808e-05	0.091
hsa-miR-205 SIP1	0.00486114	0.9713717	0.134
hsa-miR-205 VEGF	0.0318737	0.7516838	0.04
hsa-miR-205 VEGFA	0.4337939	0.0007487833	0.149
hsa-miR-205 ZEB1	-0.32447	0.02293101	0.077
hsa-miR-205 ZEB2	-0.5421268	5.735634e-05	0.008

Table S2. Results obtained for the test on experimentally validated targets

hsa-miR-206 ESR1	-0.2560538	0.05454041	0.132
hsa-miR-206 FSTL1	-0.1075823	0.4257128	0.199
hsa-miR-206 GJA1	0.06142554	0.6498955	0.416
hsa-miR-206 NOTCH3	-0.3003711	0.02319468	0.048
hsa-miR-206 UTRN	-0.005269598	0.9689674	0.181
hsa-miR-20a APP	0.4247232	0.002352048	0.185
hsa-miR-20a BCL2	0.1914648	0.1265471	0.094
hsa-miR-20a BMPR2	-0.0261956	0.8359057	0.15
hsa-miR-20a CCND1	-0.8047805	3.209752e-12	0.001
hsa-miR-20a CDKN1A	-0.4864824	0.0003937801	0.062
hsa-miR-20a HIF1A	-0.1545565	0.2889837	0.127
hsa-miR-20a IL8	0.1787051	0.1543581	0.093
hsa-miR-20a JAK1	-0.2226467	0.07464243	0.085
hsa-miR-20a MEF2D	-0.37748	0.007498267	0.01
hsa-miR-20a PTEN	0.03050368	0.8093902	0.174
hsa-miR-20a TGFB2	-0.204408	0.1024039	0.083
hsa-miR-20b CDKN1A	-0.8066458	2.61869e-12	0.001
hsa-miR-20b HIF1A	-0.372737	0.008349502	0.082
hsa-miR-20b HIPK3	-0.0698035	0.580586	0.276
hsa-miR-20b MYLIP	0.02269228	0.8576046	0.42
hsa-miR-20b STAT3	-0.3678682	0.009309058	0.077
hsa-miR-210 ACVR1B	0.4543772	3.592415e-11	0.001
hsa-miR-210 ATP11C	0.04683139	0.5189068	0.09
hsa-miR-210 BDNF	0.1561419	0.2142124	0.101
hsa-miR-210 CBX1	0.3208663	5.690327e-06	0.001
hsa-miR-210 CDK10	-0.06216177	0.3916975	0.023
hsa-miR-210 CHD9	0.09300243	0.3784968	0.01
hsa-miR-210 CLASP2	0.2290825	0.01743747	0.032
hsa-miR-210 CPEB2	0.005564651	0.9389392	0.028
hsa-miR-210 DDAH1	0.2250876	0.001695726	0.076
hsa-miR-210 E2F3	0.3365777	1.812229e-06	0.004
hsa-miR-210 EFNA3	0.2238969	0.07298463	0.122
hsa-miR-210 ELK3	-0.3787278	6.071684e-08	0.026
hsa-miR-210 FAM116A	0.1454856	0.04406523	0.001
hsa-miR-210 GPD1L	0.04980392	0.6935916	0.124
hsa-miR-210 HECTD1	-0.2370839	0.0009295891	0.034
hsa-miR-210 HOXA1	-0.05572147	0.6593094	0.303
hsa-miR-210 HOXA3	0.05179412	0.4755531	0.017
hsa-miR-210 HOXA9	0.1141944	0.3650583	0.067
hsa-miR-210 ISCU	-0.1881718	0.008955458	0.001
hsa-miR-210 KIAA1161	0.08840526	0.2227042	0.187
hsa-miR-210 MDGA1	0.02325458	0.7488439	0.121
hsa-miR-210 MIB1	0.207912	0.003806205	0.019
hsa-miR-210 MID1IP1	0.1869553	0.009416601	0.116
hsa-miR-210 MNT	0.009570077	0.8951868	0.067
hsa-miR-210 NCAM1	-0.2335169	0.001115054	0.008
hsa-miR-210 NIPBL	-0.2272077	0.006737404	0.021
hsa-miR-210 NPTX1	-0.04304536	0.733505	0.135
hsa-miR-210 P4HB	0.414028	2.379308e-09	0.054
hsa-miR-210 PIM1	-0.09432053	0.2938245	0.063
hsa-miR-210 PTAR1	0.09855822	0.1738114	0.142
hsa-miR-210 PTPN1	0.04354292	0.5487108	0.02
hsa-miR-210 RAD52	-0.01562517	0.829683	0.088

Table S2.Results obtained for the test on experimentally validated targets

hsa-miR-210 SEH1L	0.1018435	0.1598347	0.085
hsa-miR-210 SERTAD2	0.207306	0.003912047	0.045
hsa-miR-210 SMCHD1	-0.4601079	0.0001151765	0.025
hsa-miR-210 TNPO1	0.2235827	0.001824646	0.004
hsa-miR-210 UBQLN1	0.1502034	0.0375713	0.038
hsa-miR-210 XIST	-0.05875784	0.5594468	0.053
hsa-miR-214 EZH2	-0.5143276	2.334448e-14	0.001
hsa-miR-214 PTEN	0.363742	2.148661e-07	0.08
hsa-miR-215 CDKN1A	-0.02536348	0.7269332	0.025
hsa-miR-215 DHFR	0.1745262	0.01547255	0.323
hsa-miR-215 DTL	-0.1612789	0.02543025	0.017
hsa-miR-217 IRS1	0.06582976	0.3643052	0.209
hsa-miR-217 NR4A2	-0.08553076	0.2381702	0.092
hsa-miR-217 PTEN	-0.1558276	0.03090354	0.012
hsa-miR-217 ROBO1	-0.0974758	0.4255552	0.028
hsa-miR-217 SIRT1	-0.251029	0.08189079	0.278
hsa-miR-218 COL1A1	0.4989299	1.767475e-13	0.022
hsa-miR-218 EBP	-0.2248502	0.01003739	0.025
hsa-miR-218 EFNA1	0.2482575	0.01219976	0.058
hsa-miR-218 LAMB3	-0.3460493	0.01368899	0.056
hsa-miR-218 LASP1	0.3701105	0.008855925	0.193
hsa-miR-218 MAFG	-0.01213756	0.9340324	0.363
hsa-miR-218 MBNL2	0.357065	3.697181e-07	0.001
hsa-miR-218 MRPS27	-0.3031663	0.0003875869	0.079
hsa-miR-218 NFE2L1	-0.1897292	0.008394367	0.041
hsa-miR-218 NUP93	-0.1926007	0.007441062	0.079
hsa-miR-218 SP1	-0.3542801	0.01250612	0.084
hsa-miR-219 CAMK2G	0.4222622	0.002508883	0.295
hsa-miR-21 ACTA2	0.1368721	0.05834583	0.069
hsa-miR-21 APAF1	0.2871315	0.04545975	0.886
hsa-miR-21 BASP1	0.2804058	0.02367046	0.009
hsa-miR-21 BCL2	0.1540598	0.2204621	0.188
hsa-miR-21 BMPR2	-0.1891674	0.04191554	0.036
hsa-miR-21 BTG2	0.1345358	0.3567173	0.157
hsa-miR-21 CDC25A	0.1728786	0.1684685	0.376
hsa-miR-21 CDK6	0.07925694	0.274497	0.063
hsa-miR-21 CDKN1A	-0.140864	0.3343355	0.122
hsa-miR-21 CFL2	-0.4004545	8.648986e-09	0.001
hsa-miR-21 DAXX	0.3308238	2.77592e-06	0.09
hsa-miR-21 DERL1	0.1372157	0.05771081	0.029
hsa-miR-21 E2F2	-0.08043069	0.5827503	0.309
hsa-miR-21 FAM3C	-0.156738	0.02992512	0.118
hsa-miR-21 FAS	-0.3988874	0.0009972922	0.004
hsa-miR-21 FMOD	0.1557831	0.1576351	0.01
hsa-miR-21 GLCC1	0.03775951	0.6030775	0.044
hsa-miR-21 HIPK3	-0.3401621	0.005563445	0.075
hsa-miR-21 HNRNPK	0.1817436	0.2113719	0.531
hsa-miR-21 HNRPK	-0.1552335	0.03155657	0.05
hsa-miR-21 IL6R	-0.04389285	0.5454999	0.039
hsa-miR-21 JAG1	0.3342452	2.156433e-06	0.046
hsa-miR-21 LRRFIP1	-0.2726171	0.0001304844	0.028
hsa-miR-21 MARCKS	0.2856323	5.919934e-05	0.078
hsa-miR-21 MTAP	-0.1412032	0.2618793	0.273

Table S2. Results obtained for the test on experimentally validated targets

hsa-miR-21 MYC	-0.1863468	0.1372056	0.043
hsa-miR-21 NCAPG	0.3766006	7.293208e-08	0.119
hsa-miR-21 NFIB	-0.1998023	0.05854097	0.03
hsa-miR-21 PDCD4	0.1837764	0.2062217	0.036
hsa-miR-21 PLOD3	0.3177079	7.107684e-06	0.013
hsa-miR-21 PIIF	-0.2861295	5.73938e-05	0.003
hsa-miR-21 PTEN	-0.2338963	0.001093825	0.027
hsa-miR-21 RASA1	0.02848026	0.8459766	0.285
hsa-miR-21 RASGRP1	-0.3156621	0.01042446	0.158
hsa-miR-21 RECK	-0.1484446	0.039891	0.134
hsa-miR-21 REST	-0.2323615	0.02179049	0.056
hsa-miR-21 RHOB	-0.2792877	8.745146e-05	0.002
hsa-miR-21 RPS7	0.3207146	5.751791e-06	0.089
hsa-miR-21 RTN4	-0.1773472	0.01385939	0.006
hsa-miR-21 SESN1	0.1944074	0.1207108	0.104
hsa-miR-21 SGK3	0.2587325	0.07264158	0.063
hsa-miR-21 SLC16A10	-0.2024913	0.004851685	0.001
hsa-miR-21 SOCS5	0.04875366	0.699743	0.252
hsa-miR-21 SPRY1	-0.1318743	0.2135632	0.051
hsa-miR-21 SPRY2	-0.338703	1.544753e-06	0.007
hsa-miR-21 TGFB1	0.1625088	0.1958788	0.357
hsa-miR-21 TGFB1	0.1984184	0.1130892	0.254
hsa-miR-21 TGFB2	-0.1648252	0.02233516	0.008
hsa-miR-21 TGFB3	-0.304839	1.714445e-05	0.001
hsa-miR-21 TIMP3	-0.2639213	0.06689251	0.14
hsa-miR-21 TM9SF3	0.2604504	0.07069635	0.192
hsa-miR-21 TOPORS	-0.3280966	3.387516e-06	0.001
hsa-miR-21 TP53BP2	0.2316541	0.001224868	0.199
hsa-miR-21 TPM1	0.286699	5.538911e-05	0.028
hsa-miR-21 WFS1	0.2186082	0.002316951	0.067
hsa-miR-21 WIBG	-0.0911089	0.4169376	0.029
hsa-miR-221 ARIH2	-0.477028	2.6355e-06	0.001
hsa-miR-221 BNIP3L	0.3310785	4.544524e-06	0.001
hsa-miR-221 BRAP	0.2356066	0.05884413	0.302
hsa-miR-221 CDKN1B	-0.3271335	9.300527e-05	0.056
hsa-miR-221 CDKN1C	0.6062254	5.805859e-07	0.176
hsa-miR-221 CREBZF	0.246544	0.0005662748	0.018
hsa-miR-221 DDIT4	-0.3254409	0.02250214	0.117
hsa-miR-221 DKK2	-0.1155748	0.3592521	0.13
hsa-miR-221 FOS	-0.3792853	5.785622e-08	0.001
hsa-miR-221 FOXO3	0.3281346	3.378181e-06	0.105
hsa-miR-221 HMG2L1	0.4136693	2.463694e-09	0.003
hsa-miR-221 HOXB5	-0.3368548	0.006073228	0.023
hsa-miR-221 ICAM1	-0.1662119	0.02121639	0.023
hsa-miR-221 KIT	-0.3499982	0.01369114	0.094
hsa-miR-221 MYBL1	0.2315446	0.001231623	0.151
hsa-miR-221 TBK1	0.4400895	0.001554642	0.099
hsa-miR-221 USP18	-0.1361094	0.1227691	0.308
hsa-miR-222 CDKN1B	-0.2758957	0.0001073239	0.039
hsa-miR-222 CDKN1C	0.5946838	1.0725e-06	0.238
hsa-miR-222 FOS	-0.4083731	4.102206e-09	0.001
hsa-miR-222 FOXO3	0.3051513	1.679014e-05	0.072
hsa-miR-222 KIT	0.03002086	0.8123519	0.189

Table S2. Results obtained for the test on experimentally validated targets

hsa-miR-222 PPP2R2A	-0.4260093	7.252525e-10	0.001
hsa-miR-222 SOD2	0.08195289	0.5064705	0.113
hsa-miR-222 STAT5A	0.2857615	0.03117682	0.258
hsa-miR-223 E2F1	0.1266372	0.2069725	0.27
hsa-miR-223 IRS1	-0.3365583	1.814863e-06	0.009
hsa-miR-223 LMO2	0.2881788	5.0484e-05	0.06
hsa-miR-223 MEF2C	0.1842486	0.01051877	0.026
hsa-miR-223 NFIA	-0.04541626	0.6520045	0.001
hsa-miR-223 RHOB	0.2539878	0.0003781945	0.037
hsa-miR-223 STMN1	0.1434296	0.152454	0.266
hsa-miR-224 AP2M1	0.5816416	1.170653e-05	0.195
hsa-miR-224 API5	-0.5464392	4.869162e-05	0.018
hsa-miR-224 ATF2	0.298084	0.0009052375	0.001
hsa-miR-224 CD40	0.1674433	0.04758399	0.15
hsa-miR-224 CDC42	0.3085788	0.01238682	0.012
hsa-miR-224 CXCR4	-0.522938	0.0001157716	0.015
hsa-miR-224 FOSB	-0.2446156	0.004411841	0.005
hsa-miR-224 JAG1	-0.2354819	0.05898208	0.039
hsa-miR-224 KLK10	0.03189528	0.7515211	0.161
hsa-miR-224 NCOA6	-0.2524354	0.003188189	0.004
hsa-miR-224 NIT1	-0.08822947	0.5139917	0.006
hsa-miR-224 PDGFRB	0.6218863	1.846601e-06	0.052
hsa-miR-22 BMP7	0.09040808	0.4738561	0.085
hsa-miR-22 PTEN	0.07367746	0.5597084	0.066
hsa-miR-23a CXCL12	0.1733062	0.1674018	0.019
hsa-miR-23a HES1	-0.4021107	0.000898996	0.008
hsa-miR-23a POU4F2	-0.1093483	0.3858911	0.344
hsa-miR-23a RING1	0.4406884	0.001529155	0.422
hsa-miR-23b MET	0.2683599	0.03066268	0.158
hsa-miR-23b NOTCH1	0.1730998	0.2342736	0.066
hsa-miR-23b RB1	0.5665941	2.196332e-05	0.409
hsa-miR-24 AURKB	-0.5457465	4.99971e-05	0.027
hsa-miR-24 BRCA1	0.01412869	0.9110577	0.033
hsa-miR-24 CCNA2	-0.5293296	9.20532e-05	0.032
hsa-miR-24 CDK4	-0.3929704	0.005220292	0.007
hsa-miR-24 DHFR	-0.5051218	0.0002142383	0.026
hsa-miR-24 E2F2	-0.2708819	0.05975613	0.075
hsa-miR-24 FEN1	-0.5236741	0.0001127812	0.023
hsa-miR-24 MAPK14	-0.385981	0.001495639	0.067
hsa-miR-24 MYC	-0.3382969	0.005846101	0.031
hsa-miR-24 NOTCH1	-0.2256538	0.07070485	0.028
hsa-miR-24 TRIB3	0.2357767	0.1029082	0.174
hsa-miR-25 BCL2L11	0.2074431	0.003887868	0.059
hsa-miR-25 KLF4	-0.3969388	1.196998e-08	0.001
hsa-miR-25 PCAF	-0.3108972	1.138475e-05	0.002
hsa-miR-26a CCND2	0.4771781	0.0005268406	0.001
hsa-miR-26a CCNE2	-0.1035227	0.4118513	0.041
hsa-miR-26a CDC6	-0.2295165	0.06589276	0.119
hsa-miR-26a EZH2	0.294313	0.01732411	0.33
hsa-miR-26a HMGA1	-0.4644113	0.0007752352	0.067
hsa-miR-26a HMGA2	-0.4378026	0.001655467	0.025
hsa-miR-26a LIF	-0.4705751	0.0006445455	0.071
hsa-miR-26a PLAG1	0.04811524	0.7034918	0.094

Table S2. Results obtained for the test on experimentally validated targets

hsa-miR-26a PTEN	-0.4299159	0.0003513986	0.05
hsa-miR-26a RB1	0.4918679	0.0003314499	0.415
hsa-miR-26a SERBP1	-0.438876	0.001607441	0.02
hsa-miR-26a SMAD1	0.6046653	4.19784e-06	0.148
hsa-miR-26a TGFB2	-0.1384868	0.2712607	0.028
hsa-miR-26b SERBP1	-0.2202225	0.07794238	0.016
hsa-miR-27a FOXO1	-0.04257679	0.7714526	0.2
hsa-miR-27a GCA	-0.3188393	0.0255562	0.162
hsa-miR-27a MYT1	0.2688642	0.03033858	0.139
hsa-miR-27a PHB	-0.1827471	0.2088183	0.293
hsa-miR-27a RUNX1	0.4646662	0.0007693913	0.005
hsa-miR-27a SP1	-0.3097087	0.03034556	0.042
hsa-miR-27a SP3	0.004030917	0.9780704	0.319
hsa-miR-27a ZBTB10	0.1149183	0.3620062	0.021
hsa-miR-27b CYP1B1	-0.0411866	0.7787236	0.177
hsa-miR-27b NOTCH1	-0.2901897	0.01903265	0.042
hsa-miR-27b PPARG	-0.2047431	0.1581848	0.06
hsa-miR-296 HGS	-0.08402946	0.5659419	0.172
hsa-miR-299-5p CDKN1A	0.2843713	0.0003330722	0.025
hsa-miR-29a BACE1	0.005688144	0.9690583	0.033
hsa-miR-29a BCL2	0.2163019	0.08352374	0.143
hsa-miR-29a CDC42	0.3204151	0.02479735	0.091
hsa-miR-29a COL3A1	-0.1607375	0.2008626	0.084
hsa-miR-29a COL4A1	-0.1837902	0.1427765	0.088
hsa-miR-29a COL4A2	-0.1606311	0.2011647	0.125
hsa-miR-29a DKK1	0.5957952	6.290765e-06	0.077
hsa-miR-29a DNMT3B	-0.4204661	0.002629116	0.147
hsa-miR-29a MCL1	-0.4345014	0.0002986047	0.009
hsa-miR-29a PIK3R1	0.1554438	0.2162938	0.013
hsa-miR-29a RAN	-0.2627641	0.0681421	0.259
hsa-miR-29a SFRP2	-0.4564873	0.0009779933	0.252
hsa-miR-29a SPARC	0.1707133	0.2408854	0.092
hsa-miR-29b ACVR2A	-0.1977239	0.005976908	0.051
hsa-miR-29b BACE1	-0.3227347	0.0003600074	0.022
hsa-miR-29b BCL2	0.1181263	0.1027139	0.036
hsa-miR-29b CDC42	0.3521618	0.01308091	0.037
hsa-miR-29b CDK6	0.04144637	0.56814	0.106
hsa-miR-29b COL1A1	0.328664	0.02112631	0.06
hsa-miR-29b COL3A1	-0.1587659	0.2758893	0.092
hsa-miR-29b COL4A2	-0.2916658	0.04201195	0.119
hsa-miR-29b COL5A3	-0.5485122	4.49689e-05	0.015
hsa-miR-29b CTNBP1	-0.2875649	0.04512049	0.037
hsa-miR-29b DNAJB11	0.4028661	0.004105006	0.315
hsa-miR-29b DNMT1	-0.1220345	0.09175237	0.022
hsa-miR-29b DNMT3A	-0.194369	0.006903106	0.03
hsa-miR-29b DNMT3B	-0.26065	0.03598912	0.1
hsa-miR-29b HDAC4	-0.290535	0.04285107	0.087
hsa-miR-29b MCL1	-0.3099762	0.01197618	0.001
hsa-miR-29b PIK3R1	0.2330692	0.002147469	0.035
hsa-miR-29b SFPQ	0.2230813	0.1233789	0.152
hsa-miR-29b SP1	-0.249811	0.0834342	0.055
hsa-miR-29b TGFB3	-0.5495958	4.312872e-05	0.054
hsa-miR-29c BCL2	0.2114353	0.03379514	0.146

Table S2.Results obtained for the test on experimentally validated targets

hsa-miR-29c CDC42	0.4322345	0.001925694	0.011
hsa-miR-29c COL15A1	-0.4295183	0.002071208	0.038
hsa-miR-29c COL1A1	-0.152656	0.2247469	0.066
hsa-miR-29c COL1A2	-0.1927993	0.1781917	0.088
hsa-miR-29c COL3A1	-0.3701212	0.008853811	0.022
hsa-miR-29c COL4A1	-0.3728387	0.008330404	0.03
hsa-miR-29c COL4A2	-0.3532737	0.01277645	0.01
hsa-miR-29c DNMT3B	-0.3528007	0.01290521	0.043
hsa-miR-29c FBN1	-0.1853234	0.1394157	0.077
hsa-miR-29c LAMC1	-0.2767546	0.02563082	0.027
hsa-miR-29c MCL1	-0.3619706	0.003048026	0.014
hsa-miR-29c PIK3R1	0.2008376	0.1664455	0.084
hsa-miR-29c SPARC	0.2375257	0.1003062	0.086
hsa-miR-29c TDG	-0.1720822	0.2370772	0.075
hsa-miR-302a CCND1	-0.2672673	0.0374732	0.018
hsa-miR-302a CDK4	0.1658783	0.2546676	0.072
hsa-miR-302a LEFTY1	0.8063267	2.712053e-12	0.012
hsa-miR-302a LEFTY2	0.7759577	5.787415e-11	0.005
hsa-miR-302b CCND2	-0.1746214	0.01541552	0.015
hsa-miR-302d KLF13	-0.5574549	3.17145e-05	0.002
hsa-miR-302d MBNL2	-0.3941983	0.0003725192	0.001
hsa-miR-302d NR4A2	-0.09801668	0.1761996	0.313
hsa-miR-30a* CYR61	-0.03725584	0.7114685	0.258
hsa-miR-30a KRT7	0.05347925	0.5953146	0.332
hsa-miR-30a* THBS1	0.01154148	0.9088015	0.333
hsa-miR-30d GNAI2	0.1967845	0.1753457	0.281
hsa-miR-31 LATS2	-0.09658818	0.1826159	0.199
hsa-miR-31 PPP2R2A	0.3324205	0.01961299	0.11
hsa-miR-31 RHOA	0.3114412	0.0004426419	0.067
hsa-miR-320 BCL2	0.4230684	0.0004462083	0.011
hsa-miR-320 MCL1	-0.3117714	0.01146599	0.026
hsa-miR-324-5p SMO	0.2892536	4.718068e-05	0.006
hsa-miR-326 NOTCH1	-0.3264654	0.02205686	0.032
hsa-miR-326 NOTCH2	0.02594718	0.7209068	0.04
hsa-miR-326 SMO	-0.1135905	0.1167037	0.083
hsa-miR-328 ABCG2	0.1483411	0.04003122	0.733
hsa-miR-328 BACE1	0.7317312	2.330946e-09	0.355
hsa-miR-328 CD44	0.335545	0.01842503	0.096
hsa-miR-335 ARPC5L	-0.1421769	0.3298044	0.072
hsa-miR-335 MERTK	0.1756426	0.01481549	0.061
hsa-miR-335 PTPRN2	0.4117967	0.003284025	0.16
hsa-miR-335 RASA1	-0.1440771	0.3233145	0.017
hsa-miR-335 RB1	0.4165065	0.002912338	0.009
hsa-miR-335 SOX4	0.4754582	0.000555468	0.05
hsa-miR-33b BCL2	0.1669995	0.09508217	0.175
hsa-miR-345 CDKN1A	-0.09253317	0.2017629	0.038
hsa-miR-346 EFEMP2	-0.1454556	0.3186574	0.093
hsa-miR-346 IL18	-0.05377889	0.7136192	0.237
hsa-miR-346 LIF	-0.1105039	0.4497224	0.43
hsa-miR-34a BCL2	-0.09934163	0.170399	0.012
hsa-miR-34a BIRC3	0.2389185	0.0008456621	0.091
hsa-miR-34a CCND1	0.6945342	3.105519e-08	0.109
hsa-miR-34a CCND3	0.6483929	4.715584e-07	0.135

Table S2.Results obtained for the test on experimentally validated targets

hsa-miR-34a CCNE2	-0.1856168	0.1387795	0.173
hsa-miR-34a CDC25A	-0.02475439	0.8448185	0.131
hsa-miR-34a CDC25C	-0.1624155	0.1961389	0.188
hsa-miR-34a CDK4	-0.6022348	4.695562e-06	0.001
hsa-miR-34a CDK6	0.3167885	7.579533e-06	0.021
hsa-miR-34a DLL1	-0.3648483	0.009950864	0.061
hsa-miR-34a E2F3	-0.7614087	2.129842e-10	0.012
hsa-miR-34a E2F5	-0.6993629	2.268693e-08	0.001
hsa-miR-34a HMGA2	-0.1651462	0.1886227	0.088
hsa-miR-34a HNF4A	-0.02267606	0.7548908	0.016
hsa-miR-34a JAG1	-0.1805851	0.1499978	0.163
hsa-miR-34a MET	0.07408595	0.3071285	0.065
hsa-miR-34a MYC	0.4455287	0.001336474	0.065
hsa-miR-34a MYCN	-0.6220314	1.833482e-06	0.002
hsa-miR-34a NOTCH1	-0.5051819	0.0002138054	0.037
hsa-miR-34a NOTCH2	-0.1589942	0.2058551	0.054
hsa-miR-34a SIRT1	-0.4439793	0.001395651	0.01
hsa-miR-34a VAMP2	-0.1315116	0.06902067	0.002
hsa-miR-34b BCL2	-0.2735451	0.0001234946	0.015
hsa-miR-34b HMGA2	0.1862702	0.200025	0.048
hsa-miR-34b MYC	-0.2695259	0.0001565296	0.004
hsa-miR-34b NOTCH1	-0.3490926	0.01395371	0.129
hsa-miR-34b NOTCH2	0.08845895	0.2224222	0.152
hsa-miR-34c BCL2	0.1549267	0.03189845	0.271
hsa-miR-34c E2F3	0.4772287	2.588596e-12	0.094
hsa-miR-34c HMGA2	0.2622848	0.0686651	0.086
hsa-miR-34c MET	-0.08193922	0.2585309	0.114
hsa-miR-34c MYC	0.2700193	0.06060578	0.011
hsa-miR-34c NOTCH1	-0.2765163	0.0544384	0.13
hsa-miR-34c NOTCH2	0.08995691	0.2146584	0.194
hsa-miR-34c NOTCH3	0.468383	7.333467e-12	0.018
hsa-miR-363 CDKN1A	-0.764649	1.606299e-10	0.012
hsa-miR-370 HMGA2	-0.2912589	0.04231234	0.059
hsa-miR-370 MAP3K8	-0.0714455	0.5716936	0.414
hsa-miR-372 CDKN1A	-0.5670822	2.152992e-05	0.027
hsa-miR-372 KLF13	-0.3697105	0.008935324	0.061
hsa-miR-372 MBNL2	-0.2620029	0.06897421	0.14
hsa-miR-372 RECK	-0.04784716	0.7440681	0.346
hsa-miR-372 WEE1	0.6088781	3.449189e-06	0.133
hsa-miR-373 ADAM9	-0.5565265	3.290064e-05	0.01
hsa-miR-373 ARHGEF3	-0.3263938	0.02208773	0.012
hsa-miR-373 BAZ1A	-0.4526891	0.001091067	0.017
hsa-miR-373 CD44	-0.5710039	1.832321e-05	0.008
hsa-miR-373 CD83	0.3208197	0.01496726	0.015
hsa-miR-373 CENPF	0.3378385	0.01759232	0.061
hsa-miR-373 CFL2	-0.5099098	0.0001821826	0.023
hsa-miR-373 FYCO1	-0.5563075	3.318633e-05	0.007
hsa-miR-373 GBAS	-0.4986044	0.0002661066	0.013
hsa-miR-373 GBP3	-0.351264	0.01333124	0.025
hsa-miR-373 GLTP	-0.2783792	0.05276674	0.038
hsa-miR-373 GPSM2	-0.3034564	0.03403792	0.136
hsa-miR-373 HERPUD1	-0.4519879	0.001113178	0.024
hsa-miR-373 HSPA14	0.8493778	1.221245e-14	0.008

Table S2.Results obtained for the test on experimentally validated targets

hsa-miR-373 INSIG2	-0.5537462	3.670108e-05	0.011
hsa-miR-373 KIF23	0.7082419	1.252947e-08	0.019
hsa-miR-373 KLHL12	0.08329419	0.5693577	0.142
hsa-miR-373 LMNB1	0.4093287	0.00349501	0.022
hsa-miR-373 LUC7L2	-0.2213286	0.0980129	0.03
hsa-miR-373 MICA	-0.3163603	0.02678923	0.025
hsa-miR-373 MKRN1	0.1716636	0.206964	0.058
hsa-miR-373 NIN	-0.6365416	8.821398e-07	0.018
hsa-miR-373 NUPL1	0.2845671	0.03192011	0.016
hsa-miR-373 PHC2	-0.5923192	7.347342e-06	0.003
hsa-miR-373 PRC1	-0.1085937	0.4576436	0.135
hsa-miR-373 RAD23B	0.1914115	0.1537716	0.053
hsa-miR-373 RECK	0.3878623	0.0028724	0.101
hsa-miR-373 RELA	-0.6696358	1.430124e-07	0.002
hsa-miR-373 RNF149	-0.296434	0.03862031	0.103
hsa-miR-373 RPIA	-0.2486734	0.06214394	0.092
hsa-miR-373 STK4	-0.2805841	0.05084202	0.13
hsa-miR-373 TMEM14A	-0.3758691	0.007778522	0.024
hsa-miR-373 TNFAIP1	-0.6586611	2.680286e-07	0.03
hsa-miR-373 TTC8	-0.5520491	3.921491e-05	0.015
hsa-miR-373 TUSC2	-0.1112197	0.4101399	0.023
hsa-miR-373 USP12	0.1177748	0.3829232	0.074
hsa-miR-373 ZHX1	-0.735595	1.738153e-09	0.004
hsa-miR-373 ZNF226	-0.5066572	0.0002034403	0.005
hsa-miR-375 ADIPOR2	0.1492445	0.03882152	0.005
hsa-miR-375 AHR	0.3526464	0.008492691	0.001
hsa-miR-375 C1QBP	0.7467787	7.218683e-10	0.046
hsa-miR-375 INSM1	-0.1471285	0.313063	0.237
hsa-miR-375 MTPN	-0.2735746	0.0001232778	0.042
hsa-miR-375 MXI1	-0.3574628	0.0002895206	0.175
hsa-miR-375 PDK1	-0.3767964	7.171526e-08	0.016
hsa-miR-375 TIMM8A	-0.2276922	0.00149208	0.024
hsa-miR-375 USP1	-0.4230425	9.775618e-10	0.006
hsa-miR-375 YWHAZ	0.3467654	0.006128643	0.011
hsa-miR-376a* PRPS1	0.2194553	0.07901059	0.249
hsa-miR-376a* SLC16A1	-0.06988816	0.580126	0.194
hsa-miR-376a* SNX19	0.1235271	0.3977687	0.286
hsa-miR-376a* TTK	-0.2733567	0.02757653	0.035
hsa-miR-377 PAK1	-0.0980312	0.502781	0.073
hsa-miR-377 SOD1	0.1484146	0.3088048	0.318
hsa-miR-377 SOD2	0.2994086	0.03662093	0.097
hsa-miR-424 ANLN	-0.5776743	1.754141e-18	0.001
hsa-miR-424 ATF6	0.2182288	0.08172536	0.017
hsa-miR-424 CCND1	-0.4185318	0.002764278	0.025
hsa-miR-424 CCND3	-0.3393005	0.01707834	0.064
hsa-miR-424 CCNE1	-0.3714042	1.135029e-07	0.005
hsa-miR-424 CCNF	0.3887736	0.005768082	0.082
hsa-miR-424 CDC25A	0.09860838	0.4345156	0.159
hsa-miR-424 CDK6	-0.1901501	0.008248175	0.014
hsa-miR-424 CHEK1	0.3167971	0.02656847	0.181
hsa-miR-424 FGFR1	-0.05860338	0.6428578	0.244
hsa-miR-424 ITPR1	-0.529214	8.25478e-08	0.03
hsa-miR-424 KIF23	0.466014	0.0007391446	0.132

Table S2. Results obtained for the test on experimentally validated targets

hsa-miR-424 MAP2K1	0.4911719	4.711787e-13	0.115
hsa-miR-424 NFIA	0.3298461	2.981962e-06	0.019
hsa-miR-424 PIAS1	-0.2819862	7.41642e-05	0.004
hsa-miR-424 PLAG1	-0.08404762	0.5056381	0.269
hsa-miR-424 WEE1	0.07528708	0.5511396	0.093
hsa-miR-429 ERBB2IP	0.2310334	0.06407663	0.235
hsa-miR-429 KLHL20	-0.1821107	0.1465274	0.06
hsa-miR-429 PTPRD	-0.3587767	0.003337518	0.001
hsa-miR-429 RERE	0.2133191	0.08797777	0.564
hsa-miR-429 ZEB1	-0.3305143	0.007166393	0.009
hsa-miR-429 ZEB2	0.03756734	0.7663858	0.245
hsa-miR-433 GRB2	0.07722375	0.5979158	0.059
hsa-miR-449a WISP2	-0.04650151	0.6442482	0.268
hsa-miR-451 CAB39	-0.02430098	0.7379458	0.037
hsa-miR-451 MIF	-0.1470045	0.04187896	0.038
hsa-miR-485-3p NTRK3	-0.08146478	0.5188495	0.109
hsa-miR-486 FOXO1	-0.2491617	0.0842663	0.118
hsa-miR-491 TAF10	0.2260942	0.1182629	0.093
hsa-miR-494 PTEN	0.1169182	0.3536559	0.06
hsa-miR-503 ANLN	0.454511	0.001035447	0.082
hsa-miR-503 ATF6	0.2494466	0.08390038	0.111
hsa-miR-503 CCND1	-0.09742772	0.4659883	0.078
hsa-miR-503 CCNE1	-0.06379429	0.63554	0.058
hsa-miR-503 CCNE2	-0.1313445	0.2969886	0.168
hsa-miR-503 CCNF	0.2931199	0.01780444	0.076
hsa-miR-503 CDC25A	0.2178256	0.08131817	0.022
hsa-miR-503 CDKN1A	0.1091622	0.4552781	0.048
hsa-miR-503 CHEK1	0.2388407	0.05535702	0.179
hsa-miR-503 EIF2C1	0.1013131	0.4885172	0.207
hsa-miR-503 WEE1	-0.197922	0.1728141	0.19
hsa-miR-512-5p MCL1	-0.09116643	0.533291	0.093
hsa-miR-516a-5p KLK10	0.0968207	0.3354523	0.079
hsa-miR-519d CDKN1A	-0.7749736	6.339812e-11	0.017
hsa-miR-520h CDKN1A	-0.7829142	2.998039e-11	0.012
hsa-miR-520h SMAD6	-0.04062731	0.7816542	0.341
hsa-miR-559 MTA1	-0.1434681	0.3253855	0.007
hsa-miR-7 EGFR	-0.001571122	0.9900897	0.001
hsa-miR-7 IRS1	-0.4301619	0.0003483637	0.131
hsa-miR-7 IRS2	-0.4690742	8.101943e-05	0.022
hsa-miR-7 PAK1	0.3237832	0.02323855	0.088
hsa-miR-7 RAF1	0.03751578	0.7980117	0.027
hsa-miR-7 SNCA	0.2952452	0.03944405	0.071
hsa-miR-92b CDKN1C	0.3429291	0.005166281	0.181
hsa-miR-93 CDKN1A	-0.6951722	2.980356e-08	0.004
hsa-miR-93 MAPK9	0.3685167	1.446439e-07	0.01
hsa-miR-93 PCAF	-0.2742624	0.0001183331	0.001
hsa-miR-93 TP53INP1	-0.1667968	0.1881501	0.065
hsa-miR-96 ADCY6	0.4393938	1.818479e-10	0.018
hsa-miR-96 AQP5	0.002899795	0.9770401	0.151
hsa-miR-96 CDKN1A	-0.6627125	2.131955e-07	0.008
hsa-miR-96 CELSR2	0.2840491	0.0479327	0.072
hsa-miR-96 FOXO1	0.458442	5.707158e-11	0.001
hsa-miR-96 IRS1	-0.1065605	0.1412652	0.035

Table S2.Results obtained for the test on experimentally validated targets

hsa-miR-96 MITF	0.1383353	0.055681	0.208
hsa-miR-96 MYRIP	-0.1403145	0.05223732	0.008
hsa-miR-96 ODF2	-0.587397	9.125955e-06	0.003
hsa-miR-96 RYK	0.05376723	0.7136786	0.011
hsa-miR-98 E2F2	0.4671765	0.0007139184	0.027
hsa-miR-98 HMGA2	-0.4918842	0.0003312756	0.121
hsa-miR-98 MYC	-0.3619929	0.01059243	0.051
hsa-miR-99a FGFR3	-0.2318209	0.001214646	0.009
hsa-miR-99a IGF1R	0.1108882	0.3791958	0.13
hsa-miR-9 BACE1	-0.24934	0.0004872965	0.016
hsa-miR-9 BCL6	-0.09479417	0.3480055	0.06
hsa-miR-9 CDH1	0.1534705	0.1517663	0.022
hsa-miR-9 ETS1	-0.2442359	0.000640206	0.009
hsa-miR-9 FOXO1	-0.3192012	6.400257e-06	0.056
hsa-miR-9 MMP13	0.08214996	0.4140987	0.147
hsa-miR-9 NFKB1	-0.4746489	0.0005694184	0.004
hsa-miR-9 ONECUT2	0.2036257	0.004613694	0.001
hsa-miR-9 POU2F2	-0.4176189	0.002830167	0.013
hsa-miR-9 PRDM1	-0.06254635	0.3887687	0.115
hsa-miR-9 RAB34	-0.6513947	4.006499e-07	0.001
hsa-miR-9* RCOR1	-0.1142264	0.1297812	0.024
hsa-miR-9 REST	-0.135335	0.06125764	0.104