

Supplementary

Supplementary Table 1

ID	miRNA_ID	adj.P.Val	P.Value	logFC
366	mmu-let-7f	4.36E-10	1.68E-10	-13.3422
230	mmu-miR-434-3p	4.66E-10	1.81E-10	1.2196
16	mmu-miR-15a	9.77E-10	3.82E-10	-12.8306
46	mmu-miR-93	6.55E-09	2.58E-09	-3.9718
27	mmu-miR-21	7.21E-09	2.85E-09	-6.6173
340	mmu-miR-467b	1.09E-08	4.33E-09	-10.571
140	mmu-miR-223	1.93E-08	7.73E-09	-7.6459
176	mmu-miR-339-3p	2.11E-08	8.50E-09	-8.6719
86	mmu-miR-146b	2.43E-08	9.86E-09	-5.0458
112	mmu-miR-199a-3p	3.31E-08	1.35E-08	-3.1938
23	mmu-miR-19b	3.51E-08	1.44E-08	-3.9323
79	mmu-miR-140	3.97E-08	1.64E-08	-2.9537
116	mmu-miR-200c	4.22E-08	1.76E-08	-9.4549
298	mmu-miR-674	4.53E-08	0.000000019	-12.7408
369	mmu-miR-17	6.12E-08	2.58E-08	-4.2763
329	mmu-miR-143	6.32E-08	2.68E-08	-2.5715
44	mmu-miR-34a	0.000000065	2.78E-08	-12.3789
17	mmu-miR-15b	6.68E-08	2.87E-08	-1.1719
175	mmu-miR-338-3p	6.78E-08	2.93E-08	-8.8525
138	mmu-miR-221	7.21E-08	3.14E-08	-4.9242
72	mmu-miR-135a	0.000000112	4.93E-08	-8.4976
371	mmu-miR-29a	0.000000112	4.92E-08	-2.6978
24	mmu-miR-20a	0.000000121	5.34E-08	-4.7841
139	mmu-miR-222	0.000000121	0.000000054	-1.977
92	mmu-miR-152	0.000000144	6.45E-08	-1.756
6	mmu-let-7i	0.000000292	0.000000131	-4.2464

381	mmu-miR-106a	0.000000323	0.000000146	-4.2838
22	mmu-miR-19a	0.000000376	0.000000172	-4.868
33	mmu-miR-27a	0.000000391	0.000000179	-2.0715
69	mmu-miR-133a	0.000000407	0.000000188	-1.9216
68	mmu-miR-132	0.000000433	0.000000201	-4.4704
129	mmu-miR-214	0.000000487	0.000000227	-1.4068
45	mmu-miR-34c	0.00000054	0.000000253	-8.6426
374	mmu-miR-31	0.000000588	0.000000277	-7.2886
62	mmu-miR-126-5p	0.00000084	0.0000004	-1.9526
277	mmu-miR-542-5p	0.00000107	0.000000515	-5.1321
28	mmu-miR-23b	0.00000115	0.000000552	1.0989
251	mmu-miR-484	0.00000153	0.000000739	-1.453
61	mmu-miR-126-3p	0.00000157	0.000000765	-2.2211
263	mmu-miR-503	0.00000197	0.000000971	-7.4192
368	mmu-miR-155	0.00000208	0.00000103	-2.0159
164	mmu-miR-328	0.00000232	0.00000115	1.7697
268	mmu-miR-511	0.00000293	0.00000147	-9.4245
195	mmu-miR-350	0.00000299	0.0000015	-4.2579
85	mmu-miR-146a	0.00000324	0.00000163	-3.2568
229	mmu-miR-433	0.00000437	0.00000222	4.3707
63	mmu-miR-127	0.00000476	0.00000243	1.9542
18	mmu-miR-16	0.00000486	0.00000249	-1.3606
111	mmu-miR-197	0.00000488	0.00000252	-7.2978
358	mmu-miR-680	0.00000488	0.00000253	-7.2799
52	mmu-miR-101a	0.00000541	0.00000283	-1.0978
13	mmu-miR-9	0.00000594	0.00000313	-8.2497
373	mmu-miR-30e	0.00000611	0.00000323	-1.152
70	mmu-miR-133b	0.0000064	0.00000342	-3.9613
109	mmu-miR-196b	0.0000064	0.0000034	-1.8236

82	mmu-miR-142-5p	0.00000761	0.0000041	-8.695
59	mmu-miR-125a-5p	0.00000787	0.00000427	-1.3393
37	mmu-miR-28	0.0000089	0.00000485	-1.33
104	mmu-miR-192	0.0000094	0.00000514	-1.3145
299	mmu-miR-708	0.0000102	0.00000558	1.2583
367	mmu-miR-106b	0.0000107	0.00000593	-2.5267
155	mmu-miR-301b	0.0000124	0.00000689	-2.2684
154	mmu-miR-301a	0.000015	0.00000838	-2.4393
235	mmu-miR-450a-5p	0.0000157	0.00000882	-8.9439
101	mmu-miR-186	0.0000161	0.00000923	-1.8801
247	mmu-miR-467c	0.0000166	0.00000953	-8.1737
39	mmu-miR-29c	0.0000166	0.00000962	-2.1517
239	mmu-miR-455	0.0000207	0.000012	-1.5215
355	mmu-miR-676	0.0000253	0.0000149	1.3526
350	mmu-miR-667	0.0000253	0.0000148	1.8426
25	mmu-miR-20b	0.0000254	0.000015	-4.8835
375	mmu-miR-34b-3p	0.0000274	0.0000163	-2.6908
167	mmu-miR-331-3p	0.0000302	0.000018	-1.0491
122	mmu-miR-205	0.000034	0.0000205	-7.3589
88	mmu-miR-148a	0.0000403	0.0000244	-1.8729
100	mmu-miR-185	0.0000417	0.0000255	-2.592
254	mmu-miR-489	0.0000417	0.0000255	1.401
66	mmu-miR-130a	0.0000565	0.0000349	-1.0441
5	mmu-let-7g	0.0000574	0.0000356	-1.3596
75	mmu-miR-137	0.0000621	0.0000387	-5.5702
135	mmu-miR-218	0.000074	0.0000463	-2.1143
384	mmu-miR-322	0.0000787	0.0000494	-6.6354
258	mmu-miR-495	0.0000873	0.000055	1.2824
161	mmu-miR-324-5p	0.000109	0.000069	-1.724

349	mmu-miR-652	0.000155	0.0000987	-1.2135
198	mmu-miR-362-3p	0.000163	0.000104	-1.0493
314	mmu-miR-872	0.000234	0.000152	-1.4175
181	mmu-miR-340-5p	0.00025	0.000163	-3.2316
67	mmu-miR-130b	0.000359	0.000237	-1.3547
283	mmu-miR-582-3p	0.000418	0.000278	-5.5949
180	mmu-miR-340-3p	0.000422	0.000281	-1.5731
165	mmu-miR-329	0.000429	0.000287	2.2813
7	mmu-miR-1	0.000452	0.000305	-2.9716
382	mmu-miR-188-5p	0.000454	0.000307	1.815
130	mmu-miR-215	0.000457	0.000311	1.8382
278	mmu-miR-543	0.000464	0.000317	2.0483
81	mmu-miR-142-3p	0.00055	0.000377	-8.5423
246	mmu-miR-467a	0.000581	0.0004	-3.2904
15	mmu-miR-10b	0.000637	0.000441	-3.5895
215	mmu-miR-382	0.000829	0.000583	1.1103
97	mmu-miR-182	0.000912	0.000648	-5.9383
174	mmu-miR-337-5p	0.000951	0.000678	1.0464
53	mmu-miR-103	0.00111	0.000803	-1.6564
328	mmu-miR-125b-3p	0.0012	0.00087	-2.5288
178	mmu-miR-339-5p	0.002	0.00148	-1.1712
71	mmu-miR-134	0.00202	0.00151	1.0584
237	mmu-miR-451	0.00208	0.00156	-9.6546
361	mmu-miR-684	0.0021	0.00159	-5.183
38	mmu-miR-29b	0.00273	0.00208	-2.9293
20	mmu-miR-18a	0.0029	0.00223	-12.6109
204	mmu-miR-370	0.00586	0.00461	1.4119
362	mmu-miR-685	0.00628	0.00496	1.5277
156	mmu-miR-302a	0.00655	0.00519	6.1169

168	mmu-miR-331-5p	0.00991	0.00792	-2.017
73	mmu-miR-135b	0.0106	0.00852	-2.9006
190	mmu-miR-345-5p	0.0116	0.00936	-2.0556
280	mmu-miR-544	0.0127	0.0102	-2.1299
9	mmu-miR-7a	0.0221	0.0182	-8.3105
127	mmu-miR-210	0.0278	0.0229	-10.451
10	mmu-miR-7b	0.0314	0.0262	-6.6403
233	mmu-miR-449a	0.034	0.0284	-6.8011

ID	miRNA_ID	adj.P.Val	P.Value	logFC
1	mmu-let-7b	2.39E-05	1.45E-05	2.27253
2	mmu-let-7c	1.18E-05	6.85E-06	2.28358
6	mmu-let-7i	7.62E-07	3.69E-07	-3.21945
7	mmu-miR-1	7.88E-03	6.18E-03	-1.69941
51	mmu-miR-100	5.85E-06	3.20E-06	2.06388
381	mmu-miR-106a	1.58E-07	6.69E-08	-5.0741
367	mmu-miR-106b	6.58E-06	3.65E-06	-2.91907
14	mmu-miR-10a	3.61E-05	2.26E-05	3.07721
58	mmu-miR-125a-3p	1.14E-02	9.17E-03	1.00168
328	mmu-miR-125b-3p	1.38E-02	1.12E-02	-1.53394
60	mmu-miR-125b-5p	1.58E-07	4.97E-08	1.64376
61	mmu-miR-126-3p	3.79E-06	1.95E-06	1.78034
62	mmu-miR-126-5p	6.75E-07	3.24E-07	1.7615
63	mmu-miR-127	5.07E-07	2.40E-07	5.00727
67	mmu-miR-130b	1.46E-04	9.87E-05	-1.63502
68	mmu-miR-132	1.94E-05	1.16E-05	-2.13328
69	mmu-miR-133a	5.44E-06	2.92E-06	-2.18694
70	mmu-miR-133b	1.66E-06	8.27E-07	-5.6076
71	mmu-miR-134	1.04E-04	6.92E-05	3.1418

73	mmu-miR-135b	2.84E-02	2.37E-02	4.72483
74	mmu-miR-136	1.29E-04	8.57E-05	3.14096
78	mmu-miR-139-5p	6.50E-06	3.59E-06	1.34166
79	mmu-miR-140	4.33E-06	2.28E-06	-1.13802
81	mmu-miR-142-3p	2.32E-03	1.73E-03	-5.91041
329	mmu-miR-143	1.73E-05	1.02E-05	2.08992
84	mmu-miR-145	1.58E-07	7.03E-09	4.22772
86	mmu-miR-146b	5.31E-06	2.83E-06	-1.17937
90	mmu-miR-150	3.66E-07	1.71E-07	3.67166
92	mmu-miR-152	1.32E-05	7.67E-06	1.24676
368	mmu-miR-155	8.36E-06	4.75E-06	-1.91354
17	mmu-miR-15b	1.58E-07	2.41E-09	-1.56844
369	mmu-miR-17	1.58E-07	4.55E-09	-5.02026
95	mmu-miR-181a	4.57E-05	2.93E-05	2.01794
96	mmu-miR-181c	9.60E-04	6.85E-04	2.23736
97	mmu-miR-182	1.90E-04	1.29E-04	-8.69029
98	mmu-miR-183	4.16E-08	3.25E-10	-10.03336
101	mmu-miR-186	7.47E-06	4.20E-06	-2.05392
382	mmu-miR-188-5p	1.44E-04	9.69E-05	2.53305
20	mmu-miR-18a	1.93E-03	1.43E-03	-14.13457
102	mmu-miR-190	1.66E-03	1.21E-03	2.14693
106	mmu-miR-193b	4.74E-06	2.50E-06	1.94229
107	mmu-miR-194	8.02E-04	5.68E-04	1.69499
108	mmu-miR-195	2.33E-07	1.06E-07	2.57759
22	mmu-miR-19a	2.77E-07	1.26E-07	-5.89636
23	mmu-miR-19b	1.58E-07	1.32E-08	-4.51588
120	mmu-miR-203	4.81E-06	2.56E-06	1.6843
121	mmu-miR-204	9.72E-06	5.54E-06	2.96437
24	mmu-miR-20a	1.58E-07	4.63E-08	-5.44651

25	mmu-miR-20b	1.45E-05	8.51E-06	-5.36554
27	mmu-miR-21	1.58E-07	3.38E-09	-5.92444
129	mmu-miR-214	1.08E-05	6.19E-06	1.47792
130	mmu-miR-215	6.23E-04	4.36E-04	2.17567
138	mmu-miR-221	1.58E-07	4.72E-08	-5.52171
139	mmu-miR-222	6.76E-06	3.77E-06	-1.77961
140	mmu-miR-223	3.00E-07	1.37E-07	-4.05374
141	mmu-miR-224	3.79E-06	1.96E-06	3.95925
28	mmu-miR-23b	4.10E-07	1.92E-07	3.7589
30	mmu-miR-25	1.35E-04	9.01E-05	-1.33767
31	mmu-miR-26a	2.28E-07	1.03E-07	2.76244
32	mmu-miR-26b	3.52E-05	2.19E-05	1.34875
33	mmu-miR-27a	4.33E-06	2.27E-06	-1.00002
34	mmu-miR-27b	1.86E-05	1.11E-05	1.12979
150	mmu-miR-296-5p	1.80E-05	1.07E-05	-1.79413
153	mmu-miR-298	4.54E-07	2.14E-07	-7.4606
371	mmu-miR-29a	6.18E-07	2.95E-07	-1.42774
38	mmu-miR-29b	2.43E-03	1.82E-03	-3.05371
154	mmu-miR-301a	1.65E-05	9.71E-06	-2.34656
155	mmu-miR-301b	7.59E-06	4.29E-06	-2.47759
156	mmu-miR-302a	4.40E-05	2.81E-05	6.75542
372	mmu-miR-30a	3.50E-06	1.78E-06	1.74239
41	mmu-miR-30c	3.84E-06	1.99E-06	1.35809
42	mmu-miR-30d	4.12E-05	2.62E-05	1.85232
373	mmu-miR-30e	9.58E-05	6.31E-05	1.12819
374	mmu-miR-31	1.58E-07	6.87E-08	-9.93351
43	mmu-miR-32	6.69E-03	5.18E-03	-3.75011
159	mmu-miR-320	1.58E-07	2.78E-09	2.18029
384	mmu-miR-322	1.35E-04	9.10E-05	-5.96281

164	mmu-miR-328	1.59E-07	7.02E-08	4.11021
165	mmu-miR-329	3.88E-03	2.98E-03	8.77575
168	mmu-miR-331-5p	2.16E-02	1.78E-02	-1.63832
173	mmu-miR-337-3p	9.75E-03	7.77E-03	1.70231
174	mmu-miR-337-5p	1.15E-05	6.59E-06	4.23557
181	mmu-miR-340-5p	6.88E-03	5.34E-03	-1.66893
182	mmu-miR-342-3p	5.83E-06	3.17E-06	1.07241
375	mmu-miR-34b-3p	8.03E-05	5.25E-05	-2.04085
45	mmu-miR-34c	7.47E-07	3.60E-07	-8.65495
195	mmu-miR-350	5.76E-05	3.72E-05	-3.46641
197	mmu-miR-361	2.29E-02	1.90E-02	1.02209
204	mmu-miR-370	9.72E-07	4.79E-07	11.54643
206	mmu-miR-376a	7.06E-06	3.95E-06	1.82769
208	mmu-miR-376c	1.58E-07	1.69E-08	2.80581
211	mmu-miR-379	5.62E-06	3.03E-06	3.31068
213	mmu-miR-380-5p	2.65E-03	2.00E-03	3.09068
215	mmu-miR-382	3.95E-02	3.34E-02	9.71105
219	mmu-miR-409-3p	1.58E-07	4.19E-08	3.14441
221	mmu-miR-410	1.63E-07	7.21E-08	3.18185
222	mmu-miR-411	3.57E-07	1.65E-07	3.05701
224	mmu-miR-423-5p	2.81E-02	2.33E-02	7.99247
228	mmu-miR-431	1.58E-07	3.39E-08	11.5211
229	mmu-miR-433	1.68E-09	4.38E-12	15.36496
230	mmu-miR-434-3p	2.15E-08	1.12E-10	4.61097
231	mmu-miR-434-5p	3.67E-05	2.31E-05	3.33995
233	mmu-miR-449a	2.17E-02	1.79E-02	-7.79029
235	mmu-miR-450a-5p	7.24E-05	4.70E-05	-8.38492
237	mmu-miR-451	1.84E-02	1.50E-02	-5.98063
246	mmu-miR-467a	1.33E-03	9.59E-04	-2.79378

340	mmu-miR-467b	3.65E-05	2.29E-05	-8.05022
247	mmu-miR-467c	2.33E-06	1.17E-06	-9.613
254	mmu-miR-489	2.16E-05	1.30E-05	4.85295
255	mmu-miR-491	1.62E-03	1.18E-03	2.51272
257	mmu-miR-494	1.87E-03	1.37E-03	1.24729
258	mmu-miR-495	2.33E-05	1.41E-05	4.6801
345	mmu-miR-496	2.95E-04	2.03E-04	6.8413
259	mmu-miR-497	3.67E-06	1.87E-06	1.65401
261	mmu-miR-500	6.62E-04	4.66E-04	1.1818
263	mmu-miR-503	2.52E-06	1.27E-06	-7.73213
269	mmu-miR-532-3p	3.17E-05	1.95E-05	1.20606
277	mmu-miR-542-5p	7.61E-05	4.95E-05	-4.89457
278	mmu-miR-543	8.75E-03	6.93E-03	10.35889
280	mmu-miR-544	3.49E-05	2.17E-05	5.45114
282	mmu-miR-574-3p	7.97E-07	3.88E-07	3.34085
283	mmu-miR-582-3p	2.88E-06	1.45E-06	-6.40857
349	mmu-miR-652	4.49E-04	3.14E-04	1.21323
350	mmu-miR-667	3.92E-06	2.04E-06	5.24061
298	mmu-miR-674	2.55E-05	1.56E-05	-10.34923
353	mmu-miR-675-3p	3.42E-07	1.58E-07	-7.87981
355	mmu-miR-676	1.58E-07	1.54E-08	3.6641
362	mmu-miR-685	1.49E-06	7.38E-07	11.51428
299	mmu-miR-708	1.85E-07	8.25E-08	3.96077
9	mmu-miR-7a	1.46E-02	1.18E-02	-9.41406
10	mmu-miR-7b	2.24E-02	1.85E-02	-7.38499
315	mmu-miR-873	1.61E-04	1.09E-04	-3.51913
376	mmu-miR-92a	8.08E-07	3.96E-07	-1.14822
46	mmu-miR-93	1.58E-07	3.45E-09	-4.51826
49	mmu-miR-99a	4.06E-05	2.57E-05	1.69396

50 mmu-miR-99b 1.30E-03 9.29E-04 -1.06149

ID	miRNA_ID	adj.P.Val	P.Value	logFC
1	mmu-let-7b	0.00000342	1.80E-06	3.20479
2	mmu-let-7c	0.00000337	1.76E-06	3.25681
3	mmu-let-7d	0.0000125	6.95E-06	1.83674
4	mmu-let-7e	0.000454	3.13E-04	1.38458
5	mmu-let-7g	0.00000833	4.57E-06	1.29887
6	mmu-let-7i	0.0000514	3.05E-05	-1.88208
7	mmu-miR-1	0.000912	6.55E-04	-2.55917
51	mmu-miR-100	0.0000021	1.05E-06	3.6519
52	mmu-miR-101a	0.000077	4.73E-05	1.35209
381	mmu-miR-106a	0.00000108	5.18E-07	-3.67388
367	mmu-miR-106b	0.000155	9.97E-05	-1.49205
55	mmu-miR-107	0.000077	4.72E-05	-6.8494
14	mmu-miR-10a	0.000116	7.32E-05	3.0036
15	mmu-miR-10b	0.00665	5.18E-03	11.02496
58	mmu-miR-125a-3p	0.000856	6.11E-04	1.60424
60	mmu-miR-125b-5p	0.000000175	7.07E-08	3.39043
61	mmu-miR-126-3p	0.00000964	5.32E-06	1.89256
62	mmu-miR-126-5p	0.000000325	1.40E-07	2.23802
63	mmu-miR-127	0.00000018	7.36E-08	5.17549
65	mmu-miR-129-3p	0.000102	6.42E-05	-7.29837
66	mmu-miR-130a	0.000154	9.84E-05	1.0018
67	mmu-miR-130b	0.000252	1.64E-04	-1.04928
68	mmu-miR-132	0.000271	1.79E-04	-1.17362
69	mmu-miR-133a	0.000000867	4.06E-07	-3.19616
70	mmu-miR-133b	0.00000128	6.23E-07	-6.11125
71	mmu-miR-134	0.000285	1.89E-04	2.7661

74	mmu-miR-136	0.0000303	1.76E-05	4.73092
78	mmu-miR-139-5p	0.000000154	6.13E-08	1.51764
81	mmu-miR-142-3p	0.00287	2.18E-03	-5.60532
82	mmu-miR-142-5p	0.0000184	1.04E-05	-4.51232
329	mmu-miR-143	0.0000182	1.02E-05	2.26925
84	mmu-miR-145	9.55E-09	3.61E-09	4.92582
90	mmu-miR-150	0.000000279	1.19E-07	4.21147
92	mmu-miR-152	0.000000759	3.52E-07	1.9277
369	mmu-miR-17	0.000000201	8.33E-08	-3.67509
95	mmu-miR-181a	0.0000364	2.13E-05	3.10633
96	mmu-miR-181c	0.000943	6.80E-04	3.29884
97	mmu-miR-182	0.000311	2.08E-04	-7.73923
98	mmu-miR-183	0.00000448	2.42E-06	-8.43412
100	mmu-miR-185	0.00409	3.15E-03	1.75037
101	mmu-miR-186	0.0000549	3.27E-05	-1.51683
382	mmu-miR-188-5p	0.000017	9.52E-06	3.84833
20	mmu-miR-18a	0.00297	2.27E-03	-12.55473
102	mmu-miR-190	0.000101	6.30E-05	2.59884
103	mmu-miR-191	0.000000434	1.93E-07	1.43385
104	mmu-miR-192	0.00000254	1.28E-06	1.29831
106	mmu-miR-193b	0.000000618	2.82E-07	3.05841
107	mmu-miR-194	0.0000303	1.75E-05	2.4593
108	mmu-miR-195	0.000000834	3.89E-07	4.47111
111	mmu-miR-197	0.000124	7.86E-05	-6.0899
22	mmu-miR-19a	0.00000105	5.00E-07	-4.11327
23	mmu-miR-19b	0.000000329	1.42E-07	-2.66855
120	mmu-miR-203	0.000000715	3.30E-07	2.96947
121	mmu-miR-204	0.00000146	7.21E-07	4.46173
24	mmu-miR-20a	0.000000574	2.60E-07	-3.88976

25	mmu-miR-20b	0.0000586	3.54E-05	-3.9572
27	mmu-miR-21	0.000000378	1.64E-07	-4.49427
129	mmu-miR-214	0.0000203	1.15E-05	1.70752
130	mmu-miR-215	0.0161	1.29E-02	6.97387
135	mmu-miR-218	0.000965	7.01E-04	1.46773
138	mmu-miR-221	0.000000387	1.69E-07	-3.54776
140	mmu-miR-223	0.000000428	1.89E-07	-3.81105
141	mmu-miR-224	0.000000574	2.59E-07	5.11055
28	mmu-miR-23b	0.000000159	6.38E-08	4.75324
29	mmu-miR-24	0.00000018	7.38E-08	1.57624
31	mmu-miR-26a	0.000000202	8.44E-08	3.89816
32	mmu-miR-26b	0.00000179	8.84E-07	2.93698
34	mmu-miR-27b	0.0000239	1.37E-05	2.10164
150	mmu-miR-296-5p	0.000608	4.26E-04	-1.51087
153	mmu-miR-298	0.000289	1.92E-04	-8.1393
39	mmu-miR-29c	0.000156	1.01E-04	1.20726
154	mmu-miR-301a	0.0000743	4.53E-05	-1.67954
155	mmu-miR-301b	0.0000242	1.39E-05	-1.81047
156	mmu-miR-302a	0.00576	4.45E-03	5.96356
372	mmu-miR-30a	0.0000036	1.91E-06	2.89912
40	mmu-miR-30b	0.000000436	1.95E-07	1.88104
41	mmu-miR-30c	0.000000944	4.48E-07	2.42344
42	mmu-miR-30d	0.0000029	1.50E-06	2.93629
373	mmu-miR-30e	0.0000012	5.80E-07	2.20977
374	mmu-miR-31	0.000000248	1.05E-07	-9.01058
159	mmu-miR-320	0.000000149	5.87E-08	2.67072
384	mmu-miR-322	0.00012	7.62E-05	-5.95588
333	mmu-miR-324-3p	0.0000214	1.22E-05	1.63692
164	mmu-miR-328	0.000000038	1.44E-08	4.20986

165	mmu-miR-329	0.0107	8.39E-03	5.93781	
170	mmu-miR-335-3p	0.0000851	5.25E-05	-1.68745	
173	mmu-miR-337-3p	0.000831	5.91E-04	3.43999	
174	mmu-miR-337-5p	0.00000276	1.41E-06	4.92486	
175	mmu-miR-338-3p	0.00132	9.68E-04	-4.99215	
176	mmu-miR-339-3p	0.0000699	4.24E-05	-7.28725	
180	mmu-miR-340-3p	0.00204	1.53E-03	1.31231	
182	mmu-miR-342-3p	0.0000557	3.34E-05	1.66505	
190	mmu-miR-345-5p	0.0457	3.76E-02	2.21738	
375	mmu-miR-34b-3p	0.000671	4.74E-04	-1.3138	
45	mmu-miR-34c	3.94E-09	1.47E-09	-7.91475	
195	mmu-miR-350	0.0000347	2.02E-05	-2.96539	
197	mmu-miR-361	0.000869	6.23E-04	2.56816	
199	mmu-miR-363	0.0113	8.88E-03	4.97756	
200	mmu-miR-365	0.000387	2.64E-04	1.75904	
203	mmu-miR-369-5p	0.041	3.35E-02	5.1641	
204	mmu-miR-370	0.000000889	4.19E-07	11.82243	
206	mmu-miR-376a	0.0000132	7.35E-06	2.96155	
207	mmu-miR-376b	0.000944	6.84E-04	2.86013	
208	mmu-miR-376c	0.00000113	5.45E-07	4.0403	
211	mmu-miR-379	0.000000181	7.46E-08	4.06912	
213	mmu-miR-380-5p	0.000177	1.15E-04	3.69425	
215	mmu-miR-382	0.00983	7.68E-03	13.50797	
218	mmu-miR-384-5p	0.0136	1.07E-02	2.01335	
219	mmu-miR-409-3p	0.00000199	9.91E-07	2.96013	
221	mmu-miR-410	0.00000066	3.03E-07	3.75278	
222	mmu-miR-411	0.000000215	8.99E-08	4.07519	
224	mmu-miR-423-5p	0.00278	2.10E-03	2.77501	
228	mmu-miR-431	7.61E-08	2.95E-08	11.7971	

229	mmu-miR-433	1.32E-11	3.83E-12	15.64096
230	mmu-miR-434-3p	0.000000405	1.78E-07	5.27199
231	mmu-miR-434-5p	0.00053	3.70E-04	3.17044
233	mmu-miR-449a	0.042	3.45E-02	-6.38035
235	mmu-miR-450a-5p	0.00000299	1.56E-06	-7.91664
246	mmu-miR-467a	0.00315	2.41E-03	-2.4229
340	mmu-miR-467b	0.000366	2.15E-05	-7.83806
247	mmu-miR-467c	0.00000139	5.41E-08	-8.15553
254	mmu-miR-489	0.00000139	6.83E-07	6.66551
255	mmu-miR-491	0.00167	1.24E-03	2.25848
256	mmu-miR-493	0.000326	2.20E-04	-5.5918
257	mmu-miR-494	0.000282	1.87E-04	2.31055
258	mmu-miR-495	0.000336	2.27E-04	4.75399
345	mmu-miR-496	0.000259	1.69E-04	7.1173
259	mmu-miR-497	0.00000385	2.05E-06	3.94822
261	mmu-miR-500	0.000823	5.83E-04	1.7383
263	mmu-miR-503	4.72E-09	1.77E-09	-8.9161
269	mmu-miR-532-3p	0.00000586	3.19E-06	1.38453
277	mmu-miR-542-5p	0.000322	2.17E-04	-4.74742
278	mmu-miR-543	0.0000881	5.46E-05	5.91577
348	mmu-miR-547	0.00224	1.69E-03	8.16978
282	mmu-miR-574-3p	4.81E-08	1.85E-08	3.5977
349	mmu-miR-652	0.0000372	2.20E-05	2.20292
350	mmu-miR-667	0.0000035	1.85E-06	5.06923
295	mmu-miR-671-3p	0.000622	4.37E-04	1.59024
298	mmu-miR-674	0.00000276	1.42E-06	-9.53749
353	mmu-miR-675-3p	0.0000024	1.21E-06	-8.74581
355	mmu-miR-676	0.00000308	1.32E-07	5.07793
358	mmu-miR-680	0.00000586	3.19E-06	-5.3021

362	mmu-miR-685	0.0286	2.32E-02	9.08215
299	mmu-miR-708	0.000000151	5.99E-08	4.75014
9	mmu-miR-7a	0.0257	2.07E-02	-8.01022
10	mmu-miR-7b	0.0461	3.80E-02	-5.92648
46	mmu-miR-93	4.04E-08	1.55E-08	-3.22822
49	mmu-miR-99a	0.0000071	3.88E-06	3.50163

Supplemental Table 2

miRNA_ID	logFC_36	logFC_60	logFC_72
mmu-miR-134	1.0584	3.1418	2.7661
mmu-miR-188-5p	1.815	2.53305	3.84833
mmu-miR-328	1.7697	4.11021	4.20986
mmu-miR-708	1.2583	3.96077	4.75014
mmu-miR-23b	1.0989	3.7589	4.75324
mmu-miR-495	1.2824	4.6801	4.75399
mmu-miR-337-5p	1.0464	4.23557	4.92486
mmu-miR-676	1.3526	3.6641	5.07793
mmu-miR-127	1.9542	5.00727	5.17549
mmu-miR-434-3p	1.2196	4.61097	5.27199
mmu-miR-489	1.401	4.85295	6.66551
mmu-miR-215	1.8382	2.17567	6.97387
mmu-miR-370	1.4119	11.54643	11.82243
mmu-miR-382	1.1103	9.71105	13.50797
mmu-miR-433	4.3707	15.36496	15.64096

Supplemental Table 3

Target	miRNA	Score
Mar 3	miR-143	0.11
Mar 5	miR-143	0.11
ARSJ	miR-143	0.04
C1orf130	miR-143	0.04
CDK2	miR-143	0.04
PAK6	miR-143	0.04
ATF3	miR-143	0.05
BARX2	miR-143	0.05
C8orf46	miR-143	0.05
CD44	miR-143	0.05
CLSTN1	miR-143	0.05
CREG2	miR-143	0.05
FADS6	miR-143	0.05
FAM71C	miR-143	0.05
GPR45	miR-143	0.05
HEG1	miR-143	0.05
HLA-DQA1	miR-143	0.05
HTR7	miR-143	0.05
KCNA6	miR-143	0.05
KIAA0090	miR-143	0.05
LOC728392	miR-143	0.05
NAP1L4	miR-143	0.05
NAV1	miR-143	0.05
NCBP1	miR-143	0.05
NSL1	miR-143	0.05
OLFML1	miR-143	0.05
PLEKHG2	miR-143	0.05

POU2F1	miR-143	0.05
SRSF11	miR-143	0.05
TCN1	miR-143	0.05
TRIM40	miR-143	0.05
ZC4H2	miR-143	0.05
ZNF236	miR-143	0.05
ADAMTS17	miR-143	0.06
ANKRD33B	miR-143	0.06
ATP10B	miR-143	0.06
DCX	miR-143	0.06
FAM180A	miR-143	0.06
FAM71F1	miR-143	0.06
GFPT2	miR-143	0.06
GOLM1	miR-143	0.06
KCNC1	miR-143	0.06
LIF	miR-143	0.06
NEIL2	miR-143	0.06
PERP	miR-143	0.06
SLC22A3	miR-143	0.06
TMOD2	miR-143	0.06
UNC5A	miR-143	0.06
WARS2	miR-143	0.06
ZNF583	miR-143	0.06
CAPRIN1	miR-143	0.07
CBL	miR-143	0.07
CLIC5	miR-143	0.07
CYBRD1	miR-143	0.07
DDX58	miR-143	0.07
EARS2	miR-143	0.07

POPDC3	miR-143	0.07
PSME4	miR-143	0.07
RASSF6	miR-143	0.07
SP7	miR-143	0.07
ZNF282	miR-143	0.07
CAT	miR-143	0.08
EPB41L5	miR-143	0.08
EPG5	miR-143	0.08
FAM111A	miR-143	0.08
FASLG	miR-143	0.08
KLHL8	miR-143	0.08
MFSD6	miR-143	0.08
NEURL	miR-143	0.08
PHTF2	miR-143	0.08
SIDT1	miR-143	0.08
ZNF81	miR-143	0.08
KLF5	miR-143	0.09
MYO3A	miR-143	0.09
NXPH3	miR-143	0.09
SNX27	miR-143	0.09
TET2	miR-143	0.09
CHST10	miR-143	0.1
DQX1	miR-143	0.1
SMAD3	miR-143	0.1
TMEM180	miR-143	0.1
ABCC4	miR-143	0.11
ABHD2	miR-143	0.11
ACTC1	miR-143	0.11
ADCYAP1R1	miR-143	0.11

ADD3	miR-143	0.11
AFAP1L2	miR-143	0.11
ARHGEF40	miR-143	0.11
ARL15	miR-143	0.11
ARPC4-TLL3	miR-143	0.11
ATXN7L3B	miR-143	0.11
BCORL1	miR-143	0.11
BRWD3	miR-143	0.11
BSN	miR-143	0.11
C10orf76	miR-143	0.11
C12orf68	miR-143	0.11
CALM1	miR-143	0.11
CALN1	miR-143	0.11
CASP14	miR-143	0.11
CCDC149	miR-143	0.11
CCDC56	miR-143	0.11
COL5A1	miR-143	0.11
CREB5	miR-143	0.11
CREBL2	miR-143	0.11
CSNK1G3	miR-143	0.11
CTC1	miR-143	0.11
CTF1	miR-143	0.11
DCAKD	miR-143	0.11
DDAH1	miR-143	0.11
DIXDC1	miR-143	0.11
DOCK2	miR-143	0.11
DTNB	miR-143	0.11
EFNB3	miR-143	0.11
EGLN1	miR-143	0.11

ELK4	miR-143	0.11
ENOX2	miR-143	0.11
ENSA	miR-143	0.11
EPM2AIP1	miR-143	0.11
ERAP1	miR-143	0.11
ERCC6	miR-143	0.11
ESRRG	miR-143	0.11
EXTL3	miR-143	0.11
FAM117A	miR-143	0.11
FBXO7	miR-143	0.11
FCHSD2	miR-143	0.11
FEZF1	miR-143	0.11
FGD4	miR-143	0.11
FGD6	miR-143	0.11
FMN1	miR-143	0.11
FUT4	miR-143	0.11
GABARAPL1	miR-143	0.11
GOSR2	miR-143	0.11
GRIPAP1	miR-143	0.11
HDAC7	miR-143	0.11
HHLA2	miR-143	0.11
HNRNPUL2	miR-143	0.11
HOXA7	miR-143	0.11
IGF2R	miR-143	0.11
IQSEC1	miR-143	0.11
JMY	miR-143	0.11
KANK4	miR-143	0.11
KAT7	miR-143	0.11
KCNJ10	miR-143	0.11

KIAA0141	miR-143	0.11
KIF1B	miR-143	0.11
KLLN	miR-143	0.11
KPNA1	miR-143	0.11
LIMK2	miR-143	0.11
MAP1B	miR-143	0.11
MEGF9	miR-143	0.11
MEX3C	miR-143	0.11
MLLT3	miR-143	0.11
MOBP	miR-143	0.11
MOSC1	miR-143	0.11
NBN	miR-143	0.11
NFIC	miR-143	0.11
NRAS	miR-143	0.11
NRSN1	miR-143	0.11
NRSN2	miR-143	0.11
ORC4	miR-143	0.11
PCMT1	miR-143	0.11
PDPR	miR-143	0.11
PHLDB1	miR-143	0.11
PLAU	miR-143	0.11
PLEKHM3	miR-143	0.11
PLEKHO2	miR-143	0.11
PLXNA2	miR-143	0.11
PPP2R2A	miR-143	0.11
PSD3	miR-143	0.11
RAB2B	miR-143	0.11
RALGPS1	miR-143	0.11
RANBP10	miR-143	0.11

REEP3	miR-143	0.11
RGSL1	miR-143	0.11
RICTOR	miR-143	0.11
RLIM	miR-143	0.11
RNF6	miR-143	0.11
ROD1	miR-143	0.11
RSRC2	miR-143	0.11
SAMD8	miR-143	0.11
SCAF8	miR-143	0.11
SDC3	miR-143	0.11
SLC12A6	miR-143	0.11
SLC35F1	miR-143	0.11
SMARCD2	miR-143	0.11
SMNDC1	miR-143	0.11
SNX30	miR-143	0.11
SOBP	miR-143	0.11
SPRY3	miR-143	0.11
SRCIN1	miR-143	0.11
SSH2	miR-143	0.11
STRN3	miR-143	0.11
STXBP1	miR-143	0.11
SV2B	miR-143	0.11
SYT3	miR-143	0.11
TGM2	miR-143	0.11
TM2D2	miR-143	0.11
TMEM127	miR-143	0.11
TMEM132B	miR-143	0.11
TMEM135	miR-143	0.11
TMEM167B	miR-143	0.11

TNS3	miR-143	0.11
TOB2	miR-143	0.11
TRAM2	miR-143	0.11
TSEN34	miR-143	0.11
UBE3C	miR-143	0.11
UCK2	miR-143	0.11
USP22	miR-143	0.11
WNT5B	miR-143	0.11
WSCD1	miR-143	0.11
XK	miR-143	0.11
YIF1B	miR-143	0.11
ZBED5	miR-143	0.11
ZDHHC2	miR-143	0.11
ZFP91	miR-143	0.11
ZHX3	miR-143	0.11
ZNF395	miR-143	0.11
AP2B1	miR-143	0.12
CCDC58	miR-143	0.12
SERPINE1	miR-143	0.12
SFMBT2	miR-143	0.12
SLCO2A1	miR-143	0.12
SSX2IP	miR-143	0.12
TAPBP	miR-143	0.12
ZSCAN20	miR-143	0.12
CPLX2	miR-143	0.13
FXD3	miR-143	0.13
MAP3K7	miR-143	0.13
SLC7A11	miR-143	0.13
AMMECR1	miR-143	0.14

C13orf30	miR-143	0.14
KIAA2022	miR-143	0.14
RAB7L1	miR-143	0.14
TXLNB	miR-143	0.14
AMOTL1	miR-143	0.15
NCOA7	miR-143	0.15
PLAGL2	miR-143	0.15
TCF20	miR-143	0.15
ZNF182	miR-143	0.15
DAPK1	miR-143	0.16
MAB21L1	miR-143	0.16
SLC39A10	miR-143	0.16
ZNF526	miR-143	0.16
KRT80	miR-143	0.17
A1CF	miR-143	0.18
AK2	miR-143	0.18
C13orf33	miR-143	0.18
CEP128	miR-143	0.18
KDM5A	miR-143	0.18
UBE2E1	miR-143	0.18
TLK2	miR-143	0.19
AHCYL1	miR-143	0.2
FGF9	miR-143	0.2
MARK2	miR-143	0.2
MCF2	miR-143	0.2
PBOV1	miR-143	0.21
DCLK1	miR-143	0.23
FRS2	miR-143	0.23
SLC39A11	miR-143	0.23

TSHR	miR-143	0.23
ERBB4	miR-143	0.24
HTR2C	miR-143	0.24
INO80D	miR-143	0.24
ADD2	miR-143	0.26
AP3M1	miR-143	0.26
ARHGEF1	miR-143	0.26
ASH1L	miR-143	0.26
ATOH8	miR-143	0.26
ATP11C	miR-143	0.26
BBC3	miR-143	0.26
BBS9	miR-143	0.26
BCL2	miR-143	0.26
C1orf115	miR-143	0.26
C20orf111	miR-143	0.26
CACHD1	miR-143	0.26
CACNA1E	miR-143	0.26
CASK	miR-143	0.26
CDH5	miR-143	0.26
CNNM1	miR-143	0.26
COL5A3	miR-143	0.26
COX18	miR-143	0.26
CPEB2	miR-143	0.26
CTGF	miR-143	0.26
DGKB	miR-143	0.26
DLG3	miR-143	0.26
DLGAP2	miR-143	0.26
DNAJC3	miR-143	0.26
EEF2K	miR-143	0.26

EMP1	miR-143	0.26
ENPP1	miR-143	0.26
EPB41	miR-143	0.26
FAM108B1	miR-143	0.26
FAM123B	miR-143	0.26
FAM83F	miR-143	0.26
FAM91A1	miR-143	0.26
FBXO46	miR-143	0.26
FNDC3B	miR-143	0.26
FNDC5	miR-143	0.26
GFOD2	miR-143	0.26
GSR	miR-143	0.26
HSPB7	miR-143	0.26
IGF1R	miR-143	0.26
KCMF1	miR-143	0.26
KCNK10	miR-143	0.26
KCNQ4	miR-143	0.26
LANCL3	miR-143	0.26
LIFR	miR-143	0.26
LOC100507421	miR-143	0.26
LOXL4	miR-143	0.26
LSAMP	miR-143	0.26
MAPK1	miR-143	0.26
MARCKS	miR-143	0.26
MBOAT2	miR-143	0.26
MDGA1	miR-143	0.26
MIPOL1	miR-143	0.26
MKL2	miR-143	0.26
MLL2	miR-143	0.26

MOSPD1	miR-143	0.26
MPPED1	miR-143	0.26
MSR1	miR-143	0.26
MTPN	miR-143	0.26
NDFIP1	miR-143	0.26
NLRP1	miR-143	0.26
NOVA1	miR-143	0.26
PDGFRA	miR-143	0.26
PDIA6	miR-143	0.26
PDPK1	miR-143	0.26
PGK1	miR-143	0.26
PLXNA4	miR-143	0.26
PPP2R3A	miR-143	0.26
PPT2	miR-143	0.26
PRPF19	miR-143	0.26
PRR14L	miR-143	0.26
PTGS2	miR-143	0.26
PTPN14	miR-143	0.26
PUS10	miR-143	0.26
RARG	miR-143	0.26
RGAG1	miR-143	0.26
RNF122	miR-143	0.26
RPS6KL1	miR-143	0.26
SCAMP4	miR-143	0.26
SCGB1A1	miR-143	0.26
SCN2B	miR-143	0.26
SEC14L5	miR-143	0.26
SEMA6A	miR-143	0.26
SESTD1	miR-143	0.26

SEZ6L	miR-143	0.26
SLC25A25	miR-143	0.26
SLC28A3	miR-143	0.26
SLC5A12	miR-143	0.26
SLU7	miR-143	0.26
SOX6	miR-143	0.26
STMN3	miR-143	0.26
SVIL	miR-143	0.26
TMEM33	miR-143	0.26
TNP1	miR-143	0.26
TNRC6C	miR-143	0.26
TOR1AIP2	miR-143	0.26
TPM4	miR-143	0.26
TRPC5	miR-143	0.26
TRPS1	miR-143	0.26
TSKU	miR-143	0.26
TSPAN14	miR-143	0.26
TTYH3	miR-143	0.26
VAMP7	miR-143	0.26
VPS37A	miR-143	0.26
WDR37	miR-143	0.26
WDR81	miR-143	0.26
ZNFX1	miR-143	0.26
MIP	miR-143	0.27
ALS2	miR-143	0.28
CBX5	miR-143	0.28
CTNND1	miR-143	0.28
RMND5A	miR-143	0.28
HK2	miR-143	0.31

ITM2B	miR-143	0.31
BCL2L13	miR-143	0.32
FAM100B	miR-143	0.32
PAN3	miR-143	0.32
LRRC8B	miR-143	0.33
MAPKAPK3	miR-143	0.34
EPT1	miR-143	0.35
GCNT1	miR-143	0.35
TANC2	miR-143	0.35
CACNA1C	miR-143	0.36
CNNM3	miR-143	0.36
COL1A1	miR-143	0.36
COL5A2	miR-143	0.36
CREBZF	miR-143	0.36
CRLF3	miR-143	0.36
DENND1B	miR-143	0.36
FAM60A	miR-143	0.36
FGF1	miR-143	0.36
GPR180	miR-143	0.36
GXYLT1	miR-143	0.36
KCNH8	miR-143	0.36
KIF3B	miR-143	0.36
LARP4	miR-143	0.36
LASP1	miR-143	0.36
LBH	miR-143	0.36
PAPD5	miR-143	0.36
PC	miR-143	0.36
PTAR1	miR-143	0.36
PTPN11	miR-143	0.36

RASAL2	miR-143	0.36
RNF165	miR-143	0.36
SEC62	miR-143	0.36
SLC30A8	miR-143	0.36
SVEP1	miR-143	0.36
SVOP	miR-143	0.36
TAOK2	miR-143	0.36
WWC3	miR-143	0.36
XPO5	miR-143	0.36
ZNF275	miR-143	0.36
GDF10	miR-143	0.37
MAN1A1	miR-143	0.37
MFAP3	miR-143	0.37
RER1	miR-143	0.37
UBE2E3	miR-143	0.38
RUNX3	miR-143	0.39
SIX4	miR-143	0.39
SLC35A4	miR-143	0.4
SRGAP2	miR-143	0.41
ERBB3	miR-143	0.42
GRHL2	miR-143	0.42
PHF6	miR-143	0.42
SLC38A2	miR-143	0.42
TARDBP	miR-143	0.44
BNIP1	miR-143	0.47
C20orf11	miR-143	0.47
MSL1	miR-143	0.49
PDK3	miR-143	0.5
SLC16A2	miR-143	0.51

KCND1	miR-143	0.52
MYO6	miR-143	0.53
TUB	miR-143	0.53
MYBL2	miR-143	0.54
NECAP1	miR-143	0.54
OTUD4	miR-143	0.54
INADL	miR-143	0.55
EFS	miR-143	0.56
ARID3B	miR-143	0.58
KLC2	miR-143	0.59
MSI2	miR-143	0.59
VASH1	miR-143	0.6
STAC	miR-143	0.63
FOSL2	miR-143	0.64
KLF13	miR-143	0.64
AFF1	miR-143	0.65
MOGS	miR-143	0.65
QKI	miR-143	0.65
DENND4C	miR-143	0.66
RBM24	miR-143	0.66
TSC22D3	miR-143	0.66
HABP2	miR-143	0.67
TTPA	miR-143	0.67
BRD2	miR-143	0.68
CPD	miR-143	0.69
FAR1	miR-143	0.7
LMO4	miR-143	0.7
ANKRD12	miR-143	0.72
LPAR2	miR-143	0.72

UPF1	miR-143	0.72
AKAP6	miR-143	0.73
ITGA6	miR-143	0.73
TPM3	miR-143	0.73
ATG2B	miR-143	0.74
DIP2B	miR-143	0.74
ITGB8	miR-143	0.74
KRAS	miR-143	0.74
LARP1	miR-143	0.74
AKAP13	miR-143	0.75
LIMK1	miR-143	0.75
NFATC1	miR-143	0.75
PPM1E	miR-143	0.75
ASAP3	miR-143	0.76
ATP6V1A	miR-143	0.76
SH3PXD2A	miR-143	0.76
USP45	miR-143	0.76
ZBTB44	miR-143	0.76
GNS	miR-143	0.77
TET1	miR-143	0.77
TMEM121	miR-143	0.77
ZNF148	miR-143	0.77
CACNA1A	miR-143	0.78
CRELD1	miR-143	0.78
HIPK2	miR-143	0.78
MAPK7	miR-143	0.78
NUAK2	miR-143	0.78
ST8SIA4	miR-143	0.78
WHSC1	miR-143	0.78

ABL2	miR-143	0.79
ARHGAP26	miR-143	0.79
ATP10A	miR-143	0.79
ETV6	miR-143	0.79
FGF7	miR-143	0.79
GIGYF2	miR-143	0.79
GLI3	miR-143	0.79
IGFBP5	miR-143	0.79
MAF	miR-143	0.79
NPR3	miR-143	0.79
PHACTR4	miR-143	0.79
PRKCE	miR-143	0.79
SECISBP2L	miR-143	0.79
SLC25A15	miR-143	0.79
TMEM41B	miR-143	0.79
TRAPPC8	miR-143	0.79
USP46	miR-143	0.79
VAPB	miR-143	0.79
ZNF618	miR-143	0.79

Supplemental Table 4

#node1	node2	combined_score
Gsr	Cat	0.282
Arhgef1	Cd44	0.304
Ptgs2	Atf3	0.324
Mark2	Arhgef1	0.331
Nfatc1	Fasl	0.343
Dock2	Mcf2	0.352
Serpine1	Atf3	0.368
Prkce	Ptgs2	0.393
Neurl1a	Ercc6	0.4
Nap1l4	Igf2r	0.401
Ptgs2	Lpar2	0.401
Mapk7	Lif	0.402
Nlrp1a	Bcl2	0.402
Maf	Fosl2	0.402
Ptgs2	Kras	0.403
Dclk1	Calm1	0.405
Ctf1	Als2	0.406
Cbx2	Fgf9	0.411
Mdga1	Ctgf	0.413
Abcc4	Slco2a10	0.415
Gcnt1	Fut4	0.416
Cacna1c	Sv2b	0.417
Cbl	Slc38a2	0.419
Epb4.1	Add2	0.42
Crebzf	Mcf2	0.421
Tardbp	Mapk1	0.421

St8sia4	Dcx	0.424
Tgm2	Itga6	0.427
Htr7	Plau	0.429
Aff1	Lasp1	0.429
Hipk2	Hk2	0.429
Atp6v1a	Necap1	0.429
Cbx5	Cacna1a	0.432
Fgf7	Scgb1a1	0.433
Mllt3	Nras	0.434
Crebzf	Trps1	0.439
Pcmt1	Mtap1b	0.44
Nfatc1	Atf3	0.44
Lif	Cnnm1	0.441
Fam91a1	Mtpn	0.442
ErbB3	Ptpn11	0.443
Epb4.1	Xk	0.444
Bcl2	Fosl2	0.445
Mapk1	Frs2	0.446
Trps1	Runx3	0.446
Kras	Abl2	0.446
Strn3	Calm1	0.448
Mtpn	Tapbp	0.448
Serpine1	Ptgs2	0.449
Mybl2	Col1a1	0.45
Dapk1	Mcf2	0.451
Ctgf	Col1a1	0.453
Igfbp5	Tnp1	0.453
Hoxa7	Cbx2	0.454
Smad3	Dapk1	0.459

Mllt3	Lasp1	0.46
Vapb	Ctf1	0.46
Nap1l4	Atp11c	0.46
Fndc5	Cat	0.46
Tardbp	Vapb	0.463
Sdc3	Cd44	0.465
Dclk1	Kras	0.466
Mark2	Serpine1	0.47
Mipol1	Sp7	0.47
Neurl1a	Pdgfra	0.473
Myo6	Kif1b	0.475
Tardbp	Als2	0.476
Igfbp5	Igf1r	0.476
Kcnk10	Kcnj10	0.478
Slc7a11	Frs2	0.48
Qk	Mtap1b	0.482
Bcl2	Cat	0.482
Tet2	Cbl	0.485
Akap13	Crebzf	0.491
Six4	Wnt5b	0.498
Abhd2	Pdgfra	0.498
Caprin1	Tapbp	0.5
Dapk1	Mtap1b	0.5
Marcks	Add2	0.503
Etv6	Ptpn11	0.506
Rasal2	Mapk1	0.506
Pdia6	Dnajc3	0.509
Ak2	Fasl	0.511
Tsc22d3	Lasp1	0.512

Kcnj10	Inadl	0.514
Sema6a	Sdc3	0.515
Fam60a	Pdgfra	0.518
Lmo4	Rlim	0.518
Atf3	Ctgf	0.521
Cbx5	Arhgef1	0.521
Stmn3	Mcf2	0.523
Fmn1	Fgf9	0.525
Trps1	Klf13	0.527
Msr1	Ap2b1	0.527
Cux1	Mdga1	0.527
Nfatc1	Map3k7	0.531
Arid3b	Pdgfra	0.532
Fbxo7	Gigyf2	0.534
Hdac7	Plagl2	0.536
Mark2	Ctgf	0.537
Snx27	Marcks	0.545
Smndc1	Ube2e10	0.55
Neil2	Mll2	0.552
Add2	Calm1	0.558
Mllt3	Hoxa7	0.564
Myo6	Svil	0.566
Fam60a	Fut4	0.569
Ercc6	Cat	0.569
Mark2	Ptpn11	0.571
Cask	Sdc3	0.575
Smad3	Runx3	0.581
Itga6	Cd44	0.582
Add3	Calm1	0.585

Rasal2	Map3k7	0.593
Kcnj10	Kcnq4	0.595
Htr2c	Ralgps10	0.595
Crebzf	Zfp91	0.602
Mex3c	Erap1	0.603
Cnm1	Klf5	0.609
Rnf6	Limk1	0.612
Vamp7	Inadl	0.627
Rab7l1	Cacna1e	0.634
Pou2f1	Slc22a3	0.635
Sfmbt2	Ddah1	0.642
Fmn1	Srgap2	0.643
Fam60a	Actc1	0.655
Prkce	Mapk1	0.658
Neurl1a	Abhd2	0.658
Marcks	Add3	0.659
Bnipl	Bcl2	0.666
Scn2b	Nav1	0.667
Etv6	Pdgfra	0.667
Arsj	Gns	0.674
Mapk7	Akap6	0.675
Akap13	Chst10	0.678
Klc2	Clstn1	0.68
Upf1	Ncbp1	0.682
Lmo4	Ptpn11	0.687
Barx2	Creb5	0.689
Adcyap1r1	Igf1r	0.694
Ptpn14	Larp1	0.696
Mark2	Creg2	0.697

Lifr	Egln1	0.698
Tnrc6c	Pan3	0.699
Trpc5	Calm1	0.705
Etv6	Abl2	0.715
Plxna2	Pou2f1	0.721
Ptgs2	Fasl	0.723
Vapb	Als2	0.73
Nbn	Cdk2	0.73
Bcl2	Cdk2	0.736
Spry3	Frs2	0.743
Sp7	Nfatc1	0.744
Creb5	Atf3	0.747
Cd44	Fasl	0.756
Serpine1	Ctgf	0.757
Cask	Calm1	0.759
Lifr	Fosl2	0.76
Lif	Fut4	0.783
Nlrp1a	Cat	0.783
Plagl2	Kif3b	0.788
Dapk1	Calm1	0.797
Etv6	Mapk1	0.8
Col5a2	Sdc3	0.8
Dapk1	Mapk1	0.8
Actc1	Tpm4	0.8
Maf	Ptgs2	0.8
Cbl	Pdgfra	0.8
Fgf1	Pdgfra	0.8
Col5a2	Itgb8	0.8
ErbB4	Cbl	0.8

Tpm3	Nras	0.8
Map3k7	Mapk1	0.8
Tpm3	Kras	0.8
Ptpn11	Mapk1	0.8
Smad3	Mapk1	0.8
Nras	Igf1r	0.8
Itgb8	Col1a1	0.8
ErbB4	Ptgs2	0.8
Kras	Pdgfra	0.8
Bcl2	Mapk1	0.8
Itga6	Col1a1	0.8
Kras	Igf1r	0.8
Cd44	Col5a3	0.8
Lifr	Cbl	0.8
Col5a2	Itga6	0.8
Sdc3	Col5a1	0.8
Smad3	Bcl2	0.8
Sdc3	Col1a1	0.8
Fgf1	Igf1r	0.8
Cacna1c	Calml1	0.8
Kras	Calml1	0.8
ErbB3	Cbl	0.8
Nras	Mapk1	0.8
Gli3	Csnk1g3	0.8
Nras	Calml1	0.8
Pak6	Limk1	0.8
Elk4	Mapk1	0.8
Fgf9	Pdgfra	0.8
Tpm3	Actc1	0.8

Col5a1	Itgb8	0.8
Itga6	Col5a1	0.8
Itga6	Col5a3	0.8
Itga6	Itgb8	0.8
Sdc3	Col5a3	0.8
Fgf7	Pdgfra	0.8
Pak6	Limk2	0.8
Itgb8	Col5a3	0.8
Fgf9	Igf1r	0.8
Nras	Pdgfra	0.8
Cd44	Col1a1	0.8
Cbl	Igf1r	0.8
Fgf7	Igf1r	0.8
Col5a1	Cd44	0.8
Col5a2	Cd44	0.8
Kras	Mapk1	0.8
Htr7	Gnal	0.8
Smad3	Ctgf	0.808
Egln1	Fosl2	0.808
Igf2r	Igf1r	0.815
Epb4.1	Cd44	0.816
Maf	Ctgf	0.816
Nfatc1	Ptgs2	0.818
Smad3	Serpine1	0.823
Tsc22d3	Ptgs2	0.827
Erc6	Pou2f1	0.833
Cask	Epb4.1	0.842
Lif	Ctf1	0.847
Marcks	Mapk1	0.852

Bcl2	Fasl	0.852	
Sp7	Runx3	0.859	
Nfatc1	Calm1	0.864	
Bcl2	Egln1	0.864	
Sp7	Col5a3	0.879	
Ptpn11	Nras	0.88	
Arhgef1	Mcf2	0.893	
Ctnnd1	Epb4.1l5	0.895	
Smad3	Cdk2	0.896	
Barx2	Pou2f1	0.9	
Cbx5	Hdac7	0.9	
Pdpk1	Rictor	0.9	
Sox6	Pou2f1	0.9	
Plxna4	Limk1	0.9	
Mboat2	Dgkb	0.9	
Cbl	Ap2b1	0.9	
Fgf1	Cbl	0.9	
Cacna1c	Cacna1e	0.9	
Sox6	Atf3	0.9	
Mtap1b	Kif1b	0.9	
Fgf7	Frs2	0.9	
Pou2f1	Cdk2	0.9	
Lmo4	Barx2	0.9	
Lmo4	Cdk2	0.9	
Rarg	Atf3	0.9	
Sfrs11	Ncbp1	0.9	
Orc4l	Cdk2	0.9	
Barx2	Atf3	0.9	
Lmo4	Pou2f1	0.9	

Ctnnd1	Cdh5	0.9	
Rarg	Pou2f1	0.9	
Fgf1	Frs2	0.9	
Lmo4	Sox6	0.9	
Atf3	Pou2f1	0.9	
Plxna2	Limk1	0.9	
Cbl	Fgf9	0.9	
Barx2	Sox6	0.9	
Cacna1c	Cacna1a	0.9	
Pdpk1	Map3k7	0.9	
Barx2	Rarg	0.9	
Serpine1	Plau	0.9	
Lmo4	Atf3	0.9	
Fgf9	Frs2	0.9	
Atf3	Cdk2	0.9	
Rarg	Esrrg	0.9	
Cdk2	Ube2e10	0.9	
Rarg	Cdk2	0.9	
Lmo4	Rarg	0.9	
Extl3	Gosr2	0.9	
Fgf7	Cbl	0.9	
Cbx5	Gli3	0.9	
Gfpt2	Hk2	0.9	
Mapk1	Ap2b1	0.9	
Sox6	Rarg	0.9	
Sox6	Cdk2	0.9	
Mboat2	D5Wsu178e	0.9	
D5Wsu178e	Dgkb	0.9	
Barx2	Cdk2	0.9	

Prkce	Marcks	0.909	
Cbl	Frs2	0.911	
Lifr	Ctf1	0.911	
Ptpn11	Frs2	0.912	
Epb4.1	Calm1	0.913	
Col5a2	Col5a1	0.914	
Fgf1	Fgf7	0.915	
Col5a1	Col1a1	0.917	
Sp7	Col1a1	0.925	
Eef2k	Calm1	0.925	
Mapk7	Mapk1	0.93	
Akap13	Mcf2	0.931	
Nfatc1	Fosl2	0.932	
Fgf1	Fgf9	0.936	
Cacna1a	Cacna1e	0.944	
Col5a2	Col1a1	0.949	
Bcl2	Ptgs2	0.95	
Tpm3	Tpm4	0.951	
Lif	Lifr	0.956	
Ptpn11	Kras	0.957	
Igf2r	Slc22a3	0.957	
Plxna4	Plxna2	0.959	
Aff1	Mllt3	0.961	
Marcks	Calm1	0.964	
Sema6a	Plxna2	0.985	
Sema6a	Plxna4	0.988	
Bcl2	Bbc3	0.999	