

Supplementary Table S1: Up and Down regulated miRNAs based on literatures

No.	UP regulated miRNAs	Down regulated miRNAs
1	hsa-miR-16-2 (miR-16)	hsa-miR-7-1-3p
2	hsa-miR-768	hsa-miR-15b
3	hsa-miR-9-3p	hsa-miR-15a
4	hsa-miR-20b-3p	hsa-miR-16-1-5p
5	hsa-miR-96	hsa-miR-140-5p
6	hsa-miR-22	hsa-miR-579
7	hsa-miR-134	hsa-let-7i
8	hsa-miR-29b-2-5p	hsa-miR-17
9	hsa-miR-140	hsa-miR-98
10	hsa-miR-30e	hsa-miR-211
11	hsa-miR-150	hsa-miR-623
12	hsa-miR-30e-3p	hsa-miR-20a
13	hsa-miR-151	hsa-miR-106a
14	hsa-miR-181b	hsa-miR-374a
15	hsa-miR-342	hsa-miR-624-5p
16	hsa-miR-454	hsa-miR-20b
17	hsa-miR-574	hsa-let-7d
18	hsa-miR-196a	hsa-miR-27a
19	hsa-miR-378	hsa-miR-126-5p
20	hsa-miR-500	hsa-miR-510
21	hsa-miR-671	hsa-let-7f
22	hsa-miR-210	hsa-let-7g
23	hsa-miR-431	hsa-miR-1979
24	hsa-miR- 502-5p	hsa-miR- 223
25	has-let-7c	hsa-miR-23a
26	hsa-miR-337-5p	hsa-miR-31-3p
27	hsa-miR-449b	hsa-miR-181c
28	hsa-miR-542-5p	hsa-miR-363
29	has-let -7d	hsa-miR-374a-3p
30	hsa-miR-451	hsa-miR-876-3p
31	has-let-7f	hsa-miR-152
32	hsa-miR-648	hsa-miR-199a
33	hsa-miR-422a	hsa-miR-197
34	hsa-miR-572	hsa-miR-328
35	hsa-miR-614	hsa-miR-363
36	hsa-miR-1826	hsa-let-7g- 3p
37	hsa-miR-155	hsa-miR-99b
38	hsa-miR-142-3p	hsa-miR-339-5p
39	hsa-miR-491-5p	hsa-miR-494
40	hsa-miR-145	hsa-miR-361-5p
41	hsa-miR-186	hsa-miR-625
42	hsa-miR-223	hsa-miR-3153
43	hsa-miR-584	hsa-miR-30c
44	hsa-miR-664	hsa-miR-423-3p
45	hsa-miR-1275	hsa-miR-663
46	hsa-miR -142-3p	hsa-miR-3178
47	hsa-miR-146a	hsa-miR-423-5p
48	hsa-miR-155	hsa-miR-1260b
49	hsa-miR-326	hsa-miR-320d
50	hsa-miR-21	hsa-miR-1280
51	hsa-miR-146b	has-let-7a
52	hsa-miR-19a	hsa-miR-16-1-3p
53	hsa-miR-92a	hsa-miR- 34a
54	hsa-miR-550a-3p	hsa-miR-138-2-3p
55	hsa-miR-223-5p	hsa-miR-512-3p
56	hsa-miR-524-3p	hsa-miR-324-3p
57	hsa-miR-32	hsa-miR-564
58	hsa-miR- 125a	hsa-miR-338-5p
59	hsa-miR-146b	hsa-miR-886-3p
60	hsa-miR-200c	hsa-miR-30-3p
61	hsa-miR-505	hsa-miR-149
62	hsa-miR-582	hsa-miR-92
63	hsa-miR-629	hsa-miR-189
64	hsa-miR-1180	hsa-miR-135b
65	hsa-miR-27b	hsa-miR-422
66	hsa-miR-128	hsa-miR-153
67	hsa-miR-340	hsa-miR-7-1-3p
68	hsa-miR-1	hsa-miR-28-5p
69	hsa-miR-200b	hsa-miR-130b
70	hsa-miR-497	hsa-miR-181

No.	UP regulated miRNAs	Down regulated miRNAs
71	hsa-miR-17-5p	hsa-miR-204
72	hsa-miR-376	hsa-miR-320b
73	hsa-miR-126	hsa-miR-369-5p
74	hsa-miR-193	hsa-miR-520
75	hsa-miR-485-3p	hsa-miR-582-5p
76	hsa-miR-486	hsa-miR-644
77	hsa-miR-15	hsa-miR-218
78	hsa-miR- 22	hsa-miR-329
79	hsa-miR- 107	hsa-miR-411-3p
80	hsa-miR- 301	hsa-miR-585
81	hsa-miR-29	hsa-miR-649
82	hsa-miR-148	hsa-miR-103-2
83	hsa-miR-489	hsa-miR-151-5p
84	hsa-miR-29c	hsa-miR-337-3p
85	hsa-miR590-5p	hsa-miR-486-5p
86	hsa-miR-19b	hsa-miR-520g
87	hsa-miR-93	hsa-miR-599
88	hsa-miR-221	hsa-miR-655
89	has-let-7i	hsa-miR-200
90	hsa-miR-106b	hsa-miR-297
91	hsa-miR-19	hsa-miR-340-3p
92	hsa-miR-142-3 p	hsa-miR-515
93	hsa-miR-23	hsa-miR-548c-5p
94	hsa-miR-142-5p	hsa-miR-616-5p
95	hsa-miR-320	hsa-miR-107
96	hsa-miR-146	hsa-miR-25
97	hsa-miR-34	hsa-miR-299-5p
98	hsa-miR-326	hsa-miR-203
99	hsa-miR-27	hsa-miR-23b
100	hsa-miR-199	hsa-miR-139
101	hsa-miR-650	hsa-miR-487b
102	hsa-miR-214	hsa-miR-656
103	hsa-miR-130	hsa-miR-184
104	hsa-miR-338	hsa-miR-922
105	hsa-miR-491	hsa-miR-27-5p
106	hsa-miR-124	hsa-miR-29c-3p
107	hsa-miR-181c	hsa-miR-193-3p
108	hsa-miR -633	hsa-miR-708-5p
109	hsa-miR- 21	hsa-miR-95
110	has-let-7e	hsa-miR-874
111	hsa-miR-16-5p	hsa-miR-29-3p
112	hsa-miR-342-5p	hsa-miR-149-5p
113	hsa-miR-346	hsa-miR-193-5p
114	has-let-7b-5p	hsa-miR-181c-3p
115	hsa-miR-518b	hsa-miR-29b-1-5p
116	hsa-miR-760	hsa-miR-532-5p
117	has-let-7-5p	
118	hsa-miR-191	
119	hsa-miR-383	
120	hsa-miR-551	
121	hsa-miR-598	
122	hsa-miR-132	
123	hsa-miR-125a-5p	
124	hsa-miR-20a-5p	
125	hsa-miR-20b-5p	

Supplementary Table S2: Selected datasets from GEO

GEO Acc. No.	None coding RNA profiling dataset	Transcriptome profiling dataset	Reference
GSE27688		*	(Lutterotti et al., 2012)
GSE27690	*		
GSE46280		*	
GSE46282	*		(Hecker et al., 2013)
GSE46283	*		
GSE16461		*	(Annibali et al., 2011)
GSE17048		*	(Riveros et al., 2010)
GSE17393		*	
GSE43590	*		(Gilli et al., 2010)
GSE43591		*	(Jernås et al., 2013)
GSE17846	*		(Keller et al., 2009)
GSE39643	*		(Butovsky et al., 2012)

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Supplementary Table S3: In silico predicted miRNAs related to MS pathogenicity

miRNAs in relation to MS relevant pathways
hsa-miR-18b
hsa-miR-27b
hsa-miR-138
hsa-miR-126
hsa-miR-599
hsa-miR-326
hsa-miR-150
hsa-miR-34a
hsa-miR-145
hsa-miR-572
hsa-miR-648
hsa-miR-126-5p
hsa-miR-126-3p
hsa-miR-219
hsa-miR-146b
hsa-miR-497
hsa-miR-22
hsa-miR-193a-5p
hsa-miR-193a-3p
hsa-miR-422a
hsa-miR-17-5p
hsa-miR-614
hsa-miR-146b-5p
hsa-miR-146b-3p
hsa-miR-1826
hsa-miR-1

Supplementary Table S4: miRNAs targeting reported genes involved in MS pathogenicity

Gene Name	EntrezID	MicroRNA Name	Pubmed ID
STAT3	6774	hsa-let-7a	20447714
STAT3	6774	hsa-let-7b	19878981
STAT3	6774	hsa-let-7c	20797623
STAT3	6774	hsa-let-7d	20797623
STAT3	6774	hsa-let-7e	20447714
STAT3	6774	hsa-let-7f	19878981
STAT3	6774	hsa-let-7f-1*	20447714
STAT3	6774	hsa-let-7f-2*	20797623
STAT3	6774	hsa-let-7g	19878981
STAT3	6774	hsa-let-7i	19878981
STAT3	6774	hsa-miR-106a	19073166
STAT3	6774	hsa-miR-106b	19559694
STAT3	6774	hsa-miR-124	22696253
STAT3	6774	hsa-miR-125b	21368288
STAT3	6774	hsa-miR-135a	18831788
STAT3	6774	hsa-miR-135b	18831788
IL2RA	3559	hsa-miR-142-3p	20501849
STAT3	6774	hsa-miR-146a	19167348
STAT3	6774	hsa-miR-155	20354188
PTGER4	5734	hsa-miR-16	21081469
STAT3	6774	hsa-miR-17	23059786
CD40	958	hsa-miR-181a	22956783
STAT3	6774	hsa-miR-181b	20797623
STAT3	6774	hsa-miR-18a	21953462
IL7R	3575	hsa-miR-191	19954774
STAT3	6774	hsa-miR-19a	19713220
STAT3	6774	hsa-miR-19b	19713220
STAT3	6774	hsa-miR-203	21536793
STAT3	6774	hsa-miR-204	21761156
STAT3	6774	hsa-miR-205	21330408
STAT3	6774	hsa-miR-20a	20583868
STAT3	6774	hsa-miR-20b	20232316
STAT3	6774	hsa-miR-21	18831788
CD40	958	hsa-miR-210	21388516
CD40	958	hsa-miR-224	19475450
IL2RA	3559	hsa-miR-23a	21149603
IL2RA	3559	hsa-miR-23b	21149603
IL7R	3575	hsa-miR-25	20637509
CD40	958	hsa-miR-26a	20485376
IL2RA	3559	hsa-miR-27a	21149603
CD40	958	hsa-miR-30c	21317924
IL7R	3575	hsa-miR-342-3p	19954774
IL7R	3575	hsa-miR-342-5p	19954774
STAT3	6774	hsa-miR-346	19878981
CD40	958	hsa-miR-486-3p	19475450
CD40	958	hsa-miR-486-5p	19475450
ADAM8	101	hsa-miR-494	21859890
IL7R	3575	hsa-miR-510	19954774
TNFRSF1A	7132	hsa-miR-519d	21703393
ADAM8	101	hsa-miR-548c-3p	21768308
TNFRSF1A	7132	hsa-miR-647	21703393
STAT3	6774	hsa-miR-9	21385897
STAT3	6774	hsa-miR-92a	19390056
STAT3	6774	hsa-miR-93	19073166
STAT3	6774	hsa-miR-96	22414602

Supplementary Table S5: Total obtained 388 miRNAs from data collection after redundancy removal

hsa-miR-155-5p	hsa-miR-1-5p	hsa-miR-30e-3p	hsa-miR-532-5p	hsa-miR-150-5p	hsa-miR-302c-3p	hsa-miR-515-3p	hsa-miR-9-3p
hsa-miR-15a	hsa-miR-16-1	hsa-miR-31-3p	hsa-miR-542-3p	hsa-miR-151-3p	hsa-miR-302c-5p	hsa-miR-515-5p	hsa-miR-942
hsa-miR-15b	hsa-miR-16-2	hsa-miR-3153	hsa-miR-542-5p	hsa-miR-151-5p	hsa-miR-302e	hsa-miR-518b	hsa-miR-943
hsa-let-7-5a	hsa-miR-16-5p	hsa-miR-3178	hsa-miR-548a-3p	hsa-miR-152	hsa-miR-30a-3p	hsa-miR-518e	hsa-miR-95
hsa-let-7a	hsa-miR-17-3p	hsa-miR-32-5p	hsa-miR-548b-3p	hsa-miR-153	hsa-miR-30a-5p	hsa-miR-519e-5p	hsa-miR-96-3p
hsa-let-7b-5p	hsa-miR-17-5p	hsa-miR-320a	hsa-miR-548c-5p	hsa-miR-1537	hsa-miR-30b	hsa-miR-520	hsa-miR-96-5p
hsa-let-7c	hsa-miR-181a	hsa-miR-320b	hsa-miR-548f	hsa-miR-155-3p	hsa-miR-30c	hsa-miR-520g	hsa-miR-98
hsa-let-7e	hsa-miR-181a-2-3p	hsa-miR-320c	hsa-miR-548g	ebv-miR-BART10-5p	hsa-miR-30c-2-3p	hsa-miR-524-3p	hsa-miR-99a
hsa-let-7f	hsa-miR-181b	hsa-miR-320d	hsa-miR-548k	ebv-miR-BART4	hsa-miR-30e-5p	hsa-miR-525-5p	hsa-miR-99b
hsa-let-7g-3p	hsa-miR-181c-5p	hsa-miR-32-3p	hsa-miR-550a-3p	ebv-miR-BART8-3p	kshv-miR-K12-8	hsa-miR-532-3p	kshv-miR-K12-7
hsa-let-7g-5p	hsa-miR-181c-3p	hsa-miR-324-3p	hsa-miR-551				
hsa-let-7i-5p	hsa-miR-182	hsa-miR-324-5p	hsa-miR-556-5p				
hsa-miR-1394	hsa-miR-1826	hsa-miR-326	hsa-miR-564				
hsa-miR-197	hsa-miR-184	hsa-miR-328	hsa-miR-572				
hcmv-miR-UL148D	hsa-miR-185-3p	hsa-miR-329	hsa-miR-574-3p				
hcmv-miR-US25-1	hsa-miR-186-5p	hsa-miR-330-3p	hsa-miR-574-5p				
hsa-let-7d-5p	hsa-miR-187-5p	hsa-miR-331-3p	hsa-miR-578				
hsa-let-7d-3p	hsa-miR-188-3p	hsa-miR-337-3p	hsa-miR-579				
hsa-let-7i-3p	hsa-miR-189	hsa-miR-337-5p	hsa-miR-580				
hsa-miR-301	hsa-miR-18a-3p	hsa-miR-338-5p	hsa-miR-582-5p				
hsa-miR-502-5p	hsa-miR-18b-3p	hsa-miR-339-5p	hsa-miR-584				
hsa-miR-633	hsa-miR-18b-5p	hsa-miR-33a-5p	hsa-miR-585				
hsa-miR-103	hsa-miR-1908	hsa-miR-33a-3p	hsa-miR590-5p				
hsa-miR-103-2	hsa-miR-1909	hsa-miR-340-5p	hsa-miR-592				
hsa-miR-106a	hsa-miR-191	hsa-miR-340-3p	hsa-miR-593-5p				
hsa-miR-106b-3p	hsa-miR-1910	hsa-miR-342-3p	hsa-miR-598				
hsa-miR-106b-5p	hsa-miR-1912	hsa-miR-342-5p	hsa-miR-599				
hsa-miR-107	hsa-miR-192	hsa-miR-346	hsa-miR-601				
hsa-miR-10a	hsa-miR-193a-3p	hsa-miR-34a-3p	hsa-miR-606				
hsa-miR-1178	hsa-miR-193a-5p	hsa-miR-34a-5p	hsa-miR-607				
hsa-miR-1180	hsa-miR-195	hsa-miR-34c-3p	hsa-miR-613				
hsa-miR-1206	hsa-miR-196a	hsa-miR-361-3p	hsa-miR-614				
hsa-miR-1207-5p	hsa-miR-1979	hsa-miR-361-5p	hsa-miR-615-5p				
hsa-miR-1224-5p	hsa-miR-199a-3p	hsa-miR-362-3p	hsa-miR-616-5p				
hsa-miR-1226	hsa-miR-199a-5p	hsa-miR-362-5p	hsa-miR-620				
hsa-miR-1227	hsa-miR-19a	hsa-miR-363	hsa-miR-621				
hsa-miR-1234	hsa-miR-19b	hsa-miR-365	hsa-miR-622				
hsa-miR-124	hsa-miR-200b	hsa-miR-367-3p	hsa-miR-623				
hsa-miR-1251	hsa-miR-200c	hsa-miR-367-5p	hsa-miR-624-5p				
hsa-miR-1254	hsa-miR-202-5p	hsa-miR-369-5p	hsa-miR-625				
hsa-miR-1258	hsa-miR-203	hsa-miR-374a-5p	hsa-miR-627				
hsa-miR-125a-5p	hsa-miR-204	hsa-miR-374a-3p	hsa-miR-628-3p				
hsa-miR-1260	hsa-miR-20a-3p	hsa-miR-374b	hsa-miR-629				
hsa-miR-1260b	hsa-miR-20a-5p	hsa-miR-376	hsa-miR-640				
hsa-miR-126-3p	hsa-miR-20b-3p	hsa-miR-378a-3p	hsa-miR-644				
hsa-miR-126-5p	hsa-miR-20b-5p	hsa-miR-378-5p	hsa-miR-646				
hsa-miR-1266	hsa-miR-210	hsa-miR-379	hsa-miR-648				
hsa-miR-1268	hsa-miR-211	hsa-miR-380-3p	hsa-miR-649				
hsa-miR-1270	hsa-miR-212	hsa-miR-383	hsa-miR-650				
hsa-miR-1271	hsa-miR-21-3p	hsa-miR-411-3p	hsa-miR-651				
hsa-miR-1272	hsa-miR-214	hsa-miR-421	hsa-miR-655				
hsa-miR-1274a	hsa-miR-21-5p	hsa-miR-422a	hsa-miR-656				
hsa-miR-1274b	hsa-miR-216a	hsa-miR-423-3p	hsa-miR-658				
hsa-miR-1275	hsa-miR-216b	hsa-miR-423-5p	hsa-miR-660				
hsa-miR-128	hsa-miR-217	hsa-miR-425	hsa-miR-662				
hsa-miR-1280	hsa-miR-218	hsa-miR-431	hsa-miR-663				
hsa-miR-1283	hsa-miR-219	hsa-miR-449b	hsa-miR-664				
hsa-miR-1299	hsa-miR-22	hsa-miR-450a	hsa-miR-671-5p				
hsa-miR-130	hsa-miR-221	hsa-miR-450b-5p	hsa-miR-671-3p				
hsa-miR-1301	hsa-miR-221-5p	hsa-miR-451	hsa-miR-675				
hsa-miR-130b-3p	hsa-miR-223-3p	hsa-miR-452-3p	hsa-miR-7				
hsa-miR-130b-5p	hsa-miR-223-5p	hsa-miR-454	hsa-miR-708-5p				
hsa-miR-132-3p	hsa-miR-22-3p	hsa-miR-484	hsa-miR-7-1-3p				
hsa-miR-132-5p	hsa-miR-22-5p	hsa-miR-485-3p	hsa-miR-720				
hsa-miR-134	hsa-miR-23a-3p	hsa-miR-486-5p	hsa-miR-744				
hsa-miR-135b	hsa-miR-23a-5p	hsa-miR-487b	hsa-miR-760				
hsa-miR-136-5p	hsa-miR-23b-3p	hsa-miR-488-5p	hsa-miR-765				
hsa-miR-136-3p	hsa-miR-23b-5p	hsa-miR-489	hsa-miR-768				
hsa-miR-137	hsa-miR-24	hsa-miR-490-3p	hsa-miR-770-5p				
hsa-miR-138	hsa-miR-25-3p	hsa-miR-491-3p	hsa-miR-874				
hsa-miR-138-2-3p	hsa-miR-25-5p	hsa-miR-491-5p	hsa-miR-875-5p				
hsa-miR-139	hsa-miR-26a	hsa-miR-493-5p	hsa-miR-876-3p				
hsa-miR-1-3p	hsa-miR-26b	hsa-miR-494	hsa-miR-885-3p				
hsa-miR-140-5p	hsa-miR-27a-3p	hsa-miR-497-3p	hsa-miR-886-3p				
hsa-miR-142-3p	hsa-miR-27a-5p	hsa-miR-497-5p	hsa-miR-886-5p				
hsa-miR-142-5p	hsa-miR-27b-3p	hsa-miR-499-3p	hsa-miR-888-3p				
hsa-miR-145-3p	hsa-miR-27b-5p	hsa-miR-500	hsa-miR-891a				
hsa-miR-145-5p	hsa-miR-28-5p	hsa-miR-501-5p	hsa-miR-9				
hsa-miR-146a-3p	hsa-miR-29-3p	hsa-miR-505	hsa-miR-92a-1-5p				
hsa-miR-146a-5p	hsa-miR-297	hsa-miR-507	hsa-miR-922				
hsa-miR-146b-3p	hsa-miR-299-5p	hsa-miR-508-5p	hsa-miR-923				
hsa-miR-146b-5p	hsa-miR-29b	hsa-miR-509-3-5p	hsa-miR-92-5p				
hsa-miR-147b	hsa-miR-29b-1-5p	hsa-miR-509-5p	hsa-miR-92a-1-3p				
hsa-miR-148a	hsa-miR-29b-2-5p	hsa-miR-510	hsa-miR-92a-2-5p				
hsa-miR-148b	hsa-miR-29c-3p	hsa-miR-512-3p	hsa-miR-92b				
hsa-miR-149-5p	hsa-miR-300	hsa-miR-513a-5p	hsa-miR-93				
hsa-miR-150-3p	hsa-miR-302b	hsa-miR-513b	hsa-miR-939				

Supplementary Table S6: Functional annotation of validated uniquely regulated targets and their corresponding miRNAs

Targets	miRNAs	Pathway annotation
C6orf47	miR-152	hsa04360 [Pathway Title: Axon guidance]
TRAF1	miR-152	hsa04360 [Pathway Title: Axon guidance]
BICD2	miR-142-3p	hsa04360 [Pathway Title: Axon guidance]
ZNF397	miR-181a	hsa04360 [Pathway Title: Axon guidance]
ITGA5	miR-124-1	hsa04360 [Pathway Title: Axon guidance]; hsa05133 [Pathway Title: Pertussis]; hsa04666 [Pathway Title: Fc gamma R-mediated phagocytosis]; hsa04810 [Pathway Title: Regulation of actin cytoskeleton]
TRIM27	miR-103-2	hsa04060 [Pathway Title: Cytokine-cytokine receptor interaction]; hsa04390 [Pathway Title: Hippo signaling pathway]; hsa04350 [Pathway Title: TGF-beta signaling pathway]
SH2D3C	miR-16	hsa03013 [Pathway Title: RNA transport]
NFKB1A	miR-16	hsa03013 [Pathway Title: RNA transport]
ASB6	miR-124-1	hsa03013 [Pathway Title: RNA transport]
HNRNPAB	miR-98	hsa03013 [Pathway Title: RNA transport]; hsa05416 [Pathway Title: Viral myocarditis]
VPRBP	miR-16	hsa04120 [Pathway Title: Ubiquitin mediated proteolysis]
ZNF678	miR-28-5p	hsa04120 [Pathway Title: Ubiquitin mediated proteolysis]
KDM5A	miR-339-5p	hsa04120 [Pathway Title: Ubiquitin mediated proteolysis]
CRKL	miR-34c-3p	hsa04120 [Pathway Title: Ubiquitin mediated proteolysis]; hsa03420 [Pathway Title: Nucleotide excision repair]
NUP62	miR-9	hsa04110 [Pathway Title: Cell cycle]
TOLLIP	miR-181a	hsa04110 [Pathway Title: Cell cycle]; hsa04010 [Pathway Title: MAPK signaling pathway]; hsa04115 [Pathway Title: p53 signaling pathway]
TNFRSF1A	miR-494	hsa04110 [Pathway Title: Cell cycle]; hsa04115 [Pathway Title: p53 signaling pathway]; hsa04914 [Pathway Title: Progesterone-mediated oocyte maturation]; hsa04114 [Pathway Title: Oocyte meiosis]
ZNF775	miR-9	hsa04110 [Pathway Title: Cell cycle]; hsa04120 [Pathway Title: Ubiquitin mediated proteolysis]; hsa04914 [Pathway Title: Progesterone-mediated oocyte maturation]
RBBP6	miR-124-1	hsa04390 [Pathway Title: Hippo signaling pathway]
TNFAIP1	miR-16	hsa04390 [Pathway Title: Hippo signaling pathway]; hsa04630 [Pathway Title: Jak-STAT signaling pathway]; hsa04310 [Pathway Title: Wnt signaling pathway]; hsa04510 [Pathway Title: Focal adhesion]; hsa05166 [Pathway Title: HTLV-I infection]; hsa04115 [Pathway Title: p53 signaling pathway]; hsa05162 [Pathway Title: Measles]; hsa04151 [Pathway Title: PI3K-Akt signaling pathway]; hsa04110 [Pathway Title: Cell cycle]; hsa05203 [Pathway Title: Viral carcinogenesis]
MAP3K12	miR-138-1	hsa04514 [Pathway Title: Cell adhesion molecules (CAMs)]
CXCR3	miR-29b	hsa04514 [Pathway Title: Cell adhesion molecules (CAMs)]
SNAI3	miR-106a	hsa04514 [Pathway Title: Cell adhesion molecules (CAMs)]; hsa05144 [Pathway Title: Malaria]; hsa05205 [Pathway Title: Proteoglycans in cancer]; hsa04512 [Pathway Title: ECM-receptor interaction]
GIMAP1	miR-125a-3pa-5p	hsa05200 [Pathway Title: Pathways in cancer]; hsa05217 [Pathway Title: Basal cell carcinoma]; hsa04340 [Pathway Title: Hedgehog signaling pathway]
PLEC	miR-9	hsa05200 [Pathway Title: Pathways in cancer]; hsa05223 [Pathway Title: Non-small cell lung cancer]; hsa04390 [Pathway Title: Hippo signaling pathway]; hsa04014 [Pathway Title: Ras signaling pathway]; hsa05206 [Pathway Title: MicroRNAs in cancer]; hsa05219 [Pathway Title: Bladder cancer]
NACA	miR-16	hsa05206 [Pathway Title: MicroRNAs in cancer]
PEL1I	miR-181b	hsa05206 [Pathway Title: MicroRNAs in cancer]
MGC2752	Let-7e	hsa05206 [Pathway Title: MicroRNAs in cancer]; hsa04151 [Pathway Title: PI3K-Akt signaling pathway]; hsa04810 [Pathway Title: Regulation of actin cytoskeleton]; hsa05166 [Pathway Title: HTLV-I infection]; hsa05215 [Pathway Title: Prostate cancer]; hsa04014 [Pathway Title: Ras signaling pathway]; hsa05200 [Pathway Title: Pathways in cancer]; hsa05218 [Pathway Title: Melanoma]; hsa04010 [Pathway Title: MAPK signaling pathway]; hsa04015 [Pathway Title: Rap1 signaling pathway]; hsa04540 [Pathway Title: Gap junction]; hsa05202 [Pathway Title: Transcriptional misregulation in cancer]; hsa04510 [Pathway Title: Focal adhesion]; hsa05214 [Pathway Title: Glioma]; hsa04060 [Pathway Title: Cytokine-cytokine receptor interaction]
GOPC	miR-663	hsa04014 [Pathway Title: Ras signaling pathway]; hsa04015 [Pathway Title: Rap1 signaling pathway]
PP1L3//CLK1		miR-494
ZFYVE27	miR-197	hsa04014 [Pathway Title: Ras signaling pathway]; hsa04730 [Pathway Title: Long-term depression]; hsa05414 [Pathway Title: Dilated cardiomyopathy]; hsa05218 [Pathway Title: Melanoma]; hsa04151 [Pathway Title: PI3K-Akt signaling pathway]; hsa04510 [Pathway Title: Focal adhesion]; hsa05202 [Pathway Title: Transcriptional misregulation in cancer]; hsa04015 [Pathway Title: Rap1 signaling pathway]; hsa04913 [Pathway Title: Ovarian steroidogenesis]; hsa04914 [Pathway Title: Progesterone-mediated oocyte maturation]; hsa05205 [Pathway Title: Proteoglycans in cancer]; hsa05215 [Pathway Title: Prostate cancer]; hsa04114 [Pathway Title: Oocyte meiosis]; hsa04150 [Pathway Title: mTOR signaling pathway]; hsa04066 [Pathway Title: HIF-1 signaling pathway]; hsa04115 [Pathway Title: p53 signaling pathway]; hsa04960 [Pathway Title: Aldosterone-regulated sodium reabsorption]; hsa05410 [Pathway Title: Hypertrophic cardiomyopathy (HCM)]; hsa05200 [Pathway Title: Pathways in cancer]; hsa05214 [Pathway Title: Glioma]
SP1	miR-124-1	hsa04014 [Pathway Title: Ras signaling pathway]; hsa05200 [Pathway Title: Pathways in cancer]; hsa04010 [Pathway Title: MAPK signaling pathway]; hsa05223 [Pathway Title: Non-small cell lung cancer]
S1PR4	miR-181a	hsa04014 [Pathway Title: Ras signaling pathway]; hsa05200 [Pathway Title: Pathways in cancer]; hsa04015 [Pathway Title: Rap1 signaling pathway]; hsa05212 [Pathway Title: Pancreatic cancer]
TMEM173	miR-16	hsa04141 [Pathway Title: Protein processing in endoplasmic reticulum]; hsa03420 [Pathway Title: Nucleotide excision repair]
GPR132	miR-34c-3p	hsa04310 [Pathway Title: Wnt signaling pathway]
ILK	miR-125a-3pa-5p	hsa04310 [Pathway Title: Wnt signaling pathway]
ALG12	miR-16	hsa04010 [Pathway Title: MAPK signaling pathway]
POLDIP3	miR-124-1	hsa04010 [Pathway Title: MAPK signaling pathway]
CNNM3	miR-330-3p	hsa04080 [Pathway Title: Neuroactive ligand-receptor interaction]; hsa04261 [Pathway Title: Adrenergic signaling in cardiomyocytes]; hsa04614 [Pathway Title: Renin-angiotensin system]
ZNF200	miR-125a-3pa-5p	hsa04144 [Pathway Title: Endocytosis]; hsa04020 [Pathway Title: Calcium signaling pathway]; hsa04012 [Pathway Title: ErbB signaling pathway]; hsa05206 [Pathway Title: MicroRNAs in cancer]; hsa05205 [Pathway Title: Proteoglycans in cancer]
SNTB2	miR-9	hsa04151 [Pathway Title: PI3K-Akt signaling pathway]; hsa04380 [Pathway Title: Osteoclast differentiation]; hsa04650 [Pathway Title: Natural killer cell mediated cytotoxicity]; hsa05152 [Pathway Title: Tuberculosis]; hsa05169 [Pathway Title: Epstein-Barr virus infection]; hsa04064 [Pathway Title: NF-kappa B signaling pathway]; hsa05203 [Pathway Title: Viral carcinogenesis]; hsa04664 [Pathway Title: Fc epsilon RI signaling pathway]; hsa04662 [Pathway Title: B cell receptor signaling pathway]; hsa04666 [Pathway Title: Fc gamma R-mediated phagocytosis]
PPP1R18	miR-125a-3pa-5p	hsa04512 [Pathway Title: ECM-receptor interaction]; hsa05161 [Pathway Title: Hepatitis B]; hsa05205 [Pathway Title: Proteoglycans in cancer]
FBXL14	miR-16	hsa04910 [Pathway Title: Insulin signaling pathway]; hsa00500 [Pathway Title: Starch and sucrose metabolism]; hsa04151 [Pathway Title: PI3K-Akt signaling pathway]
UBE2L3	miR-210	hsa04910 [Pathway Title: Insulin signaling pathway]; hsa04520 [Pathway Title: Adherens junction]
TMEM115	miR-24	hsa04910 [Pathway Title: Insulin signaling pathway]; hsa05016 [Pathway Title: Huntington's disease]; hsa04920 [Pathway Title: Adipocytokine signaling pathway]
ZNF641	miR-124-1	hsa00532 [Pathway Title: Glycosaminoglycan biosynthesis - chondroitin sulfate / dermatan sulfate]
PKNOX1	miR-124-1	hsa00532 [Pathway Title: Glycosaminoglycan biosynthesis - chondroitin sulfate / dermatan sulfate]
TP53RK	miR-16	hsa00561 [Pathway Title: Glycerolipid metabolism]; hsa05010 [Pathway Title: Alzheimer's disease]; hsa03320 [Pathway Title: PPAR signaling pathway]
SPRYD3	miR-16	hsa04130 [Pathway Title: SNARE interactions in vesicular transport]
CXCR7	miR-16	hsa04130 [Pathway Title: SNARE interactions in vesicular transport]; hsa04145 [Pathway Title: Phagosome]
TMCO4	miR-212	hsa04668 [Pathway Title: TNF signaling pathway]; hsa04722 [Pathway Title: Neurotrophin signaling pathway]; hsa04010 [Pathway Title: MAPK signaling pathway]; hsa05206 [Pathway Title: MicroRNAs in cancer]; hsa05219 [Pathway Title: Bladder cancer]; hsa04261 [Pathway Title: Adrenergic signaling in cardiomyocytes]; hsa04713 [Pathway Title: Circadian entrainment]

Targets	miRNAs	Pathway annotation
FAM222B	miR-16	hsa04668 [Pathway Title: TNF signaling pathway]; hsa05140 [Pathway Title: Leishmaniasis]; hsa05142 [Pathway Title: Chagas disease (American trypanosomiasis)]; hsa05160 [Pathway Title: Hepatitis C]; hsa04064 [Pathway Title: NF-kappa B signaling pathway]; hsa04722 [Pathway Title: Neurotrophin signaling pathway]; hsa04920 [Pathway Title: Adipocytokine signaling pathway]; hsa05169 [Pathway Title: Epstein-Barr virus infection]; hsa05220 [Pathway Title: Chronic myeloid leukemia]; hsa04660 [Pathway Title: T cell receptor signaling pathway]; hsa05120 [Pathway Title: Epithelial cell signaling in Helicobacter pylori infection]; hsa05134 [Pathway Title: Legionellosis]; hsa05203 [Pathway Title: Viral carcinogenesis]; hsa04622 [Pathway Title: RIG-I-like receptor signaling pathway]; hsa05161 [Pathway Title: Hepatitis B]; hsa05164 [Pathway Title: Influenza A]; hsa05215 [Pathway Title: Prostate cancer]; hsa04662 [Pathway Title: B cell receptor signaling pathway]; hsa05145 [Pathway Title: Toxoplasmosis]; hsa05162 [Pathway Title: Measles]; hsa05222 [Pathway Title: Small cell lung cancer]; hsa04210 [Pathway Title: Apoptosis]; hsa04623 [Pathway Title: Cytosolic DNA-sensing pathway]; hsa05168 [Pathway Title: Herpes simplex infection]; hsa04062 [Pathway Title: Chemokine signaling pathway]; hsa04380 [Pathway Title: Osteoclast differentiation]; hsa04621 [Pathway Title: NOD-like receptor signaling pathway]; hsa05131 [Pathway Title: Shigellosis]; hsa04620 [Pathway Title: Toll-like receptor signaling pathway]; hsa05166 [Pathway Title: HTLV-I infection]; hsa05200 [Pathway Title: Pathways in cancer]
TP53I13	miR-218	hsa04810 [Pathway Title: Regulation of actin cytoskeleton]; hsa04510 [Pathway Title: Focal adhesion]; hsa04012 [Pathway Title: ErbB signaling pathway]; hsa05100 [Pathway Title: Bacterial invasion of epithelial cells]; hsa04015 [Pathway Title: Rap1 signaling pathway]; hsa04666 [Pathway Title: Fc gamma R-mediated phagocytosis]; hsa04062 [Pathway Title: Chemokine signaling pathway]; hsa05200 [Pathway Title: Pathways in cancer]; hsa04722 [Pathway Title: Neurotrophin signaling pathway]; hsa04910 [Pathway Title: Insulin signaling pathway]; hsa05131 [Pathway Title: Shigellosis]; hsa05206 [Pathway Title: MicroRNAs in cancer]; hsa05220 [Pathway Title: Chronic myeloid leukemia]; hsa04010 [Pathway Title: MAPK signaling pathway]; hsa05211 [Pathway Title: Renal cell carcinoma]
EEF2K	miR-9	hsa04810 [Pathway Title: Regulation of actin cytoskeleton]; hsa05206 [Pathway Title: MicroRNAs in cancer]; hsa04310 [Pathway Title: Wnt signaling pathway]; hsa04390 [Pathway Title: Hippo signaling pathway]; hsa05166 [Pathway Title: HTLV-I infection]; hsa05200 [Pathway Title: Pathways in cancer]; hsa05210 [Pathway Title: Colorectal cancer]; hsa05213 [Pathway Title: Endometrial cancer]; hsa05217 [Pathway Title: Basal cell carcinoma]
MADD	miR-124-1	hsa00230 [Pathway Title: Purine metabolism]; hsa01100 [Pathway Title: Metabolic pathways]
SGK223	miR-320b	hsa00230 [Pathway Title: Purine metabolism]; hsa04623 [Pathway Title: Cytosolic DNA-sensing pathway]; hsa00240 [Pathway Title: Pyrimidine metabolism]; hsa01100 [Pathway Title: Metabolic pathways]; hsa03020 [Pathway Title: RNA polymerase]; hsa05169 [Pathway Title: Epstein-Barr virus infection]
BFAR	miR-16	hsa00564 [Pathway Title: Glycerophospholipid metabolism]
CCDC130	miR-24	hsa00564 [Pathway Title: Glycerophospholipid metabolism]
BRD3	miR-210	hsa00564 [Pathway Title: Glycerophospholipid metabolism]
ZNF526	miR-204	hsa00564 [Pathway Title: Glycerophospholipid metabolism]; hsa01100 [Pathway Title: Metabolic pathways]
KIAA0141	miR-124-1	hsa03018 [Pathway Title: RNA degradation]
GDPD3	Let-7f-1	hsa04015 [Pathway Title: Rap1 signaling pathway]; hsa04360 [Pathway Title: Axon guidance]; hsa04722 [Pathway Title: Neurotrophin signaling pathway]; hsa05120 [Pathway Title: Epithelial cell signaling in Helicobacter pylori infection]; hsa05211 [Pathway Title: Renal cell carcinoma]; hsa05212 [Pathway Title: Pancreatic cancer]; hsa04014 [Pathway Title: Ras signaling pathway]; hsa04520 [Pathway Title: Adherens junction]; hsa04660 [Pathway Title: T cell receptor signaling pathway]; hsa04932 [Pathway Title: Non-alcoholic fatty liver disease (NAFLD)]; hsa05100 [Pathway Title: Bacterial invasion of epithelial cells]; hsa05131 [Pathway Title: Shigellosis]; hsa04370 [Pathway Title: VEGF signaling pathway]; hsa04510 [Pathway Title: Focal adhesion]; hsa04530 [Pathway Title: Tight junction]; hsa05205 [Pathway Title: Proteoglycans in cancer]; hsa04666 [Pathway Title: Fc gamma R-mediated phagocytosis]; hsa04810 [Pathway Title: Regulation of actin cytoskeleton]; hsa04912 [Pathway Title: GnRH signaling pathway]; hsa05200 [Pathway Title: Pathways in cancer]; hsa04670 [Pathway Title: Leukocyte transendothelial migration]; hsa05130 [Pathway Title: Pathogenic Escherichia coli infection]; hsa04010 [Pathway Title: MAPK signaling pathway]; hsa04062 [Pathway Title: Chemokine signaling pathway]; hsa04144 [Pathway Title: Endocytosis]; hsa05132 [Pathway Title: Salmonella infection]; hsa05203 [Pathway Title: Viral carcinogenesis]
SEC24C	miR-124-1	hsa04015 [Pathway Title: Rap1 signaling pathway]; hsa04510 [Pathway Title: Focal adhesion]; hsa04666 [Pathway Title: Fc gamma R-mediated phagocytosis]; hsa05210 [Pathway Title: Colorectal cancer]; hsa05203 [Pathway Title: Viral carcinogenesis]; hsa05014 [Pathway Title: Amyotrophic lateral sclerosis (ALS)]; hsa05131 [Pathway Title: Shigellosis]; hsa04062 [Pathway Title: Chemokine signaling pathway]; hsa04360 [Pathway Title: Axon guidance]; hsa04370 [Pathway Title: VEGF signaling pathway]; hsa04520 [Pathway Title: Adherens junction]; hsa04670 [Pathway Title: Leukocyte transendothelial migration]; hsa05200 [Pathway Title: Pathways in cancer]; hsa05212 [Pathway Title: Pancreatic cancer]; hsa04010 [Pathway Title: MAPK signaling pathway]; hsa04145 [Pathway Title: Phagosome]; hsa04650 [Pathway Title: Natural killer cell mediated cytotoxicity]; hsa04664 [Pathway Title: Fc epsilon RI signaling pathway]; hsa04722 [Pathway Title: Neurotrophin signaling pathway]; hsa05416 [Pathway Title: Viral myocarditis]; hsa04972 [Pathway Title: Pancreatic secretion]; hsa05205 [Pathway Title: Proteoglycans in cancer]; hsa05211 [Pathway Title: Renal cell carcinoma]; hsa04014 [Pathway Title: Ras signaling pathway]; hsa04380 [Pathway Title: Osteoclast differentiation]; hsa04662 [Pathway Title: B cell receptor signaling pathway]; hsa04932 [Pathway Title: Non-alcoholic fatty liver disease (NAFLD)]; hsa05120 [Pathway Title: Epithelial cell signaling in Helicobacter pylori infection]; hsa05132 [Pathway Title: Salmonella infection]; hsa04151 [Pathway Title: PI3K-Akt signaling pathway]; hsa04310 [Pathway Title: Wnt signaling pathway]; hsa04620 [Pathway Title: Toll-like receptor signaling pathway]; hsa04810 [Pathway Title: Regulation of actin cytoskeleton]; hsa05100 [Pathway Title: Bacterial invasion of epithelial cells]
CDC42	miR-451	hsa04150 [Pathway Title: mTOR signaling pathway]
STK38	miR-128-1	hsa04150 [Pathway Title: mTOR signaling pathway]; hsa04620 [Pathway Title: Toll-like receptor signaling pathway]; hsa04664 [Pathway Title: Fc epsilon RI signaling pathway]; hsa04915 [Pathway Title: Estrogen signaling pathway]; hsa04960 [Pathway Title: Aldosterone-regulated sodium reabsorption]; hsa04973 [Pathway Title: Carbohydrate digestion and absorption]; hsa05100 [Pathway Title: Bacterial invasion of epithelial cells]; hsa05162 [Pathway Title: Measles]; hsa05206 [Pathway Title: MicroRNAs in cancer]; hsa04012 [Pathway Title: ErbB signaling pathway]; hsa04015 [Pathway Title: Rap1 signaling pathway]; hsa04666 [Pathway Title: Fc gamma R-mediated phagocytosis]; hsa04722 [Pathway Title: Neurotrophin signaling pathway]; hsa04910 [Pathway Title: Insulin signaling pathway]; hsa05160 [Pathway Title: Hepatitis C]; hsa05161 [Pathway Title: Hepatitis B]; hsa05212 [Pathway Title: Pancreatic cancer]; hsa05218 [Pathway Title: Melanoma]; hsa04380 [Pathway Title: Osteoclast differentiation]; hsa04650 [Pathway Title: Natural killer cell mediated cytotoxicity]; hsa04662 [Pathway Title: B cell receptor signaling pathway]; hsa05166 [Pathway Title: HTLV-I infection]; hsa05210 [Pathway Title: Colorectal cancer]; hsa04014 [Pathway Title: Ras signaling pathway]; hsa04151 [Pathway Title: PI3K-Akt signaling pathway]; hsa04261 [Pathway Title: Adrenergic signaling in cardiomyocytes]; hsa04670 [Pathway Title: Leukocyte transendothelial migration]; hsa04930 [Pathway Title: Type II diabetes mellitus]; hsa05142 [Pathway Title: Chagas disease (American trypanosomiasis)]; hsa05146 [Pathway Title: Amoebiasis]; hsa05164 [Pathway Title: Influenza A]; hsa05169 [Pathway Title: Epstein-Barr virus infection]; hsa05203 [Pathway Title: Viral carcinogenesis]; hsa05214 [Pathway Title: Glioma]; hsa05220 [Pathway Title: Chronic myeloid leukemia]; hsa05221 [Pathway Title: Acute myeloid leukemia]; hsa04070 [Pathway Title: Phosphatidylinositol signaling system]; hsa04510 [Pathway Title: Focal adhesion]; hsa04810 [Pathway Title: Regulation of actin cytoskeleton]; hsa05213 [Pathway Title: Endometrial cancer]; hsa05215 [Pathway Title: Prostate cancer]; hsa04062 [Pathway Title: Chemokine signaling pathway]; hsa04066 [Pathway Title: HIF-1 signaling pathway]; hsa05205 [Pathway Title: Proteoglycans in cancer]; hsa05222 [Pathway Title: Small cell lung cancer]; hsa05223 [Pathway Title: Non-small cell lung cancer]; hsa04210 [Pathway Title: Apoptosis]; hsa04914 [Pathway Title: Progesterone-mediated oocyte maturation]; hsa04917 [Pathway Title: Prolactin signaling pathway]; hsa05200 [Pathway Title: Pathways in cancer]; hsa04370 [Pathway Title: VEGF signaling pathway]; hsa04630 [Pathway Title: Jak-STAT signaling pathway]; hsa04660 [Pathway Title: T cell receptor signaling pathway]; hsa04668 [Pathway Title: TNF signaling pathway]; hsa04725 [Pathway Title: Cholinergic synapse]; hsa04932 [Pathway Title: Non-alcoholic fatty liver disease (NAFLD)]; hsa05145 [Pathway Title: Toxoplasmosis]; hsa05211 [Pathway Title: Renal cell carcinoma]
DCAF12	Let-7c	hsa04150 [Pathway Title: mTOR signaling pathway]; hsa05206 [Pathway Title: MicroRNAs in cancer]; hsa04151 [Pathway Title: PI3K-Akt signaling pathway]
TRIM41	miR-494	hsa04510 [Pathway Title: Focal adhesion]; hsa04650 [Pathway Title: Natural killer cell mediated cytotoxicity]; hsa04722 [Pathway Title: Neurotrophin signaling pathway]; hsa04910 [Pathway Title: Insulin signaling pathway]; hsa05166 [Pathway Title: HTLV-I infection]; hsa05211 [Pathway Title: Renal cell carcinoma]; hsa05216 [Pathway Title: Thyroid cancer]; hsa04014 [Pathway Title: Ras signaling pathway]; hsa04370 [Pathway Title: VEGF signaling pathway]; hsa04662 [Pathway Title: B cell receptor signaling pathway]; hsa04664 [Pathway Title: Fc epsilon RI signaling pathway]; hsa04730 [Pathway Title: Long-term depression]; hsa04917 [Pathway Title: Prolactin signaling pathway]; hsa04010 [Pathway Title: MAPK signaling pathway]; hsa04530 [Pathway Title: Tight junction]; hsa04660 [Pathway Title: T cell receptor signaling pathway]; hsa04912 [Pathway Title: GnRH signaling pathway]; hsa04144 [Pathway Title: Endocytosis]; hsa04916 [Pathway Title: Melanogenesis]; hsa05161 [Pathway Title: Hepatitis B]; hsa05206 [Pathway Title: MicroRNAs in cancer]; hsa05218 [Pathway Title: Melanoma]; hsa05219 [Pathway Title: Bladder cancer]; hsa05220 [Pathway Title: Chronic myeloid leukemia]; hsa04015 [Pathway Title: Rap1 signaling pathway]; hsa04720 [Pathway Title: Long-term potentiation]; hsa04725 [Pathway Title: Cholinergic synapse]; hsa05214 [Pathway Title: Glioma]; hsa05223 [Pathway Title: Non-small cell lung cancer]; hsa04012 [Pathway Title: ErbB signaling pathway]; hsa04062 [Pathway Title: Chemokine signaling pathway]; hsa04360 [Pathway Title: Axon guidance]; hsa04540 [Pathway Title: Gap junction]; hsa04810 [Pathway Title: Regulation of actin cytoskeleton]; hsa05160 [Pathway Title: Hepatitis C]; hsa05203 [Pathway Title: Viral carcinogenesis]; hsa05213 [Pathway Title: Endometrial cancer]; hsa04151 [Pathway Title: PI3K-Akt signaling pathway]; hsa04726 [Pathway Title: Serotonergic synapse]; hsa05205 [Pathway Title: Proteoglycans in cancer]; hsa05221 [Pathway Title: Acute myeloid leukemia]; hsa04915 [Pathway Title: Estrogen signaling pathway]; hsa05034 [Pathway Title: Alcoholism]; hsa05200 [Pathway Title: Pathways in cancer]; hsa05215 [Pathway Title: Prostate cancer]
INPP4A	miR-196a	hsa04510 [Pathway Title: Focal adhesion]; hsa04720 [Pathway Title: Long-term potentiation]; hsa04015 [Pathway Title: Rap1 signaling pathway]; hsa04010 [Pathway Title: MAPK signaling pathway]; hsa04014 [Pathway Title: Ras signaling pathway]; hsa04670 [Pathway Title: Leukocyte transendothelial migration]; hsa04722 [Pathway Title: Neurotrophin signaling pathway]; hsa04972 [Pathway Title: Pancreatic secretion]; hsa04062 [Pathway Title: Chemokine signaling pathway]; hsa05211 [Pathway Title: Renal cell carcinoma]

Targets	miRNAs	Pathway annotation
AKNA	miR-24	hsa04510 [Pathway Title: Focal adhesion]; hsa05215 [Pathway Title: Prostate cancer]; hsa05200 [Pathway Title: Pathways in cancer]; hsa04151 [Pathway Title: PI3K-Akt signaling pathway]; hsa04540 [Pathway Title: Gap junction]; hsa04810 [Pathway Title: Regulation of actin cytoskeleton]; hsa05211 [Pathway Title: Renal cell carcinoma]; hsa05218 [Pathway Title: Melanoma]; hsa04015 [Pathway Title: Rap1 signaling pathway]; hsa05166 [Pathway Title: HTLV-1 infection]; hsa04010 [Pathway Title: MAPK signaling pathway]; hsa04014 [Pathway Title: Ras signaling pathway]; hsa05214 [Pathway Title: Glioma]; hsa04060 [Pathway Title: Cytokine-cytokine receptor interaction]; hsa05206 [Pathway Title: MicroRNAs in cancer]
TBC1D22A	miR-485-3p	hsa05166 [Pathway Title: HTLV-1 infection]; hsa05152 [Pathway Title: Tuberculosis]; hsa04612 [Pathway Title: Antigen processing and presentation]
ZNF174	miR-216b	hsa04064 [Pathway Title: NF-kappa B signaling pathway]; hsa03008 [Pathway Title: Ribosome biogenesis in eukaryotes]; hsa05168 [Pathway Title: Herpes simplex infection]; hsa04520 [Pathway Title: Adherens junction]; hsa04530 [Pathway Title: Tight junction]; hsa05169 [Pathway Title: Epstein-Barr virus infection]; hsa04310 [Pathway Title: Wnt signaling pathway]; hsa05162 [Pathway Title: Measles]
CTBS	miR-485-3p	hsa04630 [Pathway Title: Jak-STAT signaling pathway]
NDUFV3	miR-137	hsa04727 [Pathway Title: GABAergic synapse]; hsa04010 [Pathway Title: MAPK signaling pathway]; hsa04725 [Pathway Title: Cholinergic synapse]; hsa05031 [Pathway Title: Amphetamine addiction]; hsa05412 [Pathway Title: Arrhythmogenic right ventricular cardiomyopathy (ARVC)]; hsa05010 [Pathway Title: Alzheimer's disease]; hsa04720 [Pathway Title: Long-term potentiation]; hsa04724 [Pathway Title: Glutamatergic synapse]; hsa05410 [Pathway Title: Hypertrophic cardiomyopathy (HCM)]; hsa05414 [Pathway Title: Dilated cardiomyopathy]; hsa04020 [Pathway Title: Calcium signaling pathway]; hsa04270 [Pathway Title: Vascular smooth muscle contraction]; hsa04713 [Pathway Title: Circadian entrainment]; hsa04911 [Pathway Title: Insulin secretion]; hsa04261 [Pathway Title: Adrenergic signaling in cardiomyocytes]; hsa04723 [Pathway Title: Retrograde endocannabinoid signaling]; hsa04728 [Pathway Title: Dopaminergic synapse]; hsa04260 [Pathway Title: Cardiac muscle contraction]; hsa04726 [Pathway Title: Serotonergic synapse]; hsa04912 [Pathway Title: GnRH signaling pathway]; hsa04930 [Pathway Title: Type II diabetes mellitus]
MTMR11	miR-16	hsa04961 [Pathway Title: Endocrine and other factor-regulated calcium reabsorption]; hsa04144 [Pathway Title: Endocytosis]; hsa05016 [Pathway Title: Huntington's disease]; hsa04721 [Pathway Title: Synaptic vesicle cycle]
RREB1	miR-124-1	hsa04961 [Pathway Title: Endocrine and other factor-regulated calcium reabsorption]; hsa05100 [Pathway Title: Bacterial invasion of epithelial cells]; hsa04144 [Pathway Title: Endocytosis]; hsa04721 [Pathway Title: Synaptic vesicle cycle]; hsa04666 [Pathway Title: Fc gamma R-mediated phagocytosis]
ZNF639	miR-125a-3pa-5p	hsa04976 [Pathway Title: Bile secretion]; hsa04913 [Pathway Title: Ovarian steroidogenesis]; hsa04975 [Pathway Title: Fat digestion and absorption]; hsa04145 [Pathway Title: Phagosome]; hsa04977 [Pathway Title: Vitamin digestion and absorption]; hsa05160 [Pathway Title: Hepatitis C]
VCP	miR-320b	hsa04976 [Pathway Title: Bile secretion]; hsa04962 [Pathway Title: Vasopressin-regulated water reabsorption]
C3orf38	miR-137	hsa05034 [Pathway Title: Alcoholism]; hsa05203 [Pathway Title: Viral carcinogenesis]
RAD23B	miR-128-1-1	hsa05034 [Pathway Title: Alcoholism]; hsa05322 [Pathway Title: Systemic lupus erythematosus]
IBTK	miR-10a	hsa01040 [Pathway Title: Biosynthesis of unsaturated fatty acids]; hsa03320 [Pathway Title: PPAR signaling pathway]; hsa01212 [Pathway Title: Fatty acid metabolism]
FBXO22	miR-28-5p	hsa04062 [Pathway Title: Chemokine signaling pathway]; hsa05145 [Pathway Title: Toxoplasmosis]; hsa04144 [Pathway Title: Endocytosis]; hsa05203 [Pathway Title: Viral carcinogenesis]; hsa04060 [Pathway Title: Cytokine-cytokine receptor interaction]
PLEKHF2	miR-10a	hsa04114 [Pathway Title: Oocyte meiosis]; hsa04340 [Pathway Title: Hedgehog signaling pathway]; hsa04710 [Pathway Title: Circadian rhythm]; hsa05131 [Pathway Title: Shigellosis]; hsa04120 [Pathway Title: Ubiquitin mediated proteolysis]; hsa04310 [Pathway Title: Wnt signaling pathway]; hsa04390 [Pathway Title: Hippo signaling pathway]
MCM3AP	miR-124-1	hsa04725 [Pathway Title: Cholinergic synapse]; hsa05145 [Pathway Title: Toxoplasmosis]; hsa05162 [Pathway Title: Measles]; hsa05164 [Pathway Title: Influenza A]; hsa04151 [Pathway Title: PI3K-Akt signaling pathway]; hsa04630 [Pathway Title: Jak-STAT signaling pathway]; hsa04917 [Pathway Title: Prolactin signaling pathway]; hsa04920 [Pathway Title: Adipocytokine signaling pathway]; hsa04062 [Pathway Title: Chemokine signaling pathway]; hsa05140 [Pathway Title: Leishmaniasis]; hsa05168 [Pathway Title: Herpes simplex infection]; hsa05152 [Pathway Title: Tuberculosis]
NPTN-IT1	miR-124-1	hsa05020 [Pathway Title: Prion diseases]; hsa04514 [Pathway Title: Cell adhesion molecules (CAMs)]
C7orf26	miR-124-1	hsa05322 [Pathway Title: Systemic lupus erythematosus]; hsa05202 [Pathway Title: Transcriptional misregulation in cancer]; hsa05034 [Pathway Title: Alcoholism]
L3MBTL1	miR-124-1	hsa00062 [Pathway Title: Fatty acid elongation]
TRIM8	miR-16	hsa00270 [Pathway Title: Cysteine and methionine metabolism]; hsa01230 [Pathway Title: Biosynthesis of amino acids]; hsa01100 [Pathway Title: Metabolic pathways]
USP20	miR-124-1	hsa04115 [Pathway Title: p53 signaling pathway]; hsa05206 [Pathway Title: MicroRNAs in cancer]
PEX11B	miR-16	hsa04340 [Pathway Title: Hedgehog signaling pathway]; hsa04540 [Pathway Title: Gap junction]; hsa04710 [Pathway Title: Circadian rhythm]; hsa04390 [Pathway Title: Hippo signaling pathway]
S100PBP	miR-34c-3p	hsa04350 [Pathway Title: TGF-beta signaling pathway]
MIRLET7D	miR-886-3p	hsa04660 [Pathway Title: T cell receptor signaling pathway]; hsa04514 [Pathway Title: Cell adhesion molecules (CAMs)]; hsa05323 [Pathway Title: Rheumatoid arthritis]; hsa05320 [Pathway Title: Autoimmune thyroid disease]
ZHX2	miR-124-1	hsa04660 [Pathway Title: T cell receptor signaling pathway]; hsa04662 [Pathway Title: B cell receptor signaling pathway]; hsa04010 [Pathway Title: MAPK signaling pathway]; hsa04310 [Pathway Title: Wnt signaling pathway]; hsa04380 [Pathway Title: Osteoclast differentiation]; hsa05166 [Pathway Title: HTLV-1 infection]; hsa05321 [Pathway Title: Inflammatory bowel disease (IBD)]; hsa04650 [Pathway Title: Natural killer cell mediated cytotoxicity]; hsa05161 [Pathway Title: Hepatitis B]
ZMYM5	miR-34c-3p	hsa05012 [Pathway Title: Parkinson's disease]; hsa04141 [Pathway Title: Protein processing in endoplasmic reticulum]; hsa04120 [Pathway Title: Ubiquitin mediated proteolysis]
CDC42EP3	miR-16	hsa05412 [Pathway Title: Arrhythmogenic right ventricular cardiomyopathy (ARVC)]
LOC100506935	miR-16	miR-16
GEMIN7	Let-7a-1	hsa00100 [Pathway Title: Steroid biosynthesis]
HNRNPAB	miR-16	hsa00250 [Pathway Title: Alanine, aspartate and glutamate metabolism]; hsa01100 [Pathway Title: Metabolic pathways]; hsa00520 [Pathway Title: Amino sugar and nucleotide sugar metabolism]
TIPRL	miR-124-1	hsa00380 [Pathway Title: Tryptophan metabolism]; hsa04913 [Pathway Title: Ovarian steroidogenesis]; hsa00980 [Pathway Title: Metabolism of xenobiotics by cytochrome P450]; hsa05206 [Pathway Title: MicroRNAs in cancer]; hsa05204 [Pathway Title: Chemical carcinogenesis]; hsa00140 [Pathway Title: Steroid hormone biosynthesis]
C12orf44	miR-16	hsa00510 [Pathway Title: N-Glycan biosynthesis]
CSNK1G2	miR-125a-3pa-5p	hsa00980 [Pathway Title: Metabolism of xenobiotics by cytochrome P450]; hsa00140 [Pathway Title: Steroid hormone biosynthesis]; hsa05204 [Pathway Title: Chemical carcinogenesis]; hsa01100 [Pathway Title: Metabolic pathways]
TAB1	miR-16	hsa03015 [Pathway Title: mRNA surveillance pathway]
DPP7	miR-24	hsa03030 [Pathway Title: DNA replication]; hsa03410 [Pathway Title: Base excision repair]; hsa03450 [Pathway Title: Non-homologous end-joining]
LYPLA2	miR-124-1	hsa03410 [Pathway Title: Base excision repair]
EDC3	miR-24	hsa04145 [Pathway Title: Phagosome]; hsa04510 [Pathway Title: Focal adhesion]; hsa05414 [Pathway Title: Dilated cardiomyopathy]; hsa05131 [Pathway Title: Shigellosis]; hsa04390 [Pathway Title: Hippo signaling pathway]; hsa04810 [Pathway Title: Regulation of actin cytoskeleton]; hsa04670 [Pathway Title: Leukocyte transendothelial migration]; hsa05100 [Pathway Title: Bacterial invasion of epithelial cells]; hsa05412 [Pathway Title: Arrhythmogenic right ventricular cardiomyopathy (ARVC)]; hsa04530 [Pathway Title: Tight junction]; hsa05410 [Pathway Title: Hypertrophic cardiomyopathy (HCM)]; hsa05416 [Pathway Title: Viral myocarditis]; hsa05132 [Pathway Title: Salmonella infection]; hsa05164 [Pathway Title: Influenza A]; hsa04015 [Pathway Title: Rap1 signaling pathway]; hsa04520 [Pathway Title: Adherens junction]; hsa05110 [Pathway Title: Vibrio cholerae infection]; hsa05130 [Pathway Title: Pathogenic Escherichia coli infection]; hsa05205 [Pathway Title: Proteoglycans in cancer]
GBAS	miR-16	hsa04146 [Pathway Title: Peroxisome]
ARRDC3	miR-10a	hsa04146 [Pathway Title: Peroxisome]; hsa05016 [Pathway Title: Huntington's disease]
TNFSF14	miR-16	hsa04380 [Pathway Title: Osteoclast differentiation]

Targets	miRNAs	Pathway annotation
RBM6	miR-7	hsa04650 [Pathway Title: Natural killer cell mediated cytotoxicity]; hsa04670 [Pathway Title: Leukocyte transendothelial migration]; hsa04725 [Pathway Title: Cholinergic synapse]; hsa04810 [Pathway Title: Regulation of actin cytoskeleton]; hsa04932 [Pathway Title: Non-alcoholic fatty liver disease (NAFLD)]; hsa05160 [Pathway Title: Hepatitis C]; hsa05205 [Pathway Title: Proteoglycans in cancer]; hsa05214 [Pathway Title: Glioma]; hsa05215 [Pathway Title: Prostate cancer]; hsa05220 [Pathway Title: Chronic myeloid leukemia]; hsa04261 [Pathway Title: Adrenergic signaling in cardiomyocytes]; hsa04660 [Pathway Title: T cell receptor signaling pathway]; hsa04910 [Pathway Title: Insulin signaling pathway]; hsa05145 [Pathway Title: Toxoplasmosis]; hsa05166 [Pathway Title: HTLV-I infection]; hsa05210 [Pathway Title: Colorectal cancer]; hsa04066 [Pathway Title: HIF-1 signaling pathway]; hsa04150 [Pathway Title: mTOR signaling pathway]; hsa04510 [Pathway Title: Focal adhesion]; hsa04620 [Pathway Title: Toll-like receptor signaling pathway]; hsa04930 [Pathway Title: Type II diabetes mellitus]; hsa05222 [Pathway Title: Small cell lung cancer]; hsa04014 [Pathway Title: Ras signaling pathway]; hsa04151 [Pathway Title: PI3K-Akt signaling pathway]; hsa04210 [Pathway Title: Apoptosis]; hsa04664 [Pathway Title: Fc epsilon RI signaling pathway]; hsa04722 [Pathway Title: Neurotrophin signaling pathway]; hsa04917 [Pathway Title: Prolactin signaling pathway]; hsa04973 [Pathway Title: Carbohydrate digestion and absorption]; hsa05164 [Pathway Title: Influenza A]; hsa05203 [Pathway Title: Viral carcinogenesis]; hsa05213 [Pathway Title: Endometrial cancer]; hsa04012 [Pathway Title: ErbB signaling pathway]; hsa04630 [Pathway Title: Jak-STAT signaling pathway]; hsa05161 [Pathway Title: Hepatitis B]; hsa05162 [Pathway Title: Measles]; hsa05169 [Pathway Title: Epstein-Barr virus infection]; hsa05223 [Pathway Title: Non-small cell lung cancer]; hsa04070 [Pathway Title: Phosphatidylinositol signaling system]; hsa04960 [Pathway Title: Aldosterone-regulated sodium reabsorption]; hsa05100 [Pathway Title: Bacterial invasion of epithelial cells]; hsa05221 [Pathway Title: Acute myeloid leukemia]; hsa04662 [Pathway Title: B cell receptor signaling pathway]; hsa05142 [Pathway Title: Chagas disease (American trypanosomiasis)]; hsa05146 [Pathway Title: Amoebiasis]; hsa05211 [Pathway Title: Renal cell carcinoma]; hsa05212 [Pathway Title: Pancreatic cancer]; hsa05218 [Pathway Title: Melanoma]; hsa00562 [Pathway Title: Inositol phosphate metabolism]; hsa04015 [Pathway Title: Rap1 signaling pathway]; hsa04062 [Pathway Title: Chemokine signaling pathway]; hsa04370 [Pathway Title: VEGF signaling pathway]; hsa04380 [Pathway Title: Osteoclast differentiation]; hsa04666 [Pathway Title: Fc gamma R-mediated phagocytosis]; hsa04668 [Pathway Title: TNF signaling pathway]; hsa04914 [Pathway Title: Progesterone-mediated oocyte maturation]; hsa04915 [Pathway Title: Estrogen signaling pathway]; hsa05200 [Pathway Title: Pathways in cancer]
SGMS1	miR-124-1	hsa04670 [Pathway Title: Leukocyte transendothelial migration]; hsa04015 [Pathway Title: Rap1 signaling pathway]; hsa04520 [Pathway Title: Adherens junction]
RGS14	miR-29b	hsa04670 [Pathway Title: Leukocyte transendothelial migration]; hsa05200 [Pathway Title: Pathways in cancer]; hsa05205 [Pathway Title: Proteoglycans in cancer]; hsa04912 [Pathway Title: GnRH signaling pathway]; hsa04915 [Pathway Title: Estrogen signaling pathway]; hsa05219 [Pathway Title: Bladder cancer]
LCMT2	miR-210	hsa04913 [Pathway Title: Ovarian steroidogenesis]; hsa01100 [Pathway Title: Metabolic pathways]; hsa00140 [Pathway Title: Steroid hormone biosynthesis]
SDCCAG3	miR-124-1	hsa05010 [Pathway Title: Alzheimer's disease]
PIBF1	miR-7	hsa05010 [Pathway Title: Alzheimer's disease]; hsa05012 [Pathway Title: Parkinson's disease]
TAPT1	miR-486-5p	hsa05145 [Pathway Title: Toxoplasmosis]; hsa04672 [Pathway Title: Intestinal immune network for IgA production]; hsa04620 [Pathway Title: Toll-like receptor signaling pathway]; hsa05320 [Pathway Title: Autoimmune thyroid disease]; hsa05166 [Pathway Title: HTLV-I infection]; hsa05169 [Pathway Title: Epstein-Barr virus infection]; hsa05340 [Pathway Title: Primary immunodeficiency]; hsa04514 [Pathway Title: Cell adhesion molecules (CAMs)]; hsa05202 [Pathway Title: Transcriptional misregulation in cancer]; hsa05310 [Pathway Title: Asthma]; hsa05330 [Pathway Title: Allograft rejection]; hsa05416 [Pathway Title: Viral myocarditis]; hsa04060 [Pathway Title: Cytokine-cytokine receptor interaction]; hsa05322 [Pathway Title: Systemic lupus erythematosus]; hsa04064 [Pathway Title: NF-kappa B signaling pathway]; hsa05144 [Pathway Title: Malaria]
ZSCAN21	miR-152	hsa05160 [Pathway Title: Hepatitis C]; hsa05168 [Pathway Title: Herpes simplex infection]; hsa04620 [Pathway Title: Toll-like receptor signaling pathway]; hsa05161 [Pathway Title: Hepatitis B]; hsa05164 [Pathway Title: Influenza A]
ZNF785	miR-103-2	hsa05222 [Pathway Title: Small cell lung cancer]; hsa04510 [Pathway Title: Focal adhesion]; hsa04512 [Pathway Title: ECM-receptor interaction]; hsa05200 [Pathway Title: Pathways in cancer]; hsa05205 [Pathway Title: Proteoglycans in cancer]; hsa05410 [Pathway Title: Hypertrophic cardiomyopathy (HCM)]; hsa05414 [Pathway Title: Dilated cardiomyopathy]; hsa05412 [Pathway Title: Arrhythmogenic right ventricular cardiomyopathy (ARVC)]; hsa04145 [Pathway Title: Phagosome]; hsa04151 [Pathway Title: PI3K-Akt signaling pathway]; hsa04640 [Pathway Title: Hematopoietic cell lineage]; hsa04810 [Pathway Title: Regulation of actin cytoskeleton]
HSPA14	miR-16	hsa05410 [Pathway Title: Hypertrophic cardiomyopathy (HCM)]; hsa05412 [Pathway Title: Arrhythmogenic right ventricular cardiomyopathy (ARVC)]; hsa04972 [Pathway Title: Pancreatic secretion]; hsa05010 [Pathway Title: Alzheimer's disease]; hsa05414 [Pathway Title: Dilated cardiomyopathy]; hsa04020 [Pathway Title: Calcium signaling pathway]; hsa04260 [Pathway Title: Cardiac muscle contraction]; hsa04261 [Pathway Title: Adrenergic signaling in cardiomyocytes]
GGPS1	miR-16	hsa05410 [Pathway Title: Hypertrophic cardiomyopathy (HCM)]; hsa05414 [Pathway Title: Dilated cardiomyopathy]; hsa04260 [Pathway Title: Cardiac muscle contraction]; hsa04261 [Pathway Title: Adrenergic signaling in cardiomyocytes]
ELF4	miR-128-1	hsa00052 [Pathway Title: Galactose metabolism]; hsa00604 [Pathway Title: Glycosphingolipid biosynthesis - ganglio series]; hsa00531 [Pathway Title: Glycosaminoglycan degradation]; hsa04142 [Pathway Title: Lysosome]; hsa01100 [Pathway Title: Metabolic pathways]; hsa00511 [Pathway Title: Other glycan degradation]; hsa00600 [Pathway Title: Sphingolipid metabolism]
AAAMP	miR-107	hsa00260 [Pathway Title: Glycine, serine and threonine metabolism]; hsa00860 [Pathway Title: Porphyrin and chlorophyll metabolism]; hsa01100 [Pathway Title: Metabolic pathways]
ZNF169	miR-124-1	hsa00280 [Pathway Title: Valine, leucine and isoleucine degradation]; hsa00410 [Pathway Title: beta-Alanine metabolism]; hsa00010 [Pathway Title: Glycolysis / Gluconeogenesis]; hsa00330 [Pathway Title: Arginine and proline metabolism]; hsa00053 [Pathway Title: Ascorbate and aldarate metabolism]; hsa00561 [Pathway Title: Glycerolipid metabolism]; hsa00620 [Pathway Title: Pyruvate metabolism]; hsa00071 [Pathway Title: Fatty acid degradation]; hsa00380 [Pathway Title: Tryptophan metabolism]; hsa00310 [Pathway Title: Lysine degradation]; hsa00340 [Pathway Title: Histidine metabolism]; hsa00640 [Pathway Title: Propanoate metabolism]; hsa01100 [Pathway Title: Metabolic pathways]
BRD4	miR-16	hsa00565 [Pathway Title: Ether lipid metabolism]; hsa01100 [Pathway Title: Metabolic pathways]
FBXO33	miR-184	hsa04662 [Pathway Title: B cell receptor signaling pathway]; hsa05161 [Pathway Title: Hepatitis B]; hsa04310 [Pathway Title: Wnt signaling pathway]; hsa04360 [Pathway Title: Axon guidance]; hsa05166 [Pathway Title: HTLV-I infection]; hsa04370 [Pathway Title: VEGF signaling pathway]; hsa04650 [Pathway Title: Natural killer cell mediated cytotoxicity]; hsa04660 [Pathway Title: T cell receptor signaling pathway]; hsa04380 [Pathway Title: Osteoclast differentiation]
SELPLG	miR-98	hsa04915 [Pathway Title: Estrogen signaling pathway]; hsa04917 [Pathway Title: Prolactin signaling pathway]
EPB41L4A	miR-134	hsa05210 [Pathway Title: Colorectal cancer]; hsa03430 [Pathway Title: Mismatch repair]; hsa05200 [Pathway Title: Pathways in cancer]