

**Supplementary table 1.** All putative miRNAs related to melanoma in MNDR v2.0 database.

ncRNA Symbol	ncRNA Category	Species	Disease Name	Score
*hsa-miR-148b-3p	miRNA	Homo sapiens	melanoma	0.9578
*hsa-miR-377-3p	miRNA	Homo sapiens	melanoma	0.9443
hsa-miR-224-5p	miRNA	Homo sapiens	melanoma	0.8965
hsa-miR-128-3p	miRNA	Homo sapiens	melanoma	0.8965
hsa-miR-135a-5p	miRNA	Homo sapiens	melanoma	0.8965
hsa-let-7e	miRNA	Homo sapiens	melanoma	0.8939
hsa-let-7g	miRNA	Homo sapiens	melanoma	0.8939
*hsa-let-7a-5p	miRNA	Homo sapiens	melanoma	0.8939
hsa-miR-15a-5p	miRNA	Homo sapiens	melanoma	0.8939
hsa-miR-27a-3p	miRNA	Homo sapiens	melanoma	0.8939
hsa-miR-95-3p	miRNA	Homo sapiens	melanoma	0.8939
hsa-miR-100-5p	miRNA	Homo sapiens	melanoma	0.8939
hsa-miR-29b-3p	miRNA	Homo sapiens	melanoma	0.8939
hsa-miR-148a-3p	miRNA	Homo sapiens	melanoma	0.8939
hsa-miR-139-5p	miRNA	Homo sapiens	melanoma	0.8939
hsa-miR-34a-5p	miRNA	Homo sapiens	melanoma	0.8939
hsa-miR-181a-5p	miRNA	Homo sapiens	melanoma	0.8939
hsa-miR-183-5p	miRNA	Homo sapiens	melanoma	0.8939
hsa-miR-199b-5p	miRNA	Homo sapiens	melanoma	0.8939
hsa-miR-181a-3p	miRNA	Homo sapiens	melanoma	0.8939
hsa-miR-215-5p	miRNA	Homo sapiens	melanoma	0.8939
*hsa-miR-222-3p	miRNA	Homo sapiens	melanoma	0.8939

hsa-miR-200b-3p	miRNA	Homo sapiens	melanoma	0.8939
hsa-miR-27b-3p	miRNA	Homo sapiens	melanoma	0.8939
*hsa-miR-125b-5p	miRNA	Homo sapiens	melanoma	0.8939
hsa-miR-137	miRNA	Homo sapiens	melanoma	0.8939
hsa-miR-140-5p	miRNA	Homo sapiens	melanoma	0.8939
hsa-miR-141-3p	miRNA	Homo sapiens	melanoma	0.8939
hsa-miR-127-3p	miRNA	Homo sapiens	melanoma	0.8939
hsa-miR-190a-5p	miRNA	Homo sapiens	melanoma	0.8939
hsa-miR-200c-3p	miRNA	Homo sapiens	melanoma	0.8939
hsa-miR-200a-3p	miRNA	Homo sapiens	melanoma	0.8939
hsa-miR-34c-5p	miRNA	Homo sapiens	melanoma	0.8939
hsa-miR-324-5p	miRNA	Homo sapiens	melanoma	0.8939
hsa-miR-95-5p	miRNA	Homo sapiens	melanoma	0.8939
hsa-miR-215-3p	miRNA	Homo sapiens	melanoma	0.8939
hsa-let-7d	miRNA	Homo sapiens	melanoma	0.8808
hsa-mir-26a-1	miRNA	Homo sapiens	melanoma	0.8808
hsa-mir-104	miRNA	Homo sapiens	melanoma	0.8808
hsa-mir-196a-1	miRNA	Homo sapiens	melanoma	0.8808
hsa-mir-196a-2	miRNA	Homo sapiens	melanoma	0.8808
hsa-mir-203	miRNA	Homo sapiens	melanoma	0.8808
hsa-mir-9-2	miRNA	Homo sapiens	melanoma	0.8808
hsa-mir-9-3	miRNA	Homo sapiens	melanoma	0.8808
hsa-mir-128-2	miRNA	Homo sapiens	melanoma	0.8808
hsa-mir-26a-2	miRNA	Homo sapiens	melanoma	0.8808

hsa-miR-17-3p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-19a-3p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-24-1-5p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-28-5p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-31-5p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-96-5p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-105-5p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-106a-5p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-107	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-199a-5p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-129-5p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-182-5p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-204-5p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-211-5p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-216a-5p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-219a-5p	miRNA	Homo sapiens	melanoma	0.8808
*hsa-miR-221-3p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-15b-5p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-23b-3p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-30b-5p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-124-3p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-138-5p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-144-3p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-9-5p	miRNA	Homo sapiens	melanoma	0.8808

hsa-miR-149-5p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-154-5p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-184	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-185-5p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-302a-3p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-34b-5p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-302b-3p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-302c-3p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-302d-3p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-374a-5p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-323a-3p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-135b-5p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-331-3p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-325	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-532-5p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-15a-3p	miRNA	Homo sapiens	melanoma	0.8808
hsa-miR-15b-3p	miRNA	Homo sapiens	melanoma	0.8808
hsa-mir-16-1	miRNA	Homo sapiens	melanoma	0.8589
hsa-mir-19b-1	miRNA	Homo sapiens	melanoma	0.8589
hsa-mir-29b-1	miRNA	Homo sapiens	melanoma	0.8589
hsa-mir-29b-2	miRNA	Homo sapiens	melanoma	0.8589
hsa-mir-103a-2	miRNA	Homo sapiens	melanoma	0.8589
hsa-mir-16-2	miRNA	Homo sapiens	melanoma	0.8589
hsa-mir-199a-2	miRNA	Homo sapiens	melanoma	0.8589

hsa-mir-181a-1	miRNA	Homo sapiens	melanoma	0.8589
hsa-mir-215	miRNA	Homo sapiens	melanoma	0.8589
hsa-mir-218-1	miRNA	Homo sapiens	melanoma	0.8589
hsa-mir-133a-2	miRNA	Homo sapiens	melanoma	0.8589
hsa-mir-138-2	miRNA	Homo sapiens	melanoma	0.8589
hsa-mir-153-2	miRNA	Homo sapiens	melanoma	0.8589
hsa-mir-9-1	miRNA	Homo sapiens	melanoma	0.8589
hsa-mir-138-1	miRNA	Homo sapiens	melanoma	0.8589
hsa-mir-194-1	miRNA	Homo sapiens	melanoma	0.8589
hsa-mir-1-1	miRNA	Homo sapiens	melanoma	0.8589
hsa-mir-106b	miRNA	Homo sapiens	melanoma	0.8589
hsa-mir-383	miRNA	Homo sapiens	melanoma	0.8589
hsa-mir-151a	miRNA	Homo sapiens	melanoma	0.8589
hsa-miR-25-3p	miRNA	Homo sapiens	melanoma	0.8589
hsa-miR-29a-3p	miRNA	Homo sapiens	melanoma	0.8589
hsa-miR-93-5p	miRNA	Homo sapiens	melanoma	0.8589
hsa-miR-30d-5p	miRNA	Homo sapiens	melanoma	0.8589
hsa-miR-320a	miRNA	Homo sapiens	melanoma	0.8589
hsa-miR-296-5p	miRNA	Homo sapiens	melanoma	0.8589
hsa-miR-367-3p	miRNA	Homo sapiens	melanoma	0.8589
hsa-miR-376c-3p	miRNA	Homo sapiens	melanoma	0.8589
hsa-miR-376a-3p	miRNA	Homo sapiens	melanoma	0.8589
hsa-miR-338-3p	miRNA	Homo sapiens	melanoma	0.8589
hsa-miR-339-5p	miRNA	Homo sapiens	melanoma	0.8589

hsa-miR-488-5p	miRNA	Homo sapiens	melanoma	0.8589
hsa-miR-933	miRNA	Homo sapiens	melanoma	0.8589

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\* denotes it exists in MNDR

**Supplementary table 2.** All putative mRNAs for miR-377-3p from miRDB database.

Target Rank	Target Score	miRNA Name	Gene Symbol	Gene Description
1	99	hsa-miR-377-3p	STOX2	storkhead box 2
2	99	hsa-miR-377-3p	ARMC8	armadillo repeat containing 8
3	99	hsa-miR-377-3p	NLGN1	neuroligin 1
4	99	hsa-miR-377-3p	PUM2	pumilio RNA binding family member 2
5	99	hsa-miR-377-3p	ETS1	ETS proto-oncogene 1, transcription factor
6	99	hsa-miR-377-3p	CFTR	cystic fibrosis transmembrane conductance regulator
7	98	hsa-miR-377-3p	FBXO32	F-box protein 32
8	98	hsa-miR-377-3p	JAG1	jagged 1
9	98	hsa-miR-377-3p	SETBP1	SET binding protein 1
10	98	hsa-miR-377-3p	DCAF12	DDB1 and CUL4 associated factor 12
11	97	hsa-miR-377-3p	DCP1A	decapping mRNA 1A
12	97	hsa-miR-377-3p	CUL1	cullin 1
13	97	hsa-miR-377-3p	RNMT	RNA guanine-7 methyltransferase
14	97	hsa-miR-377-3p	C5orf24	chromosome 5 open reading frame 24
15	97	hsa-miR-377-3p	ATXN7	ataxin 7
16	97	hsa-miR-377-3p	CNOT6	CCR4-NOT transcription complex subunit 6
17	97	hsa-miR-377-3p	EIF4ENIF1	eukaryotic translation initiation factor 4E nuclear import factor 1
18	97	hsa-miR-377-3p	LIN28B	lin-28 homolog B
19	96	hsa-miR-377-3p	SOD2	superoxide dismutase 2
20	96	hsa-miR-377-3p	CARTPT	CART prepropeptide
21	96	hsa-miR-377-3p	C7orf57	chromosome 7 open reading frame 57

22	96	hsa-miR-377-3p	SLC6A19	solute carrier family 6 member 19
23	96	hsa-miR-377-3p	C21orf91	chromosome 21 open reading frame 91
24	96	hsa-miR-377-3p	TMEM273	transmembrane protein 273
25	96	hsa-miR-377-3p	HMOX1	heme oxygenase 1
26	96	hsa-miR-377-3p	FLVCR1	feline leukemia virus subgroup C cellular receptor 1
27	96	hsa-miR-377-3p	ANKRD42	ankyrin repeat domain 42
28	96	hsa-miR-377-3p	MAT2B	methionine adenosyltransferase 2B
29	96	hsa-miR-377-3p	OTULIN	OTU deubiquitinase with linear linkage specificity
30	96	hsa-miR-377-3p	ZZZ3	zinc finger ZZ-type containing 3
31	96	hsa-miR-377-3p	DNAJB1	DnaJ heat shock protein family (Hsp40) member B1
32	95	hsa-miR-377-3p	NAA15	N(alpha)-acetyltransferase 15, NatA auxiliary subunit
33	95	hsa-miR-377-3p	NTS	neurotensin
34	95	hsa-miR-377-3p	KIF13A	kinesin family member 13A
35	95	hsa-miR-377-3p	CCNT2	cyclin T2
36	95	hsa-miR-377-3p	CELF1	CUGBP Elav-like family member 1
37	95	hsa-miR-377-3p	PITX2	paired like homeodomain 2
38	95	hsa-miR-377-3p	LMX1A	LIM homeobox transcription factor 1 alpha
39	95	hsa-miR-377-3p	UBE2H	ubiquitin conjugating enzyme E2 H
40	94	hsa-miR-377-3p	C6orf106	chromosome 6 open reading frame 106
41	94	hsa-miR-377-3p	CDON	cell adhesion associated, oncogene regulated
42	94	hsa-miR-377-3p	SGK3	serum/glucocorticoid regulated kinase family member 3
43	94	hsa-miR-377-3p	SPTLC1	serine palmitoyltransferase long chain base subunit 1
44	94	hsa-miR-377-3p	FNBP1L	formin binding protein 1 like
45	94	hsa-miR-377-3p	LRPAP1	LDL receptor related protein associated protein 1



46	94	hsa-miR-377-3p	FOXJ3	forkhead box J3
47	94	hsa-miR-377-3p	PCDH10	protocadherin 10
48	94	hsa-miR-377-3p	STARD7	StAR related lipid transfer domain containing 7
49	94	hsa-miR-377-3p	UNC80	unc-80 homolog, NALCN channel complex subunit
50	93	hsa-miR-377-3p	SYT11	synaptotagmin 11
51	93	hsa-miR-377-3p	RPS6KB1	ribosomal protein S6 kinase B1
52	93	hsa-miR-377-3p	IL18R1	interleukin 18 receptor 1
53	93	hsa-miR-377-3p	ULK1	unc-51 like autophagy activating kinase 1
54	93	hsa-miR-377-3p	TAPT1	transmembrane anterior posterior transformation 1
55	93	hsa-miR-377-3p	NRXN1	neurexin 1
56	93	hsa-miR-377-3p	NELFA	negative elongation factor complex member A
57	93	hsa-miR-377-3p	KLHL24	kelch like family member 24
58	93	hsa-miR-377-3p	UBE2D2	ubiquitin conjugating enzyme E2 D2
59	93	hsa-miR-377-3p	RASSF8	Ras association domain family member 8
60	93	hsa-miR-377-3p	CHUK	conserved helix-loop-helix ubiquitous kinase
61	92	hsa-miR-377-3p	SMIM3	small integral membrane protein 3
62	92	hsa-miR-377-3p	NRP2	neuropilin 2
63	92	hsa-miR-377-3p	MCF2	MCF.2 cell line derived transforming sequence
64	92	hsa-miR-377-3p	ZFP36L1	ZFP36 ring finger protein like 1
65	92	hsa-miR-377-3p	NR6A1	nuclear receptor subfamily 6 group A member 1
66	92	hsa-miR-377-3p	ATL2	atlastin GTPase 2
67	92	hsa-miR-377-3p	KCNA4	potassium voltage-gated channel subfamily A member 4
68	92	hsa-miR-377-3p	ARID4B	AT-rich interaction domain 4B
69	92	hsa-miR-377-3p	KLF7	Kruppel like factor 7

70	92	hsa-miR-377-3p	PPP3R1	protein phosphatase 3 regulatory subunit B, alpha
71	92	hsa-miR-377-3p	INPP5E	inositol polyphosphate-5-phosphatase E
72	92	hsa-miR-377-3p	RBM33	RNA binding motif protein 33
73	92	hsa-miR-377-3p	DNAJB9	DnaJ heat shock protein family (Hsp40) member B9
74	91	hsa-miR-377-3p	OCRL	OCRL, inositol polyphosphate-5-phosphatase
75	91	hsa-miR-377-3p	EFCAB1	EF-hand calcium binding domain 1
76	91	hsa-miR-377-3p	LAMC1	laminin subunit gamma 1
77	91	hsa-miR-377-3p	INSC	INSC, spindle orientation adaptor protein
78	91	hsa-miR-377-3p	KCNMA1	potassium calcium-activated channel subfamily M alpha 1
79	91	hsa-miR-377-3p	ARL8B	ADP ribosylation factor like GTPase 8B
80	91	hsa-miR-377-3p	CSRNP3	cysteine and serine rich nuclear protein 3
81	91	hsa-miR-377-3p	CARF	calcium responsive transcription factor
82	91	hsa-miR-377-3p	OCN	occludin
83	91	hsa-miR-377-3p	RABGAP1L	RAB GTPase activating protein 1 like
84	91	hsa-miR-377-3p	GXYLT2	glucoside xylosyltransferase 2
85	91	hsa-miR-377-3p	GLS	glutaminase
86	91	hsa-miR-377-3p	CREBL2	cAMP responsive element binding protein like 2
87	91	hsa-miR-377-3p	FBXO4	F-box protein 4
88	91	hsa-miR-377-3p	UMAD1	UBAP1-MVB12-associated (UMA) domain containing 1
89	91	hsa-miR-377-3p	MINAR1	membrane integral NOTCH2 associated receptor 1
90	91	hsa-miR-377-3p	RBMS1	RNA binding motif single stranded interacting protein 1
91	91	hsa-miR-377-3p	TM6SF1	transmembrane 6 superfamily member 1
92	90	hsa-miR-377-3p	CEP135	centrosomal protein 135
93	90	hsa-miR-377-3p	PHF6	PHD finger protein 6

94	90	hsa-miR-377-3p	ARHGAP5	Rho GTPase activating protein 5
95	90	hsa-miR-377-3p	NT5C3B	5'-nucleotidase, cytosolic IIIB
96	90	hsa-miR-377-3p	SCN8A	sodium voltage-gated channel alpha subunit 8
97	90	hsa-miR-377-3p	TASOR	transcription activation suppressor
98	90	hsa-miR-377-3p	PTPRT	protein tyrosine phosphatase, receptor type T
99	90	hsa-miR-377-3p	PCF11	PCF11, cleavage and polyadenylation factor subunit
100	90	hsa-miR-377-3p	XIAP	X-linked inhibitor of apoptosis
101	90	hsa-miR-377-3p	CCDC68	coiled-coil domain containing 68
102	90	hsa-miR-377-3p	NRF1	nuclear respiratory factor 1
103	90	hsa-miR-377-3p	ARID1A	AT-rich interaction domain 1A
104	90	hsa-miR-377-3p	VDAC3	voltage dependent anion channel 3
105	90	hsa-miR-377-3p	ARHGEF28	Rho guanine nucleotide exchange factor 28
106	90	hsa-miR-377-3p	TRIP12	thyroid hormone receptor interactor 12
107	90	hsa-miR-377-3p	XPO7	exportin 7
108	90	hsa-miR-377-3p	FLYWCH2	FLYWCH family member 2
109	89	hsa-miR-377-3p	PDE10A	phosphodiesterase 10A
110	89	hsa-miR-377-3p	PPM1A	protein phosphatase, Mg <sup>2+</sup> /Mn <sup>2+</sup> dependent 1A
111	89	hsa-miR-377-3p	PLCB1	phospholipase C beta 1
112	89	hsa-miR-377-3p	GPCPD1	glycerophosphocholine phosphodiesterase 1
113	89	hsa-miR-377-3p	CACNA2D1	calcium voltage-gated channel auxiliary subunit alpha2delta 1
114	89	hsa-miR-377-3p	TAF4	TATA-box binding protein associated factor 4
115	89	hsa-miR-377-3p	CDH13	cadherin 13
116	89	hsa-miR-377-3p	TTLL7	tubulin tyrosine ligase like 7
117	88	hsa-miR-377-3p	EYA4	EYA transcriptional coactivator and phosphatase 4

118	88	hsa-miR-377-3p	GBP1		guanylate binding protein 1
119	88	hsa-miR-377-3p	RNF38		ring finger protein 38
120	88	hsa-miR-377-3p	SLC39A10		solute carrier family 39 member 10
121	88	hsa-miR-377-3p		43710	septin 2
122	88	hsa-miR-377-3p	NUFIP2		nuclear FMR1 interacting protein 2
123	88	hsa-miR-377-3p	USP13		ubiquitin specific peptidase 13
124	88	hsa-miR-377-3p	WASF1		WAS protein family member 1
125	88	hsa-miR-377-3p	DARS2		aspartyl-tRNA synthetase 2, mitochondrial
126	88	hsa-miR-377-3p	RSBN1		round spermatid basic protein 1
127	87	hsa-miR-377-3p	HS3ST5		heparan sulfate-glucosamine 3-sulfotransferase 5
128	87	hsa-miR-377-3p	SLC4A10		solute carrier family 4 member 10
129	87	hsa-miR-377-3p	ZNF148		zinc finger protein 148
130	87	hsa-miR-377-3p	CRELD1		cysteine rich with EGF like domains 1
131	87	hsa-miR-377-3p	ABHD18		abhydrolase domain containing 18
132	87	hsa-miR-377-3p	CDC14A		cell division cycle 14A
133	87	hsa-miR-377-3p	NT5E		5'-nucleotidase ecto
134	87	hsa-miR-377-3p	UBXN10		UBX domain protein 10
135	87	hsa-miR-377-3p	RIN2		Ras and Rab interactor 2
136	87	hsa-miR-377-3p	NCOA1		nuclear receptor coactivator 1
137	87	hsa-miR-377-3p	CAND1		cullin associated and neddylation dissociated 1
138	87	hsa-miR-377-3p	GPR88		G protein-coupled receptor 88
139	87	hsa-miR-377-3p	CAPZB		capping actin protein of muscle Z-line subunit beta
140	87	hsa-miR-377-3p	RALGPS2		Ral GEF with PH domain and SH3 binding motif 2
141	87	hsa-miR-377-3p	GREM2		gremlin 2, DAN family BMP antagonist

142	87	hsa-miR-377-3p	CENPV	centromere protein V
143	87	hsa-miR-377-3p	MSR1	macrophage scavenger receptor 1
144	86	hsa-miR-377-3p	ZCCHC17	zinc finger CCHC-type containing 17
145	86	hsa-miR-377-3p	KRTAP19-3	keratin associated protein 19-3
146	86	hsa-miR-377-3p	MED13L	mediator complex subunit 13 like
147	86	hsa-miR-377-3p	SRSF1	serine and arginine rich splicing factor 1
148	86	hsa-miR-377-3p	RBM18	RNA binding motif protein 18
149	86	hsa-miR-377-3p	ZBTB6	zinc finger and BTB domain containing 6
150	86	hsa-miR-377-3p	CDV3	CDV3 homolog
151	86	hsa-miR-377-3p	KAT6A	lysine acetyltransferase 6A
152	86	hsa-miR-377-3p	ZNF516	zinc finger protein 516
153	86	hsa-miR-377-3p	PTGS1	prostaglandin-endoperoxide synthase 1
154	86	hsa-miR-377-3p	BCL2L1	BCL2 like 1
155	86	hsa-miR-377-3p	CCDC117	coiled-coil domain containing 117
156	86	hsa-miR-377-3p	TRIO	trio Rho guanine nucleotide exchange factor
157	85	hsa-miR-377-3p	SLC11A2	solute carrier family 11 member 2
158	85	hsa-miR-377-3p	C8orf44-SGK3	C8orf44-SGK3 readthrough
159	85	hsa-miR-377-3p	TMX1	thioredoxin related transmembrane protein 1
160	85	hsa-miR-377-3p	AGAP5	ArfGAP with GTPase domain, ankyrin repeat and PH domain 5
161	85	hsa-miR-377-3p	AGAP6	ArfGAP with GTPase domain, ankyrin repeat and PH domain 6
162	85	hsa-miR-377-3p	PEX14	peroxisomal biogenesis factor 14
163	85	hsa-miR-377-3p	SESN1	sestrin 1
164	85	hsa-miR-377-3p	STK35	serine/threonine kinase 35

165	85	hsa-miR-377-3p	FBXO30	F-box protein 30
166	85	hsa-miR-377-3p	SLC6A8	solute carrier family 6 member 8
167	85	hsa-miR-377-3p	AGAP4	ArfGAP with GTPase domain, ankyrin repeat and PH domain 4
168	84	hsa-miR-377-3p	IDS	iduronate 2-sulfatase
169	84	hsa-miR-377-3p	AAK1	AP2 associated kinase 1
170	84	hsa-miR-377-3p	KCTD2	potassium channel tetramerization domain containing 2
171	84	hsa-miR-377-3p	CAMTA1	calmodulin binding transcription activator 1
172	84	hsa-miR-377-3p	PLPPR5	phospholipid phosphatase related 5
173	84	hsa-miR-377-3p	LIG4	DNA ligase 4
174	84	hsa-miR-377-3p	TP63	tumor protein p63
175	84	hsa-miR-377-3p	TUBE1	tubulin epsilon 1
176	84	hsa-miR-377-3p	CD274	CD274 molecule
177	84	hsa-miR-377-3p	FZD6	frizzled class receptor 6
178	84	hsa-miR-377-3p	UBA3	ubiquitin like modifier activating enzyme 3
179	83	hsa-miR-377-3p	CTSC	cathepsin C
180	83	hsa-miR-377-3p	POC1B-GALNT4	POC1B-GALNT4 readthrough
181	83	hsa-miR-377-3p	RB1	RB transcriptional corepressor 1
182	83	hsa-miR-377-3p	DNAJC6	DnaJ heat shock protein family (Hsp40) member C6
183	83	hsa-miR-377-3p	CDKN1B	cyclin dependent kinase inhibitor 1B
184	83	hsa-miR-377-3p	GALNT4	polypeptide N-acetylgalactosaminyltransferase 4
185	83	hsa-miR-377-3p	PSME4	proteasome activator subunit 4
186	83	hsa-miR-377-3p	IL1RN	interleukin 1 receptor antagonist
187	83	hsa-miR-377-3p	ERGIC1	endoplasmic reticulum-golgi intermediate compartment 1
188	83	hsa-miR-377-3p	PAQR3	progesterin and adipoQ receptor family member 3

189	83	hsa-miR-377-3p	XRCC4	X-ray repair cross complementing 4
190	83	hsa-miR-377-3p	IRX3	iroquois homeobox 3
191	83	hsa-miR-377-3p	FBXO33	F-box protein 33
192	83	hsa-miR-377-3p	C16orf72	chromosome 16 open reading frame 72
193	83	hsa-miR-377-3p	ENPP6	ectonucleotide pyrophosphatase/phosphodiesterase 6
194	83	hsa-miR-377-3p	PPP1R9A	protein phosphatase 1 regulatory subunit 9A
195	83	hsa-miR-377-3p	HTR7	5-hydroxytryptamine receptor 7
196	83	hsa-miR-377-3p	OSBPL8	oxysterol binding protein like 8
197	83	hsa-miR-377-3p	INO80D	INO80 complex subunit D
198	83	hsa-miR-377-3p	GRSF1	G-rich RNA sequence binding factor 1
199	82	hsa-miR-377-3p	C2	complement C2
200	82	hsa-miR-377-3p	SEMA6A	semaphorin 6A
201	82	hsa-miR-377-3p	PTPRB	protein tyrosine phosphatase, receptor type B
202	82	hsa-miR-377-3p	SVIP	small VCP interacting protein
203	82	hsa-miR-377-3p	MAP3K7	mitogen-activated protein kinase kinase kinase 7
204	82	hsa-miR-377-3p	RFC1	replication factor C subunit 1
205	82	hsa-miR-377-3p	NETO1	neuropilin and tolloid like 1
206	82	hsa-miR-377-3p	DDX31	DEAD-box helicase 31
207	82	hsa-miR-377-3p	USP49	ubiquitin specific peptidase 49
208	82	hsa-miR-377-3p	TMOD2	tropomodulin 2
209	82	hsa-miR-377-3p	MGAM	maltase-glucoamylase
210	82	hsa-miR-377-3p	SLC4A7	solute carrier family 4 member 7
211	82	hsa-miR-377-3p	NKRF	NFKB repressing factor
212	82	hsa-miR-377-3p	NXPH3	neurexophilin 3

213	82	hsa-miR-377-3p	MAP1A		microtubule associated protein 1A
214	82	hsa-miR-377-3p	GRM6		glutamate metabotropic receptor 6
215	82	hsa-miR-377-3p	XPOT		exportin for tRNA
216	81	hsa-miR-377-3p	CASK		calcium/calmodulin dependent serine protein kinase
217	81	hsa-miR-377-3p	IRX2		iroquois homeobox 2
218	81	hsa-miR-377-3p	QKI		QKI, KH domain containing RNA binding
219	81	hsa-miR-377-3p	NAP1L1		nucleosome assembly protein 1 like 1
220	81	hsa-miR-377-3p	HDAC2		histone deacetylase 2
221	81	hsa-miR-377-3p	NUP153		nucleoporin 153
222	81	hsa-miR-377-3p	SGCB		sarcoglycan beta
223	81	hsa-miR-377-3p	TMED2		transmembrane p24 trafficking protein 2
224	81	hsa-miR-377-3p	BEND3		BEN domain containing 3
225	81	hsa-miR-377-3p	STRN4		striatin 4
226	81	hsa-miR-377-3p	ETNK1		ethanolamine kinase 1
227	81	hsa-miR-377-3p		43527	membrane associated ring-CH-type finger 3
228	81	hsa-miR-377-3p	SNX16		sorting nexin 16
229	81	hsa-miR-377-3p	PCDH7		protocadherin 7
230	81	hsa-miR-377-3p	H3F3A		H3 histone family member 3A
231	81	hsa-miR-377-3p	RNF182		ring finger protein 182
232	81	hsa-miR-377-3p	IPO5		importin 5
233	81	hsa-miR-377-3p	ALKAL1		ALK and LTK ligand 1
234	81	hsa-miR-377-3p	GPATCH2L		G-patch domain containing 2 like
235	80	hsa-miR-377-3p	SYCP2L		synaptonemal complex protein 2 like
236	80	hsa-miR-377-3p	THSD4		thrombospondin type 1 domain containing 4



237	80	hsa-miR-377-3p	PAFAH1B1	platelet activating factor acetylhydrolase 1b regulatory subunit 1
238	80	hsa-miR-377-3p	HP1BP3	heterochromatin protein 1 binding protein 3
239	80	hsa-miR-377-3p	OSBP2	oxysterol binding protein 2
240	80	hsa-miR-377-3p	BTG3	BTG anti-proliferation factor 3
241	80	hsa-miR-377-3p	B4GALT6	beta-1,4-galactosyltransferase 6
242	80	hsa-miR-377-3p	MCU	mitochondrial calcium uniporter
243	80	hsa-miR-377-3p	SEMA3E	semaphorin 3E
244	80	hsa-miR-377-3p	RIF1	replication timing regulatory factor 1
245	80	hsa-miR-377-3p	NOS3	nitric oxide synthase 3
246	80	hsa-miR-377-3p	PLCXD3	phosphatidylinositol specific phospholipase C X domain containing 3
247	80	hsa-miR-377-3p	NEGR1	neuronal growth regulator 1
248	80	hsa-miR-377-3p	TACR1	tachykinin receptor 1
249	80	hsa-miR-377-3p	PCGF5	polycomb group ring finger 5
250	80	hsa-miR-377-3p	COLQ	collagen like tail subunit of asymmetric acetylcholinesterase
251	80	hsa-miR-377-3p	UBP1	upstream binding protein 1

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