

Target Score	miRNA Name	Gene Symbol
98	hsa-mir-378e	KLK4
98	hsa-mir-378e	NR2C2
97	hsa-mir-378e	NKX3-1
97	hsa-mir-378e	KIAA1522
96	hsa-mir-378e	PHC3
92	hsa-mir-378e	ELAC1
92	hsa-mir-378e	ZNF124
91	hsa-mir-378e	RAB10
91	hsa-mir-378e	NCAPG
91	hsa-mir-378e	KCNIP2
90	hsa-mir-378e	VPS53
90	hsa-mir-378e	PLCXD2
90	hsa-mir-378e	JADE3
89	hsa-mir-378e	PTGES3
89	hsa-mir-378e	UHRF1
88	hsa-mir-378e	GPR156
88	hsa-mir-378e	AK7
88	hsa-mir-378e	RP1L1
87	hsa-mir-378e	C4orf46
87	hsa-mir-378e	CHAMP1
86	hsa-mir-378e	CREBRF
86	hsa-mir-378e	PIM2
86	hsa-mir-378e	CPD
86	hsa-mir-378e	AGK
86	hsa-mir-378e	SULF1
86	hsa-mir-378e	ZFPM2
85	hsa-mir-378e	RAN
85	hsa-mir-378e	IQSEC2
85	hsa-mir-378e	NPAS4
85	hsa-mir-378e	FLT1
85	hsa-mir-378e	NUAK2
85	hsa-mir-378e	WDR64
84	hsa-mir-378e	TSPAN17
84	hsa-mir-378e	CCNI2
82	hsa-mir-378e	PROK2
82	hsa-mir-378e	METTL4
82	hsa-mir-378e	RNF168
82	hsa-mir-378e	RPN2
82	hsa-mir-378e	FCGR1A
81	hsa-mir-378e	OTUB2
81	hsa-mir-378e	ATXN7L3B
80	hsa-mir-378e	WDR31
80	hsa-mir-378e	FCGR1B
80	hsa-mir-378e	KRT74
79	hsa-mir-378e	PRR20A
79	hsa-mir-378e	PRR20B
79	hsa-mir-378e	SDAD1
79	hsa-mir-378e	PRR20D
79	hsa-mir-378e	IQSEC1

79	hsa-mir-378e	PRR20E
79	hsa-mir-378e	PRR20C
78	hsa-mir-378e	OPRM1
78	hsa-mir-378e	SRSF10
78	hsa-mir-378e	C2orf88
78	hsa-mir-378e	YY1
78	hsa-mir-378e	SRP19
78	hsa-mir-378e	NDP
78	hsa-mir-378e	SOCS2
78	hsa-mir-378e	SRGAP2
77	hsa-mir-378e	ZFP36L2
77	hsa-mir-378e	DACT2
77	hsa-mir-378e	ZNF652
77	hsa-mir-378e	EIF4G3
77	hsa-mir-378e	VPS35
77	hsa-mir-378e	SLC20A2
77	hsa-mir-378e	CACNA2D4
76	hsa-mir-378e	MPP3
76	hsa-mir-378e	PRXL2B
76	hsa-mir-378e	SAR1A
76	hsa-mir-378e	TRAF3
75	hsa-mir-378e	GOLT1A
75	hsa-mir-378e	GIPC3
75	hsa-mir-378e	PPP1R12B
75	hsa-mir-378e	TMCO1
75	hsa-mir-378e	CRLS1
75	hsa-mir-378e	WFDC12
74	hsa-mir-378e	ZFP28
74	hsa-mir-378e	C10orf71
74	hsa-mir-378e	IL6ST
73	hsa-mir-378e	TOB2
73	hsa-mir-378e	GALNT3
73	hsa-mir-378e	C11orf49
73	hsa-mir-378e	KCNMA1
73	hsa-mir-378e	RBMS3
73	hsa-mir-378e	DYRK1A
73	hsa-mir-378e	PRR29
73	hsa-mir-378e	POMGNT1
72	hsa-mir-378e	PLCB1
72	hsa-mir-378e	AHSA1
72	hsa-mir-378e	RAB6D
72	hsa-mir-378e	SLC7A6
72	hsa-mir-378e	ATRNL1
72	hsa-mir-378e	SH3TC2
71	hsa-mir-378e	RSPH4A
71	hsa-mir-378e	NEUROD4
71	hsa-mir-378e	CCDC125
71	hsa-mir-378e	CHP2
71	hsa-mir-378e	KIAA1958
71	hsa-mir-378e	ZNF599

71	hsa-mir-378e	TRIB2
70	hsa-mir-378e	SBDS
70	hsa-mir-378e	ZNF776
70	hsa-mir-378e	SPOPL
70	hsa-mir-378e	RBBP9
70	hsa-mir-378e	FEM1B
69	hsa-mir-378e	PAX8
69	hsa-mir-378e	WDFY3
69	hsa-mir-378e	RAPGEF3
69	hsa-mir-378e	CBX5
68	hsa-mir-378e	C14orf177
68	hsa-mir-378e	SLC25A6
68	hsa-mir-378e	NUP160
68	hsa-mir-378e	RPL15
68	hsa-mir-378e	TMEM245
67	hsa-mir-378e	CD3G
67	hsa-mir-378e	STON1-GTF2A1L
67	hsa-mir-378e	PRR23C
67	hsa-mir-378e	GTF2A1L
67	hsa-mir-378e	APLP2
67	hsa-mir-378e	LRP2
67	hsa-mir-378e	SHANK3
67	hsa-mir-378e	NFIA
67	hsa-mir-378e	ACOD1
66	hsa-mir-378e	ALDH3A2
66	hsa-mir-378e	TBC1D16
66	hsa-mir-378e	CNTD2
66	hsa-mir-378e	EMB
66	hsa-mir-378e	AQP8
66	hsa-mir-378e	IGF1
66	hsa-mir-378e	FOXI2
66	hsa-mir-378e	USP6NL
66	hsa-mir-378e	DYNC1LI2
65	hsa-mir-378e	USB1
65	hsa-mir-378e	KPNA6
65	hsa-mir-378e	TLE2
65	hsa-mir-378e	WWC2
65	hsa-mir-378e	AKR1C4
65	hsa-mir-378e	H3F3B
65	hsa-mir-378e	PARVA
65	hsa-mir-378e	TRIM44
64	hsa-mir-378e	ZNF514
64	hsa-mir-378e	MAPK1
64	hsa-mir-378e	CCSER2
64	hsa-mir-378e	CNTN5
64	hsa-mir-378e	CSNK1G2
64	hsa-mir-378e	TGFBRAP1
64	hsa-mir-378e	ALPK3
64	hsa-mir-378e	KBTBD7
63	hsa-mir-378e	KDSR

63	hsa-mir-378e	ARID5B
63	hsa-mir-378e	SOST
63	hsa-mir-378e	TMPRSS13
63	hsa-mir-378e	NEUROD1
63	hsa-mir-378e	BAALC
63	hsa-mir-378e	SINHCAF
63	hsa-mir-378e	RIMS4
62	hsa-mir-378e	ZNF705A
62	hsa-mir-378e	HM13
62	hsa-mir-378e	TMED7-TICAM2
62	hsa-mir-378e	ZNF705E
62	hsa-mir-378e	RNF150
62	hsa-mir-378e	IL17RD
62	hsa-mir-378e	ZNF705D
61	hsa-mir-378e	SLC2A1
61	hsa-mir-378e	BEND4
61	hsa-mir-378e	COL6A2
61	hsa-mir-378e	ARL8B
61	hsa-mir-378e	TBC1D12
61	hsa-mir-378e	DMRT1

## Gene Description

kallikrein related peptidase 4  
nuclear receptor subfamily 2 group C member 2  
NK3 homeobox 1  
KIAA1522  
polyhomeotic homolog 3  
elaC ribonuclease Z 1  
zinc finger protein 124  
RAB10, member RAS oncogene family  
non-SMC condensin I complex subunit G  
potassium voltage-gated channel interacting protein 2  
VPS53, GARP complex subunit  
phosphatidylinositol specific phospholipase C X domain containing 2  
jade family PHD finger 3  
prostaglandin E synthase 3  
ubiquitin like with PHD and ring finger domains 1  
G protein-coupled receptor 156  
adenylate kinase 7  
RP1 like 1  
chromosome 4 open reading frame 46  
chromosome alignment maintaining phosphoprotein 1  
CREB3 regulatory factor  
Pim-2 proto-oncogene, serine/threonine kinase  
carboxypeptidase D  
acylglycerol kinase  
sulfatase 1  
zinc finger protein, FOG family member 2  
RAN, member RAS oncogene family  
IQ motif and Sec7 domain 2  
neuronal PAS domain protein 4  
fms related tyrosine kinase 1  
NUAK family kinase 2  
WD repeat domain 64  
tetraspanin 17  
cyclin I family member 2  
prokineticin 2  
methyltransferase like 4  
ring finger protein 168  
ribophorin II  
Fc fragment of IgG receptor Ia  
OTU deubiquitinase, ubiquitin aldehyde binding 2  
ataxin 7 like 3B  
WD repeat domain 31  
Fc fragment of IgG receptor Ib  
keratin 74  
proline rich 20A  
proline rich 20B  
SDA1 domain containing 1  
proline rich 20D  
IQ motif and Sec7 domain 1

proline rich 20E  
proline rich 20C  
opioid receptor mu 1  
serine and arginine rich splicing factor 10  
chromosome 2 open reading frame 88  
YY1 transcription factor  
signal recognition particle 19  
NDP, norrin cystine knot growth factor  
suppressor of cytokine signaling 2  
SLIT-ROBO Rho GTPase activating protein 2  
ZFP36 ring finger protein like 2  
dishevelled binding antagonist of beta catenin 2  
zinc finger protein 652  
eukaryotic translation initiation factor 4 gamma 3  
VPS35, retromer complex component  
solute carrier family 20 member 2  
calcium voltage-gated channel auxiliary subunit alpha2delta 4  
membrane palmitoylated protein 3  
peroxiredoxin like 2B  
secretion associated Ras related GTPase 1A  
TNF receptor associated factor 3  
golgi transport 1A  
GIPC PDZ domain containing family member 3  
protein phosphatase 1 regulatory subunit 12B  
transmembrane and coiled-coil domains 1  
cardiolipin synthase 1  
WAP four-disulfide core domain 12  
ZFP28 zinc finger protein  
chromosome 10 open reading frame 71  
interleukin 6 signal transducer  
transducer of ERBB2, 2  
polypeptide N-acetylgalactosaminyltransferase 3  
chromosome 11 open reading frame 49  
potassium calcium-activated channel subfamily M alpha 1  
RNA binding motif single stranded interacting protein 3  
dual specificity tyrosine phosphorylation regulated kinase 1A  
proline rich 29  
protein O-linked mannose N-acetylglucosaminyltransferase 1 (beta 1,2-)  
phospholipase C beta 1  
activator of HSP90 ATPase activity 1  
RAB6D, member RAS oncogene family  
solute carrier family 7 member 6  
attractin  
SH3 domain and tetratricopeptide repeats 2  
radial spoke head component 4A  
neuronal differentiation 4  
coiled-coil domain containing 125  
calcineurin like EF-hand protein 2  
KIAA1958  
zinc finger protein 599

tribbles pseudokinase 2  
SBDS, ribosome maturation factor  
zinc finger protein 776  
speckle type BTB/POZ protein like  
RB binding protein 9, serine hydrolase  
fem-1 homolog B  
paired box 8  
WD repeat and FYVE domain containing 3  
Rap guanine nucleotide exchange factor 3  
chromobox 5  
chromosome 14 open reading frame 177  
solute carrier family 25 member 6  
nucleoporin 160  
ribosomal protein L15  
transmembrane protein 245  
CD3g molecule  
STON1-GTF2A1L readthrough  
proline rich 23C  
general transcription factor IIA subunit 1 like  
amyloid beta precursor like protein 2  
LDL receptor related protein 2  
SH3 and multiple ankyrin repeat domains 3  
nuclear factor I A  
aconitate decarboxylase 1  
aldehyde dehydrogenase 3 family member A2  
TBC1 domain family member 16  
cyclin N-terminal domain containing 2  
embigin  
aquaporin 8  
insulin like growth factor 1  
forkhead box I2  
USP6 N-terminal like  
dynein cytoplasmic 1 light intermediate chain 2  
U6 snRNA biogenesis phosphodiesterase 1  
karyopherin subunit alpha 6  
TLE family member 2, transcriptional corepressor  
WW and C2 domain containing 2  
aldo-keto reductase family 1 member C4  
H3 histone family member 3B  
parvin alpha  
tripartite motif containing 44  
zinc finger protein 514  
mitogen-activated protein kinase 1  
coiled-coil serine rich protein 2  
contactin 5  
casein kinase 1 gamma 2  
transforming growth factor beta receptor associated protein 1  
alpha kinase 3  
kelch repeat and BTB domain containing 7  
3-ketodihydrosphingosine reductase

AT-rich interaction domain 5B  
sclerostin  
transmembrane serine protease 13  
neuronal differentiation 1  
BAALC, MAP3K1 and KLF4 binding  
SIN3-HDAC complex associated factor  
regulating synaptic membrane exocytosis 4  
zinc finger protein 705A  
histocompatibility minor 13  
TMED7-TICAM2 readthrough  
zinc finger protein 705E  
ring finger protein 150  
interleukin 17 receptor D  
zinc finger protein 705D  
solute carrier family 2 member 1  
BEN domain containing 4  
collagen type VI alpha 2 chain  
ADP ribosylation factor like GTPase 8B  
TBC1 domain family member 12  
doublesex and mab-3 related transcription factor 1

Target Score	miRNA Name	Gene Symbol
97	hsa-miR-708-3p	SCAMP1
97	hsa-miR-708-3p	JARID2
97	hsa-miR-708-3p	TRAF3
97	hsa-miR-708-3p	VIM
97	hsa-miR-708-3p	BAZ1B
96	hsa-miR-708-3p	SPRED1
96	hsa-miR-708-3p	HSPA4L
95	hsa-miR-708-3p	CATSPERB
94	hsa-miR-708-3p	PPP1R15B
94	hsa-miR-708-3p	DDHD2
94	hsa-miR-708-3p	SLC25A46
93	hsa-miR-708-3p	PSIP1
93	hsa-miR-708-3p	CIAO2A
93	hsa-miR-708-3p	ZEB1
93	hsa-miR-708-3p	YWHAB
93	hsa-miR-708-3p	AP3M1
93	hsa-miR-708-3p	PPHLN1
92	hsa-miR-708-3p	USP42
92	hsa-miR-708-3p	CELF2
92	hsa-miR-708-3p	MSI2
92	hsa-miR-708-3p	POLR1D
92	hsa-miR-708-3p	CNST
92	hsa-miR-708-3p	PLPPR1
92	hsa-miR-708-3p	ETNK1
92	hsa-miR-708-3p	AKAP13
92	hsa-miR-708-3p	GLB1L3
91	hsa-miR-708-3p	METTL8
91	hsa-miR-708-3p	AQR
91	hsa-miR-708-3p	FADS1
91	hsa-miR-708-3p	ALCAM
91	hsa-miR-708-3p	PSAT1
91	hsa-miR-708-3p	PHF20L1
91	hsa-miR-708-3p	TRAPPC6B
91	hsa-miR-708-3p	RAD51AP1
91	hsa-miR-708-3p	ATG7
90	hsa-miR-708-3p	FGF14
90	hsa-miR-708-3p	CTTNBP2
90	hsa-miR-708-3p	ADAMTS3
90	hsa-miR-708-3p	ASAP1
89	hsa-miR-708-3p	ZNF518A
89	hsa-miR-708-3p	CAPZA2
89	hsa-miR-708-3p	CFAP298
89	hsa-miR-708-3p	DYNLT3
89	hsa-miR-708-3p	ABRAXAS2
89	hsa-miR-708-3p	ZFHX3
89	hsa-miR-708-3p	CXXC5
89	hsa-miR-708-3p	P2RY1
89	hsa-miR-708-3p	TBC1D30
89	hsa-miR-708-3p	GTPBP1

88	hsa-miR-708-3p	DHX40
88	hsa-miR-708-3p	RNF182
88	hsa-miR-708-3p	CDK13
88	hsa-miR-708-3p	CHRD1
88	hsa-miR-708-3p	HECA
88	hsa-miR-708-3p	LNP
88	hsa-miR-708-3p	SETMAR
88	hsa-miR-708-3p	AIG1
88	hsa-miR-708-3p	CDYL2
88	hsa-miR-708-3p	PLCB4
87	hsa-miR-708-3p	MAML3
87	hsa-miR-708-3p	LRRC59
87	hsa-miR-708-3p	LHX9
87	hsa-miR-708-3p	TENT4B
87	hsa-miR-708-3p	GP2
87	hsa-miR-708-3p	PTGER3
87	hsa-miR-708-3p	TJP1
87	hsa-miR-708-3p	ANKRD42
87	hsa-miR-708-3p	LARP4
86	hsa-miR-708-3p	DAAM2
86	hsa-miR-708-3p	EPB41L3
86	hsa-miR-708-3p	ATF7
86	hsa-miR-708-3p	BBX
86	hsa-miR-708-3p	RPTN
86	hsa-miR-708-3p	LPP
86	hsa-miR-708-3p	PLEKHH3
86	hsa-miR-708-3p	FGR
85	hsa-miR-708-3p	LDLRAD3
85	hsa-miR-708-3p	TMBIM6
85	hsa-miR-708-3p	VDAC2
85	hsa-miR-708-3p	TPGS2
85	hsa-miR-708-3p	TMF1
85	hsa-miR-708-3p	ARHGAP5
85	hsa-miR-708-3p	UNC79
85	hsa-miR-708-3p	TRIM9
85	hsa-miR-708-3p	SYTL4
85	hsa-miR-708-3p	NEFL
84	hsa-miR-708-3p	OTUD3
84	hsa-miR-708-3p	P2RY13
84	hsa-miR-708-3p	SDHAF3
84	hsa-miR-708-3p	ABCA5
84	hsa-miR-708-3p	C1GALT1
83	hsa-miR-708-3p	C7orf57
83	hsa-miR-708-3p	NEIL2
83	hsa-miR-708-3p	TOP3A
83	hsa-miR-708-3p	ZNF592
83	hsa-miR-708-3p	RHAG
83	hsa-miR-708-3p	BHLHB9
82	hsa-miR-708-3p	ARHGAP17
82	hsa-miR-708-3p	EMP1

82	hsa-miR-708-3p	SH3TC2
82	hsa-miR-708-3p	CLEC7A
81	hsa-miR-708-3p	ZDHHC23
81	hsa-miR-708-3p	XPO7
81	hsa-miR-708-3p	MYEF2
81	hsa-miR-708-3p	CLOCK
81	hsa-miR-708-3p	RGN
81	hsa-miR-708-3p	STRN3
81	hsa-miR-708-3p	GABBR1
81	hsa-miR-708-3p	ZNF687
81	hsa-miR-708-3p	CDH6
81	hsa-miR-708-3p	AHCYL2
80	hsa-miR-708-3p	STXBP4
80	hsa-miR-708-3p	SYT14
80	hsa-miR-708-3p	ABHD5
80	hsa-miR-708-3p	SENP6
80	hsa-miR-708-3p	DAZL
80	hsa-miR-708-3p	BORA
80	hsa-miR-708-3p	CDY1B
80	hsa-miR-708-3p	SOS2
80	hsa-miR-708-3p	CDY1
79	hsa-miR-708-3p	HNRNPF
79	hsa-miR-708-3p	MTMR1
79	hsa-miR-708-3p	HMGCR
79	hsa-miR-708-3p	SFT2D3
79	hsa-miR-708-3p	CDH2
79	hsa-miR-708-3p	SOCS6
79	hsa-miR-708-3p	SIX1
79	hsa-miR-708-3p	CDK19
78	hsa-miR-708-3p	TIAL1
78	hsa-miR-708-3p	KCNJ2
78	hsa-miR-708-3p	STK39
78	hsa-miR-708-3p	ANK3
78	hsa-miR-708-3p	TMCO1
78	hsa-miR-708-3p	PRKDC
78	hsa-miR-708-3p	ELL
78	hsa-miR-708-3p	KLHL15
77	hsa-miR-708-3p	RHO
77	hsa-miR-708-3p	KLHL6
77	hsa-miR-708-3p	PLA2G4D
77	hsa-miR-708-3p	FUT2
77	hsa-miR-708-3p	ZNF462
77	hsa-miR-708-3p	SETBP1
77	hsa-miR-708-3p	ZC3H12C
76	hsa-miR-708-3p	NLRP1
76	hsa-miR-708-3p	NDUFA7
76	hsa-miR-708-3p	LNPEP
76	hsa-miR-708-3p	BIVM
76	hsa-miR-708-3p	FMR1
76	hsa-miR-708-3p	FAM206A

75	hsa-miR-708-3p	CCER1
75	hsa-miR-708-3p	STXBP5
75	hsa-miR-708-3p	GAD1
75	hsa-miR-708-3p	ETV1
75	hsa-miR-708-3p	HIPK1
75	hsa-miR-708-3p	TSC1
75	hsa-miR-708-3p	CADM1
75	hsa-miR-708-3p	EIF5A2
75	hsa-miR-708-3p	ASTN2
75	hsa-miR-708-3p	KMT5A
74	hsa-miR-708-3p	ERBIN
74	hsa-miR-708-3p	CYGB
74	hsa-miR-708-3p	ALDH5A1
74	hsa-miR-708-3p	MEA1
74	hsa-miR-708-3p	NCOR1
74	hsa-miR-708-3p	RPS6KA6
74	hsa-miR-708-3p	NWD1
74	hsa-miR-708-3p	SHROOM4
74	hsa-miR-708-3p	REPS2
74	hsa-miR-708-3p	DST
74	hsa-miR-708-3p	HNRNPH1
74	hsa-miR-708-3p	ZSCAN21
73	hsa-miR-708-3p	PYGO1
73	hsa-miR-708-3p	SREK1
73	hsa-miR-708-3p	SYT1
73	hsa-miR-708-3p	UBE2L3
73	hsa-miR-708-3p	PRAMEF13
73	hsa-miR-708-3p	PAFAH2
73	hsa-miR-708-3p	HLF
73	hsa-miR-708-3p	PRAMEF14
73	hsa-miR-708-3p	OSGIN2
72	hsa-miR-708-3p	TDG
72	hsa-miR-708-3p	ANKRD26
72	hsa-miR-708-3p	GP1BA
72	hsa-miR-708-3p	CREBZF
72	hsa-miR-708-3p	IRS1
72	hsa-miR-708-3p	CNTN4
71	hsa-miR-708-3p	GCLM
71	hsa-miR-708-3p	TKTL2
71	hsa-miR-708-3p	RASL12
71	hsa-miR-708-3p	MMAA
71	hsa-miR-708-3p	OTUD7B
71	hsa-miR-708-3p	LRCH2
71	hsa-miR-708-3p	RHOBTB1
71	hsa-miR-708-3p	CSTF2T
71	hsa-miR-708-3p	ATRNL
71	hsa-miR-708-3p	FUNDC2
71	hsa-miR-708-3p	RARS2
71	hsa-miR-708-3p	PKNOX1
71	hsa-miR-708-3p	CMTM4

70	hsa-miR-708-3p	C8orf44-SGK3
70	hsa-miR-708-3p	SGK3
70	hsa-miR-708-3p	AK4
70	hsa-miR-708-3p	PIN1
70	hsa-miR-708-3p	DCTN5
70	hsa-miR-708-3p	RNF170
70	hsa-miR-708-3p	CFAP61
70	hsa-miR-708-3p	AQP4
70	hsa-miR-708-3p	FGFR2
70	hsa-miR-708-3p	MYO5A
69	hsa-miR-708-3p	LSM8
69	hsa-miR-708-3p	ZCCHC13
69	hsa-miR-708-3p	ZNF284
69	hsa-miR-708-3p	AMMECR1L
69	hsa-miR-708-3p	CCDC177
69	hsa-miR-708-3p	MARCH6
69	hsa-miR-708-3p	TBCK
69	hsa-miR-708-3p	ZNF664
69	hsa-miR-708-3p	TRIM33
69	hsa-miR-708-3p	TPT1
69	hsa-miR-708-3p	CLDN10
69	hsa-miR-708-3p	PLSCR1
69	hsa-miR-708-3p	LAMP3
68	hsa-miR-708-3p	KCNS1
68	hsa-miR-708-3p	SNAPIN
68	hsa-miR-708-3p	UBXN10
68	hsa-miR-708-3p	CPB2
68	hsa-miR-708-3p	FXR1
68	hsa-miR-708-3p	TMEM200A
68	hsa-miR-708-3p	RAB33B
68	hsa-miR-708-3p	ZNF608
68	hsa-miR-708-3p	TRIM71
68	hsa-miR-708-3p	PTPN14
67	hsa-miR-708-3p	VGLL3
67	hsa-miR-708-3p	MAGI3
67	hsa-miR-708-3p	ZFX
67	hsa-miR-708-3p	CCND2
67	hsa-miR-708-3p	MXI1
66	hsa-miR-708-3p	SH3RF1
66	hsa-miR-708-3p	COL6A6
66	hsa-miR-708-3p	CNNM3
66	hsa-miR-708-3p	PUM1
66	hsa-miR-708-3p	NAALAD2
66	hsa-miR-708-3p	ATP2B4
66	hsa-miR-708-3p	RPP25
66	hsa-miR-708-3p	ADAM17
66	hsa-miR-708-3p	NOS1
66	hsa-miR-708-3p	CER1
66	hsa-miR-708-3p	PCSK6
66	hsa-miR-708-3p	KIF5C

66	hsa-miR-708-3p	NLRP9
66	hsa-miR-708-3p	TMEM106B
66	hsa-miR-708-3p	ANKIB1
66	hsa-miR-708-3p	CNPY1
65	hsa-miR-708-3p	COL10A1
65	hsa-miR-708-3p	PHLDB2
65	hsa-miR-708-3p	EIF3J
65	hsa-miR-708-3p	METAP2
65	hsa-miR-708-3p	DACH1
65	hsa-miR-708-3p	DYRK2
65	hsa-miR-708-3p	PLAA
65	hsa-miR-708-3p	TMEM167A
65	hsa-miR-708-3p	FCRLA
65	hsa-miR-708-3p	MCTS1
65	hsa-miR-708-3p	RFC3
65	hsa-miR-708-3p	EIF4E3
65	hsa-miR-708-3p	CDC42SE1
65	hsa-miR-708-3p	TSLP
65	hsa-miR-708-3p	MIER1
65	hsa-miR-708-3p	DHX29
64	hsa-miR-708-3p	ZNF720
64	hsa-miR-708-3p	KIF9
64	hsa-miR-708-3p	CDKN2B
64	hsa-miR-708-3p	KDM5B
64	hsa-miR-708-3p	CNOT6L
64	hsa-miR-708-3p	STX7
64	hsa-miR-708-3p	SHPRH
64	hsa-miR-708-3p	CDK5RAP3
64	hsa-miR-708-3p	ZNF449
64	hsa-miR-708-3p	FKBP14
64	hsa-miR-708-3p	LARP6
64	hsa-miR-708-3p	CAP2
64	hsa-miR-708-3p	MID2
63	hsa-miR-708-3p	ZMAT1
63	hsa-miR-708-3p	DEPDC1
63	hsa-miR-708-3p	SMAD9
63	hsa-miR-708-3p	FAM126B
63	hsa-miR-708-3p	ATF7IP
63	hsa-miR-708-3p	IFIT1
63	hsa-miR-708-3p	RRAS2
63	hsa-miR-708-3p	G3BP2
63	hsa-miR-708-3p	USP30
63	hsa-miR-708-3p	PURA
63	hsa-miR-708-3p	ATP2A2
63	hsa-miR-708-3p	ZDHHC17
63	hsa-miR-708-3p	GRIA3
62	hsa-miR-708-3p	ARNTL2
62	hsa-miR-708-3p	NDUFA5
62	hsa-miR-708-3p	PWWP2A
62	hsa-miR-708-3p	PUDP

62	hsa-miR-708-3p	YPEL2
62	hsa-miR-708-3p	GABRB1
62	hsa-miR-708-3p	TMEM161B
62	hsa-miR-708-3p	MTMR6
62	hsa-miR-708-3p	STK35
62	hsa-miR-708-3p	CFAP300
62	hsa-miR-708-3p	ATE1
62	hsa-miR-708-3p	SYN3
62	hsa-miR-708-3p	FOXO3
61	hsa-miR-708-3p	PDP2
61	hsa-miR-708-3p	DAZ1
61	hsa-miR-708-3p	ELF1
61	hsa-miR-708-3p	RAB6D
61	hsa-miR-708-3p	CHST6
61	hsa-miR-708-3p	ZNF670
61	hsa-miR-708-3p	ITGA4
61	hsa-miR-708-3p	SLC14A1
61	hsa-miR-708-3p	DAZ3
61	hsa-miR-708-3p	POU4F2
61	hsa-miR-708-3p	ADNP
61	hsa-miR-708-3p	UGT3A2
61	hsa-miR-708-3p	REEP3
61	hsa-miR-708-3p	SGCB

## Gene Description

secretory carrier membrane protein 1  
jumonji and AT-rich interaction domain containing 2  
TNF receptor associated factor 3  
vimentin  
bromodomain adjacent to zinc finger domain 1B  
sprouty related EVH1 domain containing 1  
heat shock protein family A (Hsp70) member 4 like  
cation channel sperm associated auxiliary subunit beta  
protein phosphatase 1 regulatory subunit 15B  
DDHD domain containing 2  
solute carrier family 25 member 46  
PC4 and SFRS1 interacting protein 1  
cytosolic iron-sulfur assembly component 2A  
zinc finger E-box binding homeobox 1  
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein beta  
adaptor related protein complex 3 subunit mu 1  
periphilin 1  
ubiquitin specific peptidase 42  
CUGBP Elav-like family member 2  
musashi RNA binding protein 2  
RNA polymerase I and III subunit D  
consortin, connexin sorting protein  
phospholipid phosphatase related 1  
ethanolamine kinase 1  
A-kinase anchoring protein 13  
galactosidase beta 1 like 3  
methyltransferase like 8  
aquarius intron-binding spliceosomal factor  
fatty acid desaturase 1  
activated leukocyte cell adhesion molecule  
phosphoserine aminotransferase 1  
PHD finger protein 20 like 1  
trafficking protein particle complex 6B  
RAD51 associated protein 1  
autophagy related 7  
fibroblast growth factor 14  
cortactin binding protein 2  
ADAM metallopeptidase with thrombospondin type 1 motif 3  
ArfGAP with SH3 domain, ankyrin repeat and PH domain 1  
zinc finger protein 518A  
capping actin protein of muscle Z-line subunit alpha 2  
cilia and flagella associated protein 298  
dynein light chain Tctex-type 3  
abraxas 2, BRISC complex subunit  
zinc finger homeobox 3  
CXXC finger protein 5  
purinergic receptor P2Y1  
TBC1 domain family member 30  
GTP binding protein 1

DEAH-box helicase 40  
ring finger protein 182  
cyclin dependent kinase 13  
chordin like 1  
hdc homolog, cell cycle regulator  
lunapark, ER junction formation factor  
SET domain and mariner transposase fusion gene  
androgen induced 1  
chromodomain Y like 2  
phospholipase C beta 4  
mastermind like transcriptional coactivator 3  
leucine rich repeat containing 59  
LIM homeobox 9  
terminal nucleotidyltransferase 4B  
glycerol-3-phosphate dehydrogenase 2  
prostaglandin E receptor 3  
tight junction protein 1  
ankyrin repeat domain 42  
La ribonucleoprotein domain family member 4  
dishevelled associated activator of morphogenesis 2  
erythrocyte membrane protein band 4.1 like 3  
activating transcription factor 7  
BBX, HMG-box containing  
repetin  
LIM domain containing preferred translocation partner in lipoma  
pleckstrin homology, MyTH4 and FERM domain containing H3  
FGR proto-oncogene, Src family tyrosine kinase  
low density lipoprotein receptor class A domain containing 3  
transmembrane BAX inhibitor motif containing 6  
voltage dependent anion channel 2  
tubulin polyglutamylase complex subunit 2  
TATA element modulatory factor 1  
Rho GTPase activating protein 5  
unc-79 homolog, NALCN channel complex subunit  
tripartite motif containing 9  
synaptotagmin like 4  
neurofilament light  
OTU deubiquitinase 3  
purinergic receptor P2Y13  
succinate dehydrogenase complex assembly factor 3  
ATP binding cassette subfamily A member 5  
core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase 1  
chromosome 7 open reading frame 57  
nei like DNA glycosylase 2  
DNA topoisomerase III alpha  
zinc finger protein 592  
Rh associated glycoprotein  
basic helix-loop-helix family member b9  
Rho GTPase activating protein 17  
epithelial membrane protein 1

SH3 domain and tetratricopeptide repeats 2  
C-type lectin domain containing 7A  
zinc finger DHHC-type containing 23  
exportin 7  
myelin expression factor 2  
clock circadian regulator  
regucalcin  
striatin 3  
gamma-aminobutyric acid type B receptor subunit 1  
zinc finger protein 687  
cadherin 6  
adenosylhomocysteinase like 2  
syntaxin binding protein 4  
synaptotagmin 14  
abhydrolase domain containing 5  
SUMO specific peptidase 6  
deleted in azoospermia like  
bora, aurora kinase A activator  
chromodomain Y-linked 1B  
SOS Ras/Rho guanine nucleotide exchange factor 2  
chromodomain Y-linked 1  
heterogeneous nuclear ribonucleoprotein F  
myotubularin related protein 1  
3-hydroxy-3-methylglutaryl-CoA reductase  
SFT2 domain containing 3  
cadherin 2  
suppressor of cytokine signaling 6  
SIX homeobox 1  
cyclin dependent kinase 19  
TIA1 cytotoxic granule associated RNA binding protein like 1  
potassium voltage-gated channel subfamily J member 2  
serine/threonine kinase 39  
ankyrin 3  
transmembrane and coiled-coil domains 1  
protein kinase, DNA-activated, catalytic subunit  
elongation factor for RNA polymerase II  
kelch like family member 15  
rhodopsin  
kelch like family member 6  
phospholipase A2 group IVD  
fucosyltransferase 2  
zinc finger protein 462  
SET binding protein 1  
zinc finger CCCH-type containing 12C  
NLR family pyrin domain containing 1  
NADH:ubiquinone oxidoreductase subunit A7  
leucyl and cystinyl aminopeptidase  
basic, immunoglobulin-like variable motif containing  
fragile X mental retardation 1  
family with sequence similarity 206 member A

coiled-coil glutamate rich protein 1  
syntaxin binding protein 5  
glutamate decarboxylase 1  
ETS variant 1  
homeodomain interacting protein kinase 1  
TSC complex subunit 1  
cell adhesion molecule 1  
eukaryotic translation initiation factor 5A2  
astrotactin 2  
lysine methyltransferase 5A  
erbb2 interacting protein  
cytoglobin  
aldehyde dehydrogenase 5 family member A1  
male-enhanced antigen 1  
nuclear receptor corepressor 1  
ribosomal protein S6 kinase A6  
NACHT and WD repeat domain containing 1  
shroom family member 4  
RALBP1 associated Eps domain containing 2  
dystonin  
heterogeneous nuclear ribonucleoprotein H1  
zinc finger and SCAN domain containing 21  
pygopus family PHD finger 1  
splicing regulatory glutamic acid and lysine rich protein 1  
synaptotagmin 1  
ubiquitin conjugating enzyme E2 L3  
PRAME family member 13  
platelet activating factor acetylhydrolase 2  
HLF, PAR bZIP transcription factor  
PRAME family member 14  
oxidative stress induced growth inhibitor family member 2  
thymine DNA glycosylase  
ankyrin repeat domain 26  
glycoprotein Ib platelet subunit alpha  
CREB/ATF bZIP transcription factor  
insulin receptor substrate 1  
contactin 4  
glutamate-cysteine ligase modifier subunit  
transketolase like 2  
RAS like family 12  
metabolism of cobalamin associated A  
OTU deubiquitinase 7B  
leucine rich repeats and calponin homology domain containing 2  
Rho related BTB domain containing 1  
cleavage stimulation factor subunit 2 tau variant  
attractin  
FUN14 domain containing 2  
arginyl-tRNA synthetase 2, mitochondrial  
PBX/knotted 1 homeobox 1  
CKLF like MARVEL transmembrane domain containing 4

C8orf44-SGK3 readthrough  
serum/glucocorticoid regulated kinase family member 3  
adenylate kinase 4  
peptidylprolyl cis/trans isomerase, NIMA-interacting 1  
dynactin subunit 5  
ring finger protein 170  
cilia and flagella associated protein 61  
aquaporin 4  
fibroblast growth factor receptor 2  
myosin VA  
LSM8 homolog, U6 small nuclear RNA associated  
zinc finger CCHC-type containing 13  
zinc finger protein 284  
AMMECR1 like  
coiled-coil domain containing 177  
membrane associated ring-CH-type finger 6  
TBC1 domain containing kinase  
zinc finger protein 664  
tripartite motif containing 33  
tumor protein, translationally-controlled 1  
claudin 10  
phospholipid scramblase 1  
lysosomal associated membrane protein 3  
potassium voltage-gated channel modifier subfamily S member 1  
SNAP associated protein  
UBX domain protein 10  
carboxypeptidase B2  
FMR1 autosomal homolog 1  
transmembrane protein 200A  
RAB33B, member RAS oncogene family  
zinc finger protein 608  
tripartite motif containing 71  
protein tyrosine phosphatase, non-receptor type 14  
vestigial like family member 3  
membrane associated guanylate kinase, WW and PDZ domain containing 3  
zinc finger protein X-linked  
cyclin D2  
MAX interactor 1, dimerization protein  
SH3 domain containing ring finger 1  
collagen type VI alpha 6 chain  
cyclin and CBS domain divalent metal cation transport mediator 3  
pumilio RNA binding family member 1  
N-acetylated alpha-linked acidic dipeptidase 2  
ATPase plasma membrane Ca<sup>2+</sup> transporting 4  
ribonuclease P and MRP subunit p25  
ADAM metallopeptidase domain 17  
nitric oxide synthase 1  
cerberus 1, DAN family BMP antagonist  
proprotein convertase subtilisin/kexin type 6  
kinesin family member 5C

NLR family pyrin domain containing 9  
transmembrane protein 106B  
ankyrin repeat and IBR domain containing 1  
canopy FGF signaling regulator 1  
collagen type X alpha 1 chain  
pleckstrin homology like domain family B member 2  
eukaryotic translation initiation factor 3 subunit J  
methionyl aminopeptidase 2  
dachshund family transcription factor 1  
dual specificity tyrosine phosphorylation regulated kinase 2  
phospholipase A2 activating protein  
transmembrane protein 167A  
Fc receptor like A  
MCTS1, re-initiation and release factor  
replication factor C subunit 3  
eukaryotic translation initiation factor 4E family member 3  
CDC42 small effector 1  
thymic stromal lymphopoietin  
MIER1 transcriptional regulator  
DEXH-box helicase 29  
zinc finger protein 720  
kinesin family member 9  
cyclin dependent kinase inhibitor 2B  
lysine demethylase 5B  
CCR4-NOT transcription complex subunit 6 like  
syntaxin 7  
SNF2 histone linker PHD RING helicase  
CDK5 regulatory subunit associated protein 3  
zinc finger protein 449  
FKBP prolyl isomerase 14  
La ribonucleoprotein domain family member 6  
cyclase associated actin cytoskeleton regulatory protein 2  
midline 2  
zinc finger matrin-type 1  
DEP domain containing 1  
SMAD family member 9  
family with sequence similarity 126 member B  
activating transcription factor 7 interacting protein  
interferon induced protein with tetratricopeptide repeats 1  
RAS related 2  
G3BP stress granule assembly factor 2  
ubiquitin specific peptidase 30  
purine rich element binding protein A  
ATPase sarcoplasmic/endoplasmic reticulum Ca<sup>2+</sup> transporting 2  
zinc finger DHHC-type containing 17  
glutamate ionotropic receptor AMPA type subunit 3  
aryl hydrocarbon receptor nuclear translocator like 2  
NADH:ubiquinone oxidoreductase subunit A5  
PWWP domain containing 2A  
pseudouridine 5'-phosphatase

yippee like 2  
gamma-aminobutyric acid type A receptor beta1 subunit  
transmembrane protein 161B  
myotubularin related protein 6  
serine/threonine kinase 35  
cilia and flagella associated protein 300  
arginyltransferase 1  
synapsin III  
forkhead box O3  
pyruvate dehydrogenase phosphatase catalytic subunit 2  
deleted in azoospermia 1  
E74 like ETS transcription factor 1  
RAB6D, member RAS oncogene family  
carbohydrate sulfotransferase 6  
zinc finger protein 670  
integrin subunit alpha 4  
solute carrier family 14 member 1 (Kidd blood group)  
deleted in azoospermia 3  
POU class 4 homeobox 2  
activity dependent neuroprotector homeobox  
UDP glycosyltransferase family 3 member A2  
receptor accessory protein 3  
sarcoglycan beta

Target Score	miRNA Name	Gene Symbol
90	hsa-miR-4508	SALL3
88	hsa-miR-4508	ANXA11
83	hsa-miR-4508	BOK
82	hsa-miR-4508	TBX1
80	hsa-miR-4508	PLCB2
79	hsa-miR-4508	FOXN3
79	hsa-miR-4508	ZFR2
79	hsa-miR-4508	LYPLA2
78	hsa-miR-4508	TOR4A
76	hsa-miR-4508	EMD
73	hsa-miR-4508	TBX4
72	hsa-miR-4508	ARHGAP39
72	hsa-miR-4508	NAPA
71	hsa-miR-4508	SLC43A3
71	hsa-miR-4508	CC2D1A
70	hsa-miR-4508	NFIX
70	hsa-miR-4508	SLC12A4
70	hsa-miR-4508	RHOC
69	hsa-miR-4508	PLCH2
69	hsa-miR-4508	ADD1
69	hsa-miR-4508	RRBP1
68	hsa-miR-4508	C15orf32
68	hsa-miR-4508	PRR36
68	hsa-miR-4508	RBF3X
67	hsa-miR-4508	KCNAB3
67	hsa-miR-4508	SLC7A5
66	hsa-miR-4508	RELT
66	hsa-miR-4508	ATG4B
66	hsa-miR-4508	FGD6
65	hsa-miR-4508	VWA3A
65	hsa-miR-4508	PRX
65	hsa-miR-4508	FARSB
65	hsa-miR-4508	VANGL2
64	hsa-miR-4508	CYGB
64	hsa-miR-4508	MSC
64	hsa-miR-4508	SLC9A3
64	hsa-miR-4508	CST3
63	hsa-miR-4508	NXPH3
62	hsa-miR-4508	LRRC10
62	hsa-miR-4508	DNM1L
62	hsa-miR-4508	TMEM63B
62	hsa-miR-4508	EPS8L3
61	hsa-miR-4508	CXCR1
61	hsa-miR-4508	FAAP20
61	hsa-miR-4508	VWA1
61	hsa-miR-4508	ZG16
61	hsa-miR-4508	Orai2
61	hsa-miR-4508	MORN1
61	hsa-miR-4508	FAM78A



## Gene Description

spalt like transcription factor 3  
annexin A11  
BCL2 family apoptosis regulator BOK  
T-box 1  
phospholipase C beta 2  
forkhead box N3  
zinc finger RNA binding protein 2  
lysophospholipase 2  
torsin family 4 member A  
emerin  
T-box 4  
Rho GTPase activating protein 39  
NSF attachment protein alpha  
solute carrier family 43 member 3  
coiled-coil and C2 domain containing 1A  
nuclear factor I X  
solute carrier family 12 member 4  
ras homolog family member C  
phospholipase C eta 2  
adducin 1  
ribosome binding protein 1  
chromosome 15 open reading frame 32  
proline rich 36  
RNA binding fox-1 homolog 3  
potassium voltage-gated channel subfamily A regulatory beta subunit 3  
solute carrier family 7 member 5  
RELT, TNF receptor  
autophagy related 4B cysteine peptidase  
FYVE, RhoGEF and PH domain containing 6  
von Willebrand factor A domain containing 3A  
periaxin  
phenylalanyl-tRNA synthetase subunit beta  
VANGL planar cell polarity protein 2  
cytoglobin  
musculin  
solute carrier family 9 member A3  
cystatin C  
neurexophilin 3  
leucine rich repeat containing 10  
dynamin 1 like  
transmembrane protein 63B  
EPS8 like 3  
C-X-C motif chemokine receptor 1  
FA core complex associated protein 20  
von Willebrand factor A domain containing 1  
zymogen granule protein 16  
ORAI calcium release-activated calcium modulator 2  
MORN repeat containing 1  
family with sequence similarity 78 member A

paired box 2