

Table 1 miRNAs targeted genes prediction in three databases

miRNA	Gene
hsa-miR-1299	CCT5
hsa-miR-1299	ZC3H4
hsa-miR-1299	HMCN1
hsa-miR-1299	ZFP36
hsa-miR-1299	ZNF850
hsa-miR-1299	GTF3C4
hsa-miR-1299	ATP1B3
hsa-miR-1299	ADAMTS5
hsa-miR-1299	PPP1R11
hsa-miR-1306-5p	KIAA1549
hsa-miR-1306-5p	AKIRIN1
hsa-miR-1306-5p	SRGAP1
hsa-miR-1306-5p	GRWD1
hsa-miR-1306-5p	HLCS
hsa-miR-1306-5p	FBXO44
hsa-miR-1306-5p	HES2
hsa-miR-1306-5p	MRPS14
hsa-miR-1306-5p	KCNK6
hsa-miR-1306-5p	TRIM65
hsa-miR-1306-5p	PLGRKT
hsa-miR-1306-5p	TET3
hsa-miR-1306-5p	TMEM167A
hsa-miR-1976	GALNT6
hsa-miR-1976	DCTN5
hsa-miR-1976	IRGQ
hsa-miR-1976	CREM
hsa-miR-1976	KCTD20
hsa-miR-1976	TMEM231
hsa-miR-1976	PRKCA
hsa-miR-1976	MPRIIP
hsa-miR-1976	PPP1R3B
hsa-miR-1976	SPTY2D1
hsa-miR-1976	POLR2E
hsa-miR-1976	KIAA1614
hsa-miR-1976	POFUT1
hsa-miR-1976	CORO2A
hsa-miR-1976	C3orf62
hsa-miR-1976	ZDHHC15
hsa-miR-1976	ABHD15
hsa-miR-1976	TCEANC2
hsa-miR-1976	RXRA

hsa-miR-1976	ORAI2
hsa-miR-1976	TMCO1
hsa-miR-1976	PISD
hsa-miR-1976	KIF14
hsa-miR-1976	IKZF3
hsa-miR-1976	POC1A
hsa-miR-1976	AP1S3
hsa-miR-1976	WDR92
hsa-miR-298	RNF185
hsa-miR-298	SKIL
hsa-miR-298	SRRM4
hsa-miR-298	RNF165
hsa-miR-298	MAP1B
hsa-miR-298	UBTF
hsa-miR-298	WDTC1
hsa-miR-298	PPP1R11
hsa-miR-298	EIF2AK2
hsa-miR-298	ZBTB10
hsa-miR-298	MIER1
hsa-miR-298	PTPRF
hsa-miR-298	ST3GAL5
hsa-miR-298	HJURP
hsa-miR-298	COMMD5
hsa-miR-298	TOMM5
hsa-miR-298	NECAB3
hsa-miR-298	CDKN1A
hsa-miR-298	HAP1
hsa-miR-298	RBM47
hsa-miR-298	DYRK1A
hsa-miR-3145-5p	ZNF800
hsa-miR-3145-5p	MDM2
hsa-miR-3145-5p	SKIDA1
hsa-miR-3145-5p	TMOD2
hsa-miR-3145-5p	CCSER2
hsa-miR-3145-5p	C2CD2L
hsa-miR-3145-5p	NFIA
hsa-miR-3148	CCDC6
hsa-miR-3148	AMOTL1
hsa-miR-3148	SSU72
hsa-miR-3148	PTP4A2
hsa-miR-3148	LACC1
hsa-miR-3148	TMEM164
hsa-miR-3148	CD55
hsa-miR-3148	RNF44

hsa-miR-3148	ZBTB10
hsa-miR-3148	NPPC
hsa-miR-3148	ZNF236
hsa-miR-3148	RAD21
hsa-miR-3148	UNC119B
hsa-miR-3148	SLC5A3
hsa-miR-3148	STMN1
hsa-miR-3148	ARL11
hsa-miR-3148	ZXDB
hsa-miR-3148	HAPLN1
hsa-miR-3148	CD2AP
hsa-miR-3148	TAB2
hsa-miR-3148	APPL1
hsa-miR-3148	ZMAT3
hsa-miR-3148	TNFAIP1
hsa-miR-3148	MALT1
hsa-miR-3148	CITED2
hsa-miR-3148	H1FO
hsa-miR-3148	OCLN
hsa-miR-3148	USP45
hsa-miR-3148	PCNT
hsa-miR-3148	FBN2
hsa-miR-3148	PPIL4
hsa-miR-3148	DLC1
hsa-miR-3148	TP53INP1
hsa-miR-3148	NCL
hsa-miR-3148	UBE2D1
hsa-miR-3148	SLC6A8
hsa-miR-3148	YTHDF1
hsa-miR-3148	CALR
hsa-miR-3148	SLC16A1
hsa-miR-3148	ADAMTS5
hsa-miR-3148	KLHL12
hsa-miR-3148	TNRC6A
hsa-miR-3148	TET3
hsa-miR-3148	SLC7A1
hsa-miR-3148	ZYG11B
hsa-miR-3148	ENTHD1
hsa-miR-3148	AMER1
hsa-miR-3148	PPP1CB
hsa-miR-3148	SOX6
hsa-miR-3148	GABRB1
hsa-miR-3148	ABCC9
hsa-miR-3148	PTP4A1

hsa-miR-3148	VIM
hsa-miR-3148	PTMA
hsa-miR-3148	ATRAID
hsa-miR-3148	KLHL28
hsa-miR-3148	TRAPPC8
hsa-miR-3148	PALM2
hsa-miR-3148	CYB5B
hsa-miR-3148	ZFP91
hsa-miR-3148	SGPL1
hsa-miR-3148	CREBRF
hsa-miR-3148	MED30
hsa-miR-3148	FAM160B1
hsa-miR-3148	UBXN7
hsa-miR-3148	ZFP36L1
hsa-miR-3148	PNISR
hsa-miR-3148	DYNC1LI2
hsa-miR-3148	WWTR1
hsa-miR-3148	SET
hsa-miR-3148	H3F3A
hsa-miR-3148	ALKBH5
hsa-miR-3148	TM9SF3
hsa-miR-3148	CTNND1
hsa-miR-3148	MAX
hsa-miR-3148	PAFAH1B2
hsa-miR-3148	CCDC71L
hsa-miR-3148	CDC27
hsa-miR-3148	LIMCH1
hsa-miR-3148	CPEB3
hsa-miR-3148	TBL1XR1
hsa-miR-3148	TPM4
hsa-miR-3148	ATP6V1G1
hsa-miR-3148	SESN3
hsa-miR-3148	SLC25A36
hsa-miR-3148	NXT2
hsa-miR-3194-3p	ZNF74
hsa-miR-3194-3p	MLEC
hsa-miR-3194-3p	ERGIC1
hsa-miR-3194-3p	RAB11FIP1
hsa-miR-3194-3p	SNAP29
hsa-miR-3194-3p	PLEKHM3
hsa-miR-3194-3p	TBPL1
hsa-miR-3653-5p	SSPN
hsa-miR-3653-5p	DSTYK
hsa-miR-3653-5p	IVD

hsa-miR-3653-5p	PAG1
hsa-miR-3653-5p	HM13
hsa-miR-3653-5p	ALDH5A1
hsa-miR-3653-5p	RBM20
hsa-miR-3653-5p	HFE
hsa-miR-3653-5p	PLEKHM3
hsa-miR-3653-5p	TGFA
hsa-miR-3653-5p	MICALL1
hsa-miR-3653-5p	TTPAL
hsa-miR-3653-5p	NWD1
hsa-miR-3653-5p	TMEM231
hsa-miR-3653-5p	TRIM65
hsa-miR-3653-5p	CCBE1
hsa-miR-3653-5p	ABL2
hsa-miR-3653-5p	CLUAP1
hsa-miR-3653-5p	PDE4C
hsa-miR-3978	FAM160B1
hsa-miR-3978	RCC2
hsa-miR-3978	AK2
hsa-miR-3978	MTF1
hsa-miR-3978	ATXN7
hsa-miR-3978	CREBL2
hsa-miR-3978	UBXN2B
hsa-miR-3978	RAP1B
hsa-miR-3978	ADM
hsa-miR-3978	PLEKHF2
hsa-miR-3978	DCK
hsa-miR-3978	PSAT1
hsa-miR-4314	DSCR3
hsa-miR-4314	6-Sep
hsa-miR-4314	AP1M1
hsa-miR-4314	PIK3C2B
hsa-miR-4314	UBXN2A
hsa-miR-4314	APOLD1
hsa-miR-4314	TBL1XR1
hsa-miR-4433a-3p	SRGAP1
hsa-miR-4433a-3p	LSM3
hsa-miR-4433a-3p	LAMC1
hsa-miR-4433a-3p	CEBPD
hsa-miR-4433a-3p	CS
hsa-miR-4433a-3p	APOBEC3F
hsa-miR-4433a-3p	C1orf174
hsa-miR-4433a-3p	SLC27A1
hsa-miR-4433a-3p	ZNF329

hsa-miR-4433a-3p	SGPL1
hsa-miR-4433a-3p	RAD21
hsa-miR-4433a-3p	GNAS
hsa-miR-4433a-3p	AHCYL2
hsa-miR-4459	LUC7L
hsa-miR-4459	BTG2
hsa-miR-4459	KIAA0513
hsa-miR-4459	ALKBH5
hsa-miR-4459	AOC3
hsa-miR-4459	RAB2A
hsa-miR-4459	SLC27A1
hsa-miR-4459	NF2
hsa-miR-4459	SOAT1
hsa-miR-4459	CERS1
hsa-miR-4459	RAB40C
hsa-miR-4459	ZNF710
hsa-miR-4459	TAF8
hsa-miR-4459	RNF144B
hsa-miR-4459	MTMR10
hsa-miR-4459	AHCYL2
hsa-miR-4459	DIAPH1
hsa-miR-4459	HIF3A
hsa-miR-4459	P2RY2
hsa-miR-4459	APAF1
hsa-miR-4459	KLF13
hsa-miR-4459	PHF12
hsa-miR-4459	UMPS
hsa-miR-4459	KLHL25
hsa-miR-4459	RNF24
hsa-miR-4459	MKNK2
hsa-miR-4459	MAPK1
hsa-miR-4459	SMAD7
hsa-miR-4459	ZNF527
hsa-miR-4459	HAUS5
hsa-miR-4459	TMEM86A
hsa-miR-4459	MTFMT
hsa-miR-4459	BTRC
hsa-miR-4459	MIDN
hsa-miR-4459	VASH1
hsa-miR-4459	TEDDM1
hsa-miR-4459	GNL3L
hsa-miR-4459	APOBEC3F
hsa-miR-4459	TMEM59
hsa-miR-4459	AREL1

hsa-miR-4459	LONRF1
hsa-miR-4459	NCR3LG1
hsa-miR-4459	RAB15
hsa-miR-4459	CASKIN1
hsa-miR-4459	TBC1D24
hsa-miR-4459	GRSF1
hsa-miR-4459	DDX52
hsa-miR-4459	SLC24A4
hsa-miR-4459	FBXO44
hsa-miR-4459	ZNF850
hsa-miR-4459	CDCA8
hsa-miR-4459	VPS52
hsa-miR-4459	SNRPD3
hsa-miR-4459	UGGT1
hsa-miR-4459	SKIL
hsa-miR-4459	FNBP1
hsa-miR-4459	KREMEN1
hsa-miR-4459	PSME3
hsa-miR-4459	CCL22
hsa-miR-4459	STMN1
hsa-miR-4459	SLC25A17
hsa-miR-4459	BZW1
hsa-miR-4486	ZCCHC8
hsa-miR-4486	YES1
hsa-miR-4486	INMT
hsa-miR-4486	NOM1
hsa-miR-4486	PDE6B
hsa-miR-4486	ORC1
hsa-miR-4486	NF2
hsa-miR-4486	KIAA0754
hsa-miR-4486	PPIL6
hsa-miR-4486	LIX1L
hsa-miR-4486	PXMP4
hsa-miR-4486	HP1BP3
hsa-miR-4486	SLC16A4
hsa-miR-4486	STIL
hsa-miR-4486	PIGR
hsa-miR-4486	MDM2
hsa-miR-4486	LYZ
hsa-miR-4486	PTGIS
hsa-miR-4486	TBCCD1
hsa-miR-4486	UFM1
hsa-miR-4486	ASB6
hsa-miR-4486	PAICS

hsa-miR-4486	ALDH1B1
hsa-miR-4486	HOOK3
hsa-miR-449b-3p	MSL1
hsa-miR-449b-3p	CERK
hsa-miR-449b-3p	CREBRF
hsa-miR-449b-3p	TMEM127
hsa-miR-449b-3p	TMED3
hsa-miR-449b-3p	NPPC
hsa-miR-449b-3p	MAPK1
hsa-miR-449b-3p	WDR37
hsa-miR-449b-3p	HCFC2
hsa-miR-449b-3p	ZNF76
hsa-miR-449b-3p	DLG4
hsa-miR-449b-3p	TAGLN2
hsa-miR-449b-3p	RAB1A
hsa-miR-4681	SNRPB
hsa-miR-4699-5p	ACTB
hsa-miR-4699-5p	ARL5B
hsa-miR-4699-5p	DRP2
hsa-miR-4700-3p	COL4A3BP
hsa-miR-4700-3p	MORF4L2
hsa-miR-4700-3p	RRM2
hsa-miR-4700-3p	TXNIP
hsa-miR-4700-3p	MRRF
hsa-miR-4700-3p	KPNA4
hsa-miR-4700-3p	BICD2
hsa-miR-4700-3p	KLHDC10
hsa-miR-4700-3p	CMTM4
hsa-miR-4700-3p	MAU2
hsa-miR-4700-3p	CAB39
hsa-miR-4768-3p	ARHGDI1A
hsa-miR-4768-3p	SERP1
hsa-miR-4768-3p	GSTCD
hsa-miR-4768-3p	FEM1A
hsa-miR-4768-3p	LRTOMT
hsa-miR-4768-3p	TBL1XR1
hsa-miR-4768-3p	DNALI1
hsa-miR-4768-3p	SLC25A32
hsa-miR-4768-3p	SLC35F6
hsa-miR-4768-3p	TFDP2
hsa-miR-4768-3p	PACSIN1
hsa-miR-4768-3p	UTP15
hsa-miR-4768-3p	RRM2
hsa-miR-4768-3p	FAM168A

hsa-miR-4768-3p	TOR1AIP2
hsa-miR-4768-3p	MSL2
hsa-miR-4768-3p	SLC19A3
hsa-miR-4768-3p	CCDC68
hsa-miR-4768-3p	SLC35F1
hsa-miR-4768-3p	MTFMT
hsa-miR-4768-3p	PTBP2
hsa-miR-4768-3p	FZD4
hsa-miR-4768-3p	RHD
hsa-miR-4768-3p	SLC24A4
hsa-miR-4768-3p	FAM208A
hsa-miR-4768-3p	HEYL
hsa-miR-4768-3p	PIM2
hsa-miR-4768-3p	CENPQ
hsa-miR-4768-3p	ASB6
hsa-miR-4768-3p	CPT1A
hsa-miR-4768-3p	SUN2
hsa-miR-4768-3p	ZNF490
hsa-miR-4768-3p	TRIB3
hsa-miR-4768-3p	TSPYL1
hsa-miR-4768-3p	ZSWIM1
hsa-miR-4768-3p	CD3EAP
hsa-miR-4768-3p	SNX27
hsa-miR-4768-3p	BCR
hsa-miR-4768-3p	GRAMD4
hsa-miR-4768-3p	AHCYL2
hsa-miR-4768-3p	ARHGAP39
hsa-miR-4768-3p	BPNT1
hsa-miR-4768-3p	LRTM2
hsa-miR-4768-3p	PARD6B
hsa-miR-4768-3p	SENP1
hsa-miR-4768-3p	IRGQ
hsa-miR-4768-3p	LIX1L
hsa-miR-4768-3p	UBE2N
hsa-miR-4768-3p	SFMBT2
hsa-miR-4768-3p	BROX
hsa-miR-4768-3p	PGPEP1
hsa-miR-4768-3p	BTG2
hsa-miR-4768-3p	NID1
hsa-miR-4768-3p	TERF2
hsa-miR-4768-3p	SVOP
hsa-miR-4768-3p	MAPK1
hsa-miR-4768-3p	PISD
hsa-miR-4786-3p	ATP13A4

hsa-miR-4786-3p	NUP50
hsa-miR-4786-3p	YPEL2
hsa-miR-4786-3p	WIPI2
hsa-miR-4786-3p	FOXO3
hsa-miR-4786-3p	RP1L1
hsa-miR-4786-3p	ANKRD24
hsa-miR-4786-3p	COLGALT1
hsa-miR-4786-3p	ZNF207
hsa-miR-4786-3p	SLC7A1
hsa-miR-4786-3p	TMEM167A
hsa-miR-4786-3p	TAGLN2
hsa-miR-4786-3p	FANCA
hsa-miR-4786-3p	POLD3
hsa-miR-4786-3p	TEX35
hsa-miR-4786-3p	3-Sep
hsa-miR-4786-3p	LGR4
hsa-miR-4786-3p	PRPF4B
hsa-miR-4786-3p	ANKRD26
hsa-miR-4786-3p	PTBP1
hsa-miR-4786-3p	PPP1R15B
hsa-miR-4786-3p	SHOC2
hsa-miR-494-3p	SYNCRIP
hsa-miR-494-3p	SHOC2
hsa-miR-494-3p	TFAM
hsa-miR-494-3p	AGPS
hsa-miR-494-3p	CMPK1
hsa-miR-494-3p	PROS1
hsa-miR-494-3p	HOXA10
hsa-miR-494-3p	RB1
hsa-miR-494-3p	ARSJ
hsa-miR-494-3p	ATF3
hsa-miR-494-3p	RAD23B
hsa-miR-494-3p	PITX2
hsa-miR-494-3p	PTEN
hsa-miR-494-3p	GLO1
hsa-miR-494-3p	IGF1R
hsa-miR-494-3p	DSG2
hsa-miR-494-3p	CFTR
hsa-miR-494-3p	PTPN14
hsa-miR-494-3p	PTPN12
hsa-miR-494-3p	ARNTL
hsa-miR-494-3p	RAP1B
hsa-miR-494-3p	SLC26A3
hsa-miR-494-3p	ARHGAP5

hsa-miR-508-5p	FUT1
hsa-miR-508-5p	ZBTB44
hsa-miR-508-5p	SHE
hsa-miR-508-5p	SKIDA1
hsa-miR-508-5p	DYNLL2
hsa-miR-508-5p	PSAT1
hsa-miR-508-5p	TBXA2R
hsa-miR-508-5p	PRRG4
hsa-miR-508-5p	ZYG11A
hsa-miR-508-5p	ICMT
hsa-miR-508-5p	TAF8
hsa-miR-516b-5p	FSD2
hsa-miR-516b-5p	GYS1
hsa-miR-516b-5p	KLHL15
hsa-miR-516b-5p	RBM47
hsa-miR-516b-5p	ZNFX1
hsa-miR-5193	MAT2A
hsa-miR-5193	PEA15
hsa-miR-5193	ARRDC3
hsa-miR-5193	C15orf52
hsa-miR-5193	SLC22A6
hsa-miR-5193	MCL1
hsa-miR-5193	GRM1
hsa-miR-5193	UST
hsa-miR-5193	HIVEP3
hsa-miR-5193	TMEM151A
hsa-miR-5193	MYOZ3
hsa-miR-5193	ST3GAL2
hsa-miR-5193	AMZ1
hsa-miR-5193	PRKAG1
hsa-miR-5193	NKD1
hsa-miR-5193	LIF
hsa-miR-5193	NAV1
hsa-miR-5193	FAM208A
hsa-miR-5193	NFAM1
hsa-miR-5193	TLCD2
hsa-miR-5193	ING1
hsa-miR-5193	PABPN1
hsa-miR-5193	SNW1
hsa-miR-5193	AMOTL1
hsa-miR-5193	AFF1
hsa-miR-5193	FAM20B
hsa-miR-5193	SPANXN5
hsa-miR-5193	SLC38A5

hsa-miR-5193	PALD1
hsa-miR-5197-3p	ZNF706
hsa-miR-5197-3p	KIF5B
hsa-miR-5197-3p	ETNK1
hsa-miR-5197-3p	PTGFRN
hsa-miR-5197-3p	DDT
hsa-miR-5197-3p	BCOR
hsa-miR-5197-3p	A1CF
hsa-miR-5197-3p	MECP2
hsa-miR-5197-3p	MIER1
hsa-miR-5197-3p	RPH3A
hsa-miR-5197-3p	SLC25A36
hsa-miR-5197-3p	RNF165
hsa-miR-5197-3p	PLXNA2
hsa-miR-5197-3p	TRAF6
hsa-miR-5197-3p	RAB5B
hsa-miR-5197-3p	RAB10
hsa-miR-5197-3p	RABL2A
hsa-miR-5197-3p	CUL3
hsa-miR-5197-3p	WIPF2
hsa-miR-5197-3p	MAPRE1
hsa-miR-5197-3p	KMT2D
hsa-miR-5197-3p	RPS6KA3
hsa-miR-5197-3p	WDR26
hsa-miR-5197-3p	ACVR1
hsa-miR-5582-3p	CCDC117
hsa-miR-5582-3p	TVP23B
hsa-miR-5582-3p	FOXN2
hsa-miR-5582-3p	SUB1
hsa-miR-5582-3p	NLN
hsa-miR-5582-3p	CBFB
hsa-miR-5582-3p	TRUB1
hsa-miR-5582-3p	ERP44
hsa-miR-5582-3p	STK17A
hsa-miR-5582-3p	RCC2
hsa-miR-5582-3p	OTUD4
hsa-miR-5582-3p	ZNF106
hsa-miR-5582-3p	TVP23C
hsa-miR-5582-3p	TBL1XR1
hsa-miR-5582-3p	ANKIB1
hsa-miR-5582-3p	SLC16A1
hsa-miR-5582-3p	PRLR
hsa-miR-5582-3p	CLOCK
hsa-miR-5582-3p	PDGFRA

hsa-miR-5582-3p	P2RY10
hsa-miR-5582-3p	SPC25
hsa-miR-5582-3p	HMG2
hsa-miR-5582-3p	PTPRG
hsa-miR-5582-3p	ARPP19
hsa-miR-5582-3p	PTAR1
hsa-miR-5582-3p	DENND4C
hsa-miR-5582-3p	NUDT21
hsa-miR-5582-3p	SYNCRIP
hsa-miR-5582-3p	ELK4
hsa-miR-5582-3p	YWHAZ
hsa-miR-5582-3p	PKN2
hsa-miR-5582-3p	APOPT1
hsa-miR-5582-3p	ZYG11B
hsa-miR-5582-3p	GRAMD1C
hsa-miR-5582-3p	LARP1
hsa-miR-5582-3p	PAFAH1B1
hsa-miR-5582-3p	ADAMTS5
hsa-miR-5582-3p	PSPC1
hsa-miR-5582-3p	YOD1
hsa-miR-5582-3p	LIN7C
hsa-miR-5582-3p	DGKE
hsa-miR-5582-3p	CDC14B
hsa-miR-5582-3p	JMY
hsa-miR-5582-3p	MLLT10
hsa-miR-5582-3p	FKBP1A
hsa-miR-5582-3p	MKNK2
hsa-miR-5582-3p	ACSL3
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