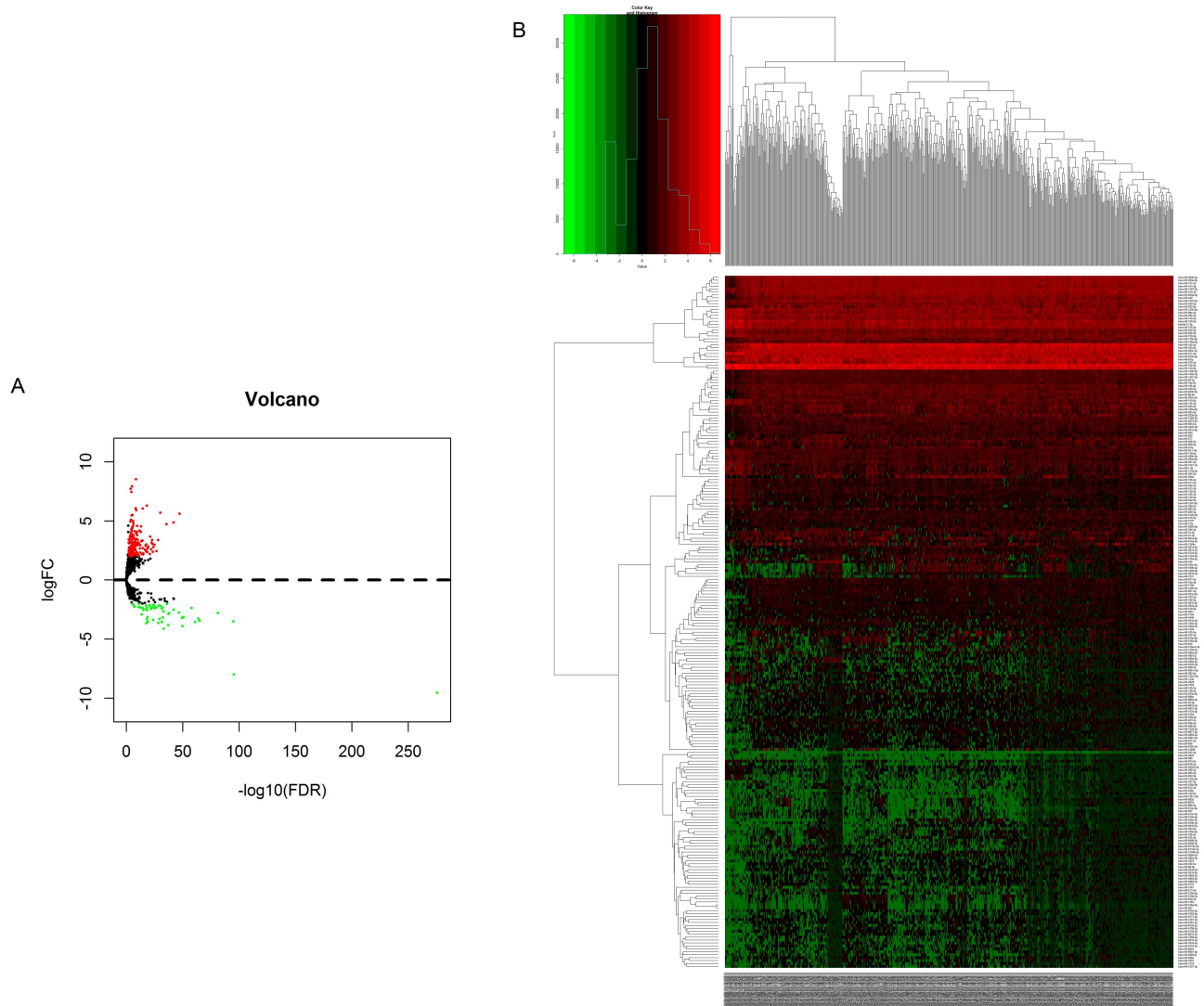
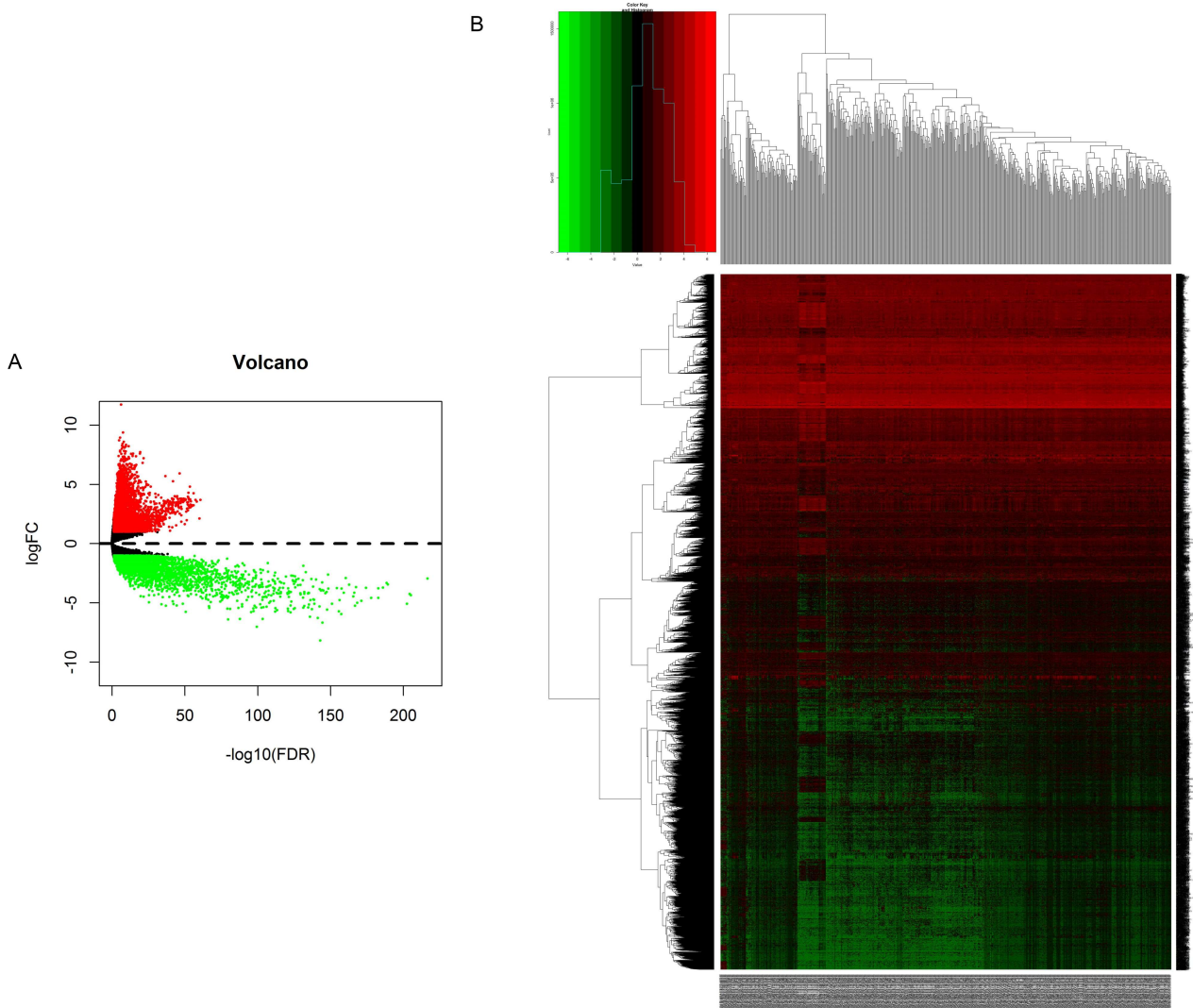


Supplementary materials

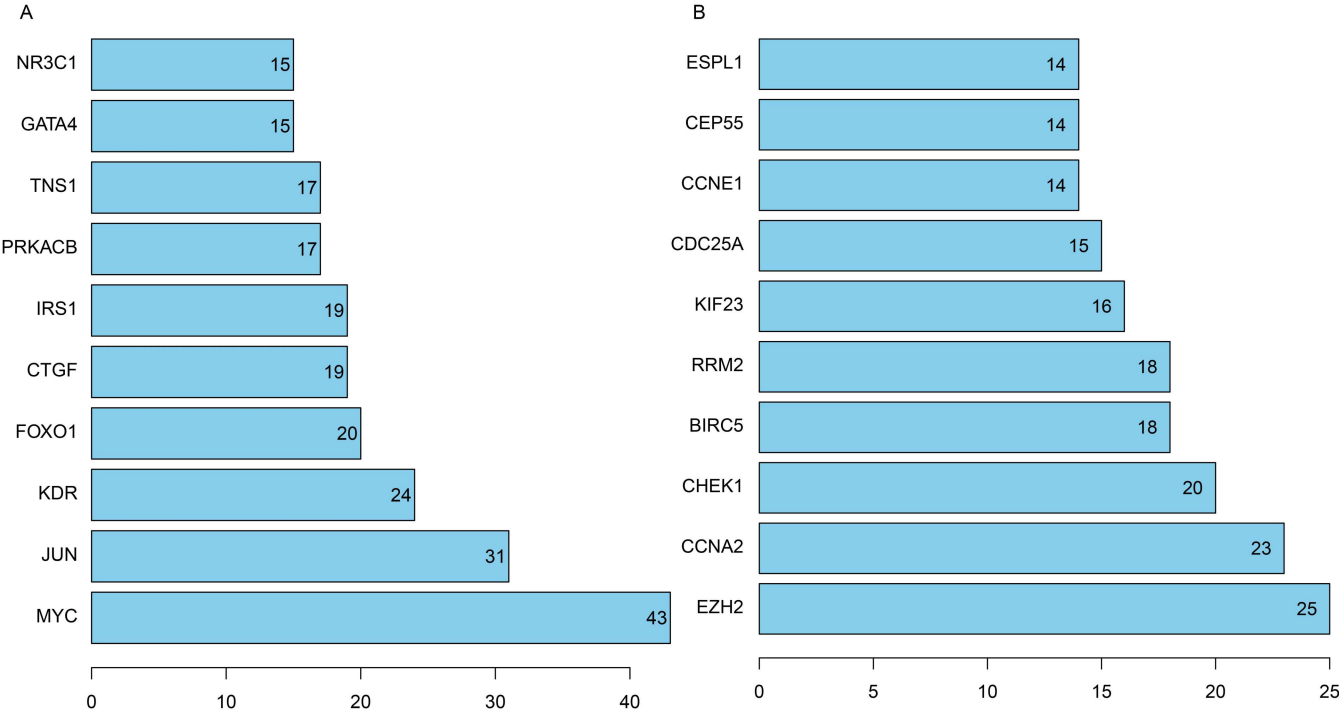
Supplemental Fig.1



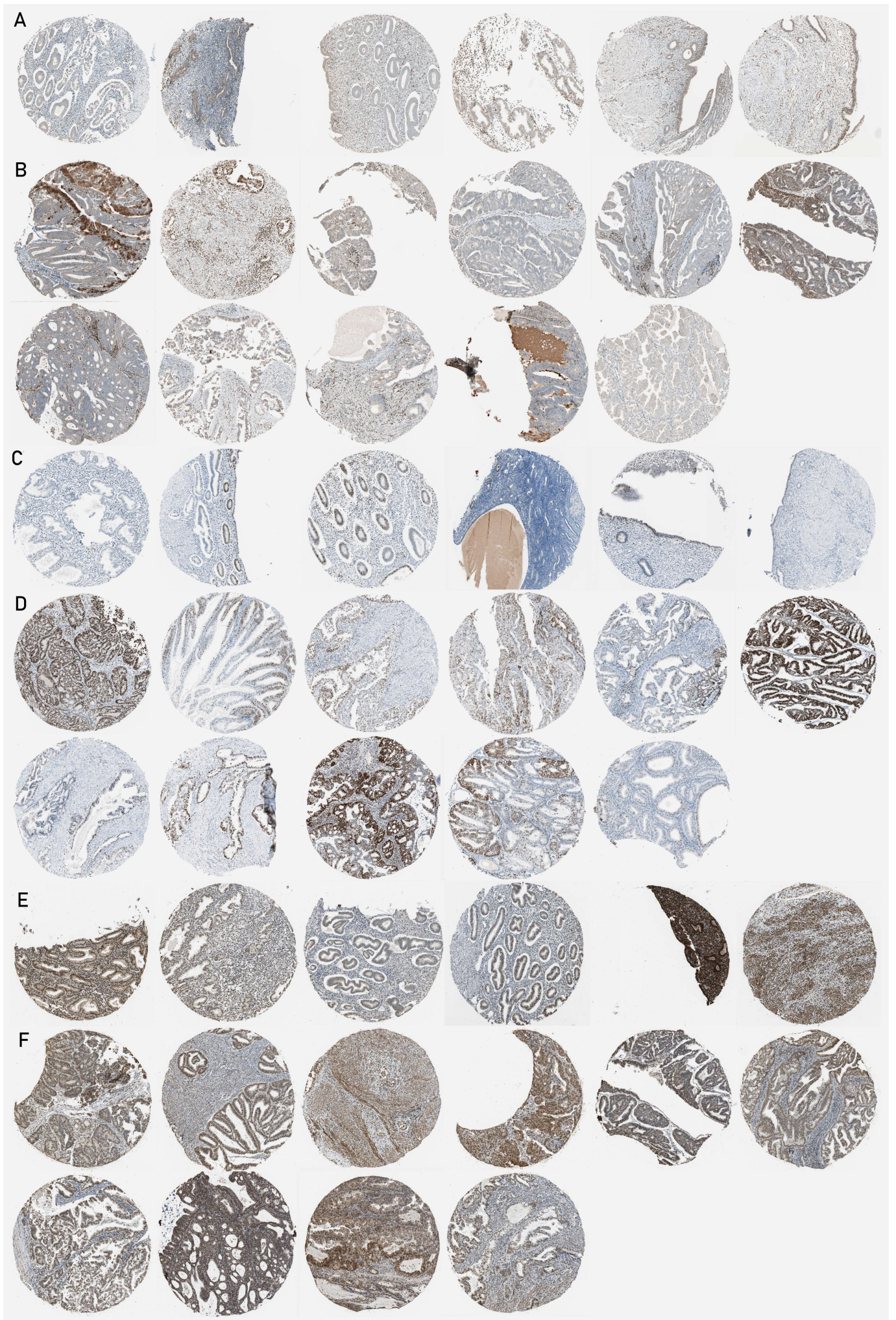
Supplemental Fig. 2



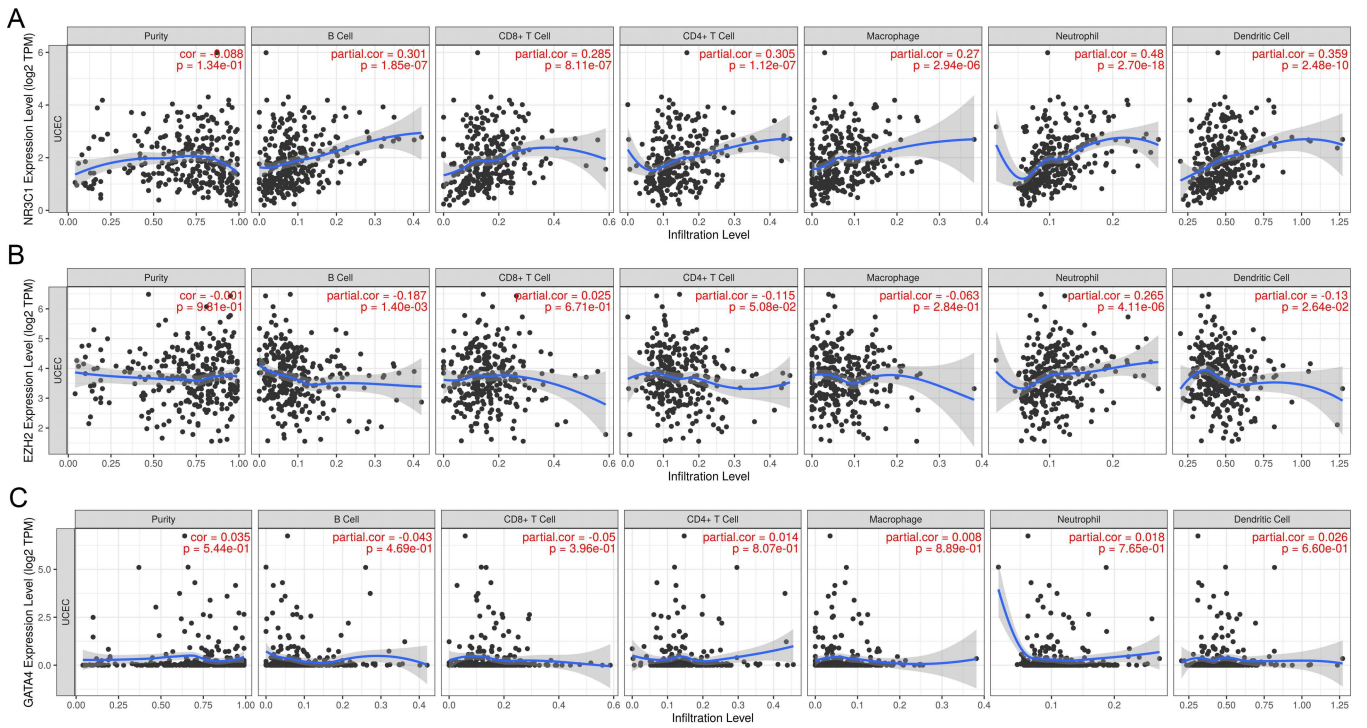
Supplemental Fig. 3



Supplemental Fig. 4



Supplemental Fig. 5



1 **Supplemental figure legends**

2

3 **Supplemental Fig. 1** (A) Volcano Plot of differentially expressed miRNAs.

4 Abscissa axis: \log_2 (FC); Vertical axis: $-\log_{10}$ (FDR); Green: downregulated

5 miRNAs; Red: upregulated miRNAs; Black: no significant differences in

6 miRNAs expression. (B) Heat map of differentially expressed miRNAs.

7 Green: downregulated miRNAs; Red: upregulated miRNAs. FDR: false

8 discovery rate; FC: fold change.

9

10 **Supplemental Fig. 2** (A) Volcano Plot of differentially expressed mRNAs.

11 Abscissa axis: \log_2 (FC); Vertical axis: $-\log_{10}$ (FDR); Green: downregulated

12 mRNAs; Red: upregulated mRNAs; Black: no significantly differences in

13 mRNA expression. (B) Heat map of differentially expressed mRNAs.

14 Green: downregulated mRNAs; Red: upregulated miRNAs.

15

16 **Supplemental Fig. 3** The top 10 hub genes of upregulated(A) and

17 downregulated(B) DE-miRNAs.

18

19 **Supplemental Fig. 4** IHC data from the Human Protein Atlas. High

20 expression of NR3C1, EZH2, and GATA4 in normal endometrial tissues

21 (Supplemental Fig. 4A, 4C, and 4E) than in EC tissues (Supplemental Fig.

22 4B, 4D, and 4F).

1

2 **Supplemental Fig. 5** The validation in TIMER 2.0 between the
3 tumor-infiltrating immune cells and the three hub genes, NR3C1, EZH2,
4 as well as GATA4. (A-C) shows the correlation between each
5 tumor-infiltrating immune cell and three hub genes.

6

Supplemental Table 1 Sequences of primers for qRT-PCR

Name	Sequence
Hsa-miR-18a-5p	
Forward	CGGGCTAAGGTGCATCTAGTG
Reverse	CCTGTTGTCTCCAGCCACAAAAGAGCACAATATTTTCAGGAGA CAACAGGCTAACTG
Hsa-miR-449c -5p	
Forward	CGGGCTAGGCAGTGTATTGCTAG
Reverse	CCTGTTGTCTCCAGCCACAAAAGAGCACAATATTTTCAGGAGA CAACAGGACAGCCG
Hsa-miR-1224-5p	
Forward	CGGGCGTGAGGACTCGG
Reverse	CCTGTTGTCTCCAGCCACAAAAGAGCACAATATTTTCAGGAGA CAACAGGCCACCTC
Hsa-miR-636	
Forward	CGGGCTGTGCTTGCTCGTCCC
Reverse	CCTGTTGTCTCCAGCCACAAAAGAGCACAATATTTTCAGGAGA CAACAGGTGCGGGC
Hsa-miR-6715a-3p	
Forward	CGGGCCCAAACCAGTCGTG
Reverse	CCTGTTGTCTCCAGCCACAAAAGAGCACAATATTTTCAGGAGA CAACAGGCCACAGG

U6	
Forward	CTCGCTTCGGCAGCACA
Reverse	AACGCTTCACGAATTTGCGT
CTGF	
Forward	CAGCATGGACGTTTCGTCTG
Reverse	AACCACGGTTTGGTCCTTGG
NR3C1	
Forward	ACAGCATCCCTTTCTCAACAG
Reverse	AGATCCTTGGCACCTATTCCAAT
FOXO1	
Forward	CGGCTTCGGCTCTTAGCAA
Reverse	TCGTCATAATCTGTCCCTACACA
PRKACB	
Forward	CCATGCACGGTTCTATGCAG
Reverse	GTCTGTGACCTGGATATAGCCTT
MYC	
Forward	GCCACGTCTCCACACATCAG
Reverse	TCTTGGCAGCAGGATAGTCCTT
TNS1	
Forward	AGCGGAGACCTGACATCAC
Reverse	CGGTTTCCCTTGTTGTGTAGAAC
GAPDH	

Forward	ATCAATGGAAATCCCATCACCA
Reverse	GACTCCACGACGTACTCAGCG

Supplemental Table 2 Target genes for upregulated and downregulated miRNAs

target-up miRNA	Gene	miRDB	miRTarBas	TargetScar	Sum
hsa-miR-1248	ZYG11B	1	1	1	3
hsa-miR-940	ZSCAN29	1	1	1	3
hsa-miR-940	ZNRF3	1	1	1	3
hsa-miR-3619-5p	ZNRF1	1	1	1	3
hsa-miR-20b-5p	ZNFX1	1	1	1	3
hsa-miR-106a-5p	ZNFX1	1	1	1	3
hsa-miR-183-3p	ZNF99	1	1	1	3
hsa-miR-135b-3p	ZNF99	1	1	1	3
hsa-miR-219a-2-3p	ZNF99	1	1	1	3
hsa-miR-548d-3p	ZNF845	1	1	1	3
hsa-miR-3614-5p	ZNF831	1	1	1	3
hsa-miR-892a	ZNF805	1	1	1	3
hsa-miR-31-5p	ZNF805	1	1	1	3
hsa-miR-301b-3p	ZNF800	1	1	1	3
hsa-miR-20b-5p	ZNF800	1	1	1	3
hsa-miR-130b-3p	ZNF800	1	1	1	3
hsa-miR-3662	ZNF800	1	1	1	3
hsa-miR-1229-3p	ZNF781	1	1	1	3
hsa-miR-1229-3p	ZNF780A	1	1	1	3
hsa-miR-449b-3p	ZNF76	1	1	1	3
hsa-miR-130b-3p	ZNF711	1	1	1	3
hsa-miR-301b-3p	ZNF711	1	1	1	3
hsa-miR-4446-3p	ZNF704	1	1	1	3
hsa-miR-3662	ZNF680	1	1	1	3
hsa-miR-200a-5p	ZNF675	1	1	1	3
hsa-miR-449a	ZNF644	1	1	1	3
hsa-miR-18b-3p	ZNF644	1	1	1	3
hsa-miR-449b-5p	ZNF644	1	1	1	3
hsa-miR-3619-5p	ZNF641	1	1	1	3
hsa-miR-877-3p	ZNF629	1	1	1	3
hsa-miR-940	ZNF609	1	1	1	3
hsa-miR-3065-5p	ZNF585B	1	1	1	3
hsa-miR-216b-5p	ZNF566	1	1	1	3
hsa-miR-3150b-3p	ZNF561	1	1	1	3
hsa-miR-449a	ZNF551	1	1	1	3
hsa-miR-106a-5p	ZNF532	1	1	1	3
hsa-miR-20b-5p	ZNF532	1	1	1	3
hsa-miR-548f-3p	ZNF451	1	1	1	3
hsa-miR-6499-3p	ZNF449	1	1	1	3
hsa-miR-9-5p	ZNF407	1	1	1	3
hsa-miR-526b-5p	ZNF37A	1	1	1	3
hsa-miR-18a-5p	ZNF367	1	1	1	3
hsa-miR-18b-5p	ZNF367	1	1	1	3
hsa-miR-3161	ZNF367	1	1	1	3
hsa-miR-7-5p	ZNF365	1	1	1	3
hsa-miR-1301-3p	ZNF333	1	1	1	3
hsa-miR-6815-3p	ZNF331	1	1	1	3
hsa-miR-1266-5p	ZNF3	1	1	1	3
hsa-miR-301a-5p	ZNF286A	1	1	1	3
hsa-miR-301b-5p	ZNF286A	1	1	1	3
hsa-miR-6499-3p	ZNF281	1	1	1	3
hsa-miR-20b-5p	ZNF280B	1	1	1	3
hsa-miR-1224-5p	ZNF275	1	1	1	3
hsa-miR-7-5p	ZNF275	1	1	1	3
hsa-miR-522-3p	ZNF275	1	1	1	3
hsa-miR-18a-3p	ZNF275	1	1	1	3

hsa-miR-556-5p	ZNF268	1	1	1	3
hsa-miR-629-3p	ZNF266	1	1	1	3
hsa-miR-6715a-3p	ZNF264	1	1	1	3
hsa-miR-6715b-3p	ZNF264	1	1	1	3
hsa-miR-183-3p	ZNF257	1	1	1	3
hsa-miR-200a-5p	ZNF254	1	1	1	3
hsa-miR-130b-3p	ZNF217	1	1	1	3
hsa-miR-200c-3p	ZNF217	1	1	1	3
hsa-miR-891b	ZNF207	1	1	1	3
hsa-miR-106a-5p	ZNF202	1	1	1	3
hsa-miR-20b-5p	ZNF202	1	1	1	3
hsa-miR-1229-3p	ZNF195	1	1	1	3
hsa-miR-877-5p	ZNF174	1	1	1	3
hsa-miR-9-3p	ZNF148	1	1	1	3
hsa-miR-135b-3p	ZNF138	1	1	1	3
hsa-miR-183-3p	ZNF138	1	1	1	3
hsa-miR-512-3p	ZNF12	1	1	1	3
hsa-miR-1224-5p	ZNF117	1	1	1	3
hsa-miR-183-3p	ZNF117	1	1	1	3
hsa-miR-7-5p	ZNF106	1	1	1	3
hsa-miR-138-5p	ZMYND11	1	1	1	3
hsa-miR-3065-5p	ZMYM6	1	1	1	3
hsa-miR-518a-5p	ZMAT3	1	1	1	3
hsa-miR-526b-5p	ZMAT3	1	1	1	3
hsa-miR-130b-3p	ZMAT3	1	1	1	3
hsa-miR-301b-3p	ZMAT3	1	1	1	3
hsa-miR-200b-3p	ZMAT3	1	1	1	3
hsa-miR-200c-3p	ZMAT3	1	1	1	3
hsa-miR-215-5p	ZMAT3	1	1	1	3
hsa-miR-527	ZMAT3	1	1	1	3
hsa-miR-3662	ZMAT3	1	1	1	3
hsa-miR-429	ZMAT3	1	1	1	3
hsa-miR-1248	ZMAT1	1	1	1	3
hsa-miR-767-5p	ZKSCAN2	1	1	1	3
hsa-miR-1304-3p	ZKSCAN1	1	1	1	3
hsa-miR-106a-5p	ZFYVE9	1	1	1	3
hsa-miR-20b-5p	ZFYVE9	1	1	1	3
hsa-miR-301b-3p	ZFYVE9	1	1	1	3
hsa-miR-141-5p	ZFYVE9	1	1	1	3
hsa-miR-130b-3p	ZFYVE9	1	1	1	3
hsa-miR-526b-5p	ZFYVE9	1	1	1	3
hsa-miR-130b-3p	ZFYVE26	1	1	1	3
hsa-miR-301b-3p	ZFYVE26	1	1	1	3
hsa-miR-106a-5p	ZFYVE26	1	1	1	3
hsa-miR-20b-5p	ZFYVE26	1	1	1	3
hsa-miR-363-3p	ZFYVE21	1	1	1	3
hsa-miR-200b-3p	ZFPM2	1	1	1	3
hsa-miR-429	ZFPM2	1	1	1	3
hsa-miR-200c-3p	ZFPM2	1	1	1	3
hsa-miR-548f-3p	ZFP36L1	1	1	1	3
hsa-miR-4664-5p	ZFP3	1	1	1	3
hsa-miR-4449	ZFHX3	1	1	1	3
hsa-miR-211-5p	ZFHX3	1	1	1	3
hsa-miR-363-3p	ZFC3H1	1	1	1	3
hsa-miR-9-5p	ZFAND1	1	1	1	3
hsa-miR-200a-3p	ZEB2	1	1	1	3
hsa-miR-138-5p	ZEB2	1	1	1	3
hsa-miR-141-3p	ZEB2	1	1	1	3

hsa-miR-429	ZEB1	1	1	1	3
hsa-miR-205-5p	ZEB1	1	1	1	3
hsa-miR-183-5p	ZEB1	1	1	1	3
hsa-miR-96-5p	ZEB1	1	1	1	3
hsa-miR-141-3p	ZEB1	1	1	1	3
hsa-miR-200c-3p	ZEB1	1	1	1	3
hsa-miR-200a-3p	ZEB1	1	1	1	3
hsa-miR-200b-3p	ZEB1	1	1	1	3
hsa-miR-216b-5p	ZDHHC9	1	1	1	3
hsa-miR-363-3p	ZDHHC5	1	1	1	3
hsa-miR-548y	ZDHHC21	1	1	1	3
hsa-miR-548j-5p	ZDHHC21	1	1	1	3
hsa-miR-215-5p	ZDHHC2	1	1	1	3
hsa-miR-3616-5p	ZCCHC3	1	1	1	3
hsa-miR-211-5p	ZCCHC24	1	1	1	3
hsa-miR-1224-5p	ZCCHC14	1	1	1	3
hsa-miR-130b-3p	ZCCHC14	1	1	1	3
hsa-miR-3065-5p	ZC3HAV1	1	1	1	3
hsa-miR-7-5p	ZC3H4	1	1	1	3
hsa-miR-940	ZC3H4	1	1	1	3
hsa-miR-106a-5p	ZC3H12C	1	1	1	3
hsa-miR-20b-5p	ZC3H12C	1	1	1	3
hsa-miR-31-5p	ZC3H12C	1	1	1	3
hsa-miR-20b-5p	ZBTB9	1	1	1	3
hsa-miR-106a-5p	ZBTB7A	1	1	1	3
hsa-miR-4664-5p	ZBTB7A	1	1	1	3
hsa-miR-20b-5p	ZBTB7A	1	1	1	3
hsa-miR-18b-5p	ZBTB47	1	1	1	3
hsa-miR-6777-5p	ZBTB47	1	1	1	3
hsa-miR-18a-5p	ZBTB47	1	1	1	3
hsa-miR-106a-5p	ZBTB47	1	1	1	3
hsa-miR-3150b-3p	ZBTB44	1	1	1	3
hsa-miR-1226-3p	ZBTB40	1	1	1	3
hsa-miR-106a-5p	ZBTB4	1	1	1	3
hsa-miR-301b-3p	ZBTB4	1	1	1	3
hsa-miR-7974	ZBTB4	1	1	1	3
hsa-miR-20b-5p	ZBTB4	1	1	1	3
hsa-miR-130b-3p	ZBTB4	1	1	1	3
hsa-miR-527	ZBTB4	1	1	1	3
hsa-miR-518a-5p	ZBTB4	1	1	1	3
hsa-miR-4446-3p	ZBTB39	1	1	1	3
hsa-miR-141-3p	ZBTB34	1	1	1	3
hsa-miR-200a-3p	ZBTB34	1	1	1	3
hsa-miR-211-5p	ZBTB22	1	1	1	3
hsa-miR-7-5p	ZBTB22	1	1	1	3
hsa-miR-548y	ZBTB20	1	1	1	3
hsa-miR-548j-5p	ZBTB20	1	1	1	3
hsa-miR-20b-5p	ZBTB18	1	1	1	3
hsa-miR-130b-3p	ZBTB18	1	1	1	3
hsa-miR-1301-3p	ZBTB18	1	1	1	3
hsa-miR-301b-3p	ZBTB18	1	1	1	3
hsa-miR-106a-5p	ZBTB18	1	1	1	3
hsa-miR-3619-5p	ZBTB10	1	1	1	3
hsa-miR-9-5p	ZBED3	1	1	1	3
hsa-miR-130b-3p	YY1	1	1	1	3
hsa-miR-219a-2-3p	YY1	1	1	1	3
hsa-miR-548d-3p	YWHAZ	1	1	1	3
hsa-miR-934	YWHAZ	1	1	1	3

hsa-miR-892a	YWHAZ	1	1	1	3
hsa-miR-940	YWHAZ	1	1	1	3
hsa-miR-141-3p	YWHAG	1	1	1	3
hsa-miR-3662	YWHAЕ	1	1	1	3
hsa-miR-6891-5p	YWHAЕ	1	1	1	3
hsa-miR-203a-5p	YWHAЕ	1	1	1	3
hsa-miR-31-5p	YWHAЕ	1	1	1	3
hsa-miR-4724-5p	YTHDC1	1	1	1	3
hsa-miR-3614-3p	YOD1	1	1	1	3
hsa-miR-9-3p	YOD1	1	1	1	3
hsa-miR-106a-5p	YOD1	1	1	1	3
hsa-miR-20b-5p	YOD1	1	1	1	3
hsa-miR-363-3p	YIPF4	1	1	1	3
hsa-miR-345-5p	YEATS2	1	1	1	3
hsa-miR-141-3p	YAP1	1	1	1	3
hsa-miR-200a-3p	YAP1	1	1	1	3
hsa-miR-1301-3p	YAF2	1	1	1	3
hsa-miR-18a-5p	XYLT2	1	1	1	3
hsa-miR-449c-5p	XRCC6	1	1	1	3
hsa-miR-211-5p	WWC3	1	1	1	3
hsa-miR-215-5p	WNK1	1	1	1	3
hsa-miR-200c-3p	WIPF1	1	1	1	3
hsa-miR-940	WHAMM	1	1	1	3
hsa-miR-106a-5p	WEE1	1	1	1	3
hsa-miR-130b-3p	WEE1	1	1	1	3
hsa-miR-877-3p	WDR43	1	1	1	3
hsa-miR-20b-5p	WDR37	1	1	1	3
hsa-miR-449b-3p	WDR37	1	1	1	3
hsa-miR-548j-5p	WBP4	1	1	1	3
hsa-miR-548y	WBP4	1	1	1	3
hsa-miR-877-5p	WASL	1	1	1	3
hsa-miR-130b-3p	WASL	1	1	1	3
hsa-miR-363-3p	WASL	1	1	1	3
hsa-miR-301b-3p	WASL	1	1	1	3
hsa-miR-3065-5p	WASF3	1	1	1	3
hsa-miR-429	WASF3	1	1	1	3
hsa-miR-200b-3p	WASF3	1	1	1	3
hsa-miR-940	WASF2	1	1	1	3
hsa-miR-629-3p	WASF2	1	1	1	3
hsa-miR-20b-5p	WAC	1	1	1	3
hsa-miR-106a-5p	WAC	1	1	1	3
hsa-miR-363-3p	VPS4B	1	1	1	3
hsa-miR-4665-5p	VPS37D	1	1	1	3
hsa-miR-449b-5p	VPS37B	1	1	1	3
hsa-miR-449a	VPS37B	1	1	1	3
hsa-miR-130b-3p	VPS37A	1	1	1	3
hsa-miR-301b-3p	VPS37A	1	1	1	3
hsa-miR-940	VPS33A	1	1	1	3
hsa-miR-7-5p	VPS26A	1	1	1	3
hsa-miR-20b-5p	VPS26A	1	1	1	3
hsa-miR-20b-5p	VPS13C	1	1	1	3
hsa-miR-363-3p	VMA21	1	1	1	3
hsa-miR-18b-5p	VMA21	1	1	1	3
hsa-miR-18a-5p	VMA21	1	1	1	3
hsa-miR-548y	VLDLR	1	1	1	3
hsa-miR-548j-5p	VLDLR	1	1	1	3
hsa-miR-548d-3p	VKORC1L1	1	1	1	3
hsa-miR-6499-3p	VGLL4	1	1	1	3

hsa-miR-1304-3p	VEZT	1	1	1	3
hsa-miR-141-5p	VEGFA	1	1	1	3
hsa-miR-200c-3p	VEGFA	1	1	1	3
hsa-miR-205-5p	VEGFA	1	1	1	3
hsa-miR-200b-3p	VEGFA	1	1	1	3
hsa-miR-548j-5p	VDAC2	1	1	1	3
hsa-miR-548y	VDAC2	1	1	1	3
hsa-miR-3619-5p	VAV2	1	1	1	3
hsa-miR-636	VAT1	1	1	1	3
hsa-miR-5001-3p	VASH1	1	1	1	3
hsa-miR-1276	VANGL2	1	1	1	3
hsa-miR-940	VANGL1	1	1	1	3
hsa-miR-210-3p	VAMP4	1	1	1	3
hsa-miR-20b-5p	UXS1	1	1	1	3
hsa-miR-940	UTP15	1	1	1	3
hsa-miR-200a-3p	USP53	1	1	1	3
hsa-miR-141-3p	USP53	1	1	1	3
hsa-miR-6815-3p	USP46	1	1	1	3
hsa-miR-3662	USP45	1	1	1	3
hsa-miR-1276	USP44	1	1	1	3
hsa-miR-106a-5p	USP32	1	1	1	3
hsa-miR-301b-3p	USP32	1	1	1	3
hsa-miR-130b-3p	USP32	1	1	1	3
hsa-miR-20b-5p	USP32	1	1	1	3
hsa-miR-20b-5p	USP3	1	1	1	3
hsa-miR-20b-5p	USP28	1	1	1	3
hsa-miR-363-3p	USP28	1	1	1	3
hsa-miR-200c-3p	USP25	1	1	1	3
hsa-miR-301b-3p	USP13	1	1	1	3
hsa-miR-130b-3p	USP13	1	1	1	3
hsa-miR-4664-5p	USH1G	1	1	1	3
hsa-miR-3150b-3p	USB1	1	1	1	3
hsa-miR-130b-5p	UQCRB	1	1	1	3
hsa-miR-106a-5p	UNK	1	1	1	3
hsa-miR-636	UNK	1	1	1	3
hsa-miR-20b-5p	UNK	1	1	1	3
hsa-miR-888-5p	UNC80	1	1	1	3
hsa-miR-93-3p	UNC5C	1	1	1	3
hsa-miR-3150b-3p	UNC5B	1	1	1	3
hsa-miR-20b-5p	ULK1	1	1	1	3
hsa-miR-106a-5p	ULK1	1	1	1	3
hsa-miR-182-5p	ULBP2	1	1	1	3
hsa-miR-9-5p	UHMK1	1	1	1	3
hsa-miR-940	UGGT1	1	1	1	3
hsa-miR-3664-3p	UGGT1	1	1	1	3
hsa-miR-18a-3p	UBXN7	1	1	1	3
hsa-miR-877-3p	UBXN7	1	1	1	3
hsa-miR-363-3p	UBXN4	1	1	1	3
hsa-miR-7-5p	UBXN2B	1	1	1	3
hsa-miR-106a-5p	UBXN2A	1	1	1	3
hsa-miR-20b-5p	UBXN2A	1	1	1	3
hsa-miR-18a-5p	UBTD2	1	1	1	3
hsa-miR-7-5p	UBQLN4	1	1	1	3
hsa-miR-200c-3p	UBQLN1	1	1	1	3
hsa-miR-301b-3p	UBN2	1	1	1	3
hsa-miR-130b-3p	UBN2	1	1	1	3
hsa-miR-449a	UBL4A	1	1	1	3
hsa-miR-512-3p	UBL3	1	1	1	3

hsa-miR-9-5p	UBE4B	1	1	1	3
hsa-miR-363-3p	UBE2Z	1	1	1	3
hsa-miR-138-5p	UBE2V1	1	1	1	3
hsa-miR-20b-5p	UBE2Q2	1	1	1	3
hsa-miR-4665-5p	UBE2N	1	1	1	3
hsa-miR-3662	UBE2K	1	1	1	3
hsa-miR-200c-3p	UBE2I	1	1	1	3
hsa-miR-6844	UBE2H	1	1	1	3
hsa-miR-301b-3p	UBE2D2	1	1	1	3
hsa-miR-130b-3p	UBE2D2	1	1	1	3
hsa-miR-527	UBE2D2	1	1	1	3
hsa-miR-518a-5p	UBE2D2	1	1	1	3
hsa-miR-548d-3p	UBE2D1	1	1	1	3
hsa-miR-527	UBE2A	1	1	1	3
hsa-miR-518a-5p	UBE2A	1	1	1	3
hsa-miR-200a-3p	UBASH3B	1	1	1	3
hsa-miR-20b-5p	U2SURP	1	1	1	3
hsa-miR-3065-5p	U2SURP	1	1	1	3
hsa-miR-106a-5p	U2SURP	1	1	1	3
hsa-miR-548d-3p	U2SURP	1	1	1	3
hsa-miR-3187-3p	U2AF2	1	1	1	3
hsa-miR-3161	TYRP1	1	1	1	3
hsa-miR-20b-5p	TXNIP	1	1	1	3
hsa-miR-106a-5p	TXNIP	1	1	1	3
hsa-miR-20b-5p	TXLNA	1	1	1	3
hsa-miR-18a-5p	TWF1	1	1	1	3
hsa-miR-20b-5p	TWF1	1	1	1	3
hsa-miR-18b-5p	TWF1	1	1	1	3
hsa-miR-363-3p	TWF1	1	1	1	3
hsa-miR-363-3p	TULP4	1	1	1	3
hsa-miR-200b-3p	TUBB2A	1	1	1	3
hsa-miR-429	TUBB2A	1	1	1	3
hsa-miR-200c-3p	TUBB2A	1	1	1	3
hsa-miR-940	TUB	1	1	1	3
hsa-miR-556-5p	TTC33	1	1	1	3
hsa-miR-3065-5p	TTC26	1	1	1	3
hsa-miR-548f-3p	TTC26	1	1	1	3
hsa-miR-548d-3p	TSPAN3	1	1	1	3
hsa-miR-577	TSNAX	1	1	1	3
hsa-miR-449b-5p	TSN	1	1	1	3
hsa-miR-449a	TSN	1	1	1	3
hsa-miR-96-5p	TSKU	1	1	1	3
hsa-miR-20b-5p	TSG101	1	1	1	3
hsa-miR-106a-5p	TSG101	1	1	1	3
hsa-miR-203a-5p	TSC22D2	1	1	1	3
hsa-miR-767-5p	TRPS1	1	1	1	3
hsa-miR-9-5p	TRPM7	1	1	1	3
hsa-miR-301b-3p	TRPC3	1	1	1	3
hsa-miR-130b-3p	TRPC3	1	1	1	3
hsa-miR-301b-3p	TROVE2	1	1	1	3
hsa-miR-130b-3p	TROVE2	1	1	1	3
hsa-miR-205-3p	TROVE2	1	1	1	3
hsa-miR-548f-3p	TRMT5	1	1	1	3
hsa-miR-7-5p	TRMT13	1	1	1	3
hsa-miR-106a-5p	TRIP10	1	1	1	3
hsa-miR-20b-5p	TRIP10	1	1	1	3
hsa-miR-526b-5p	TRIM66	1	1	1	3
hsa-miR-934	TRIM42	1	1	1	3

hsa-miR-877-3p	TRIM39	1	1	1	3
hsa-miR-20b-5p	TRIM37	1	1	1	3
hsa-miR-130b-3p	TRIM37	1	1	1	3
hsa-miR-106a-5p	TRIM37	1	1	1	3
hsa-miR-301b-3p	TRIM37	1	1	1	3
hsa-miR-363-3p	TRIM36	1	1	1	3
hsa-miR-3923	TRIM33	1	1	1	3
hsa-miR-3619-5p	TRIM29	1	1	1	3
hsa-miR-130b-3p	TRIM2	1	1	1	3
hsa-miR-940	TRIB3	1	1	1	3
hsa-miR-96-5p	TRIB3	1	1	1	3
hsa-miR-200a-3p	TRAM1	1	1	1	3
hsa-miR-138-5p	TRAM1	1	1	1	3
hsa-miR-141-3p	TRAM1	1	1	1	3
hsa-miR-146a-5p	TRAF6	1	1	1	3
hsa-miR-3619-5p	TRAF1	1	1	1	3
hsa-miR-940	TRAF1	1	1	1	3
hsa-miR-548j-5p	TRA2B	1	1	1	3
hsa-miR-548y	TRA2B	1	1	1	3
hsa-miR-548d-3p	TRA2B	1	1	1	3
hsa-miR-211-5p	TPPP	1	1	1	3
hsa-miR-363-3p	TPPP	1	1	1	3
hsa-miR-7-5p	TPP1	1	1	1	3
hsa-miR-363-5p	TPM3	1	1	1	3
hsa-miR-216b-5p	TPM3	1	1	1	3
hsa-miR-1276	TPM3	1	1	1	3
hsa-miR-155-3p	TPM1	1	1	1	3
hsa-miR-7-5p	TPGS2	1	1	1	3
hsa-miR-429	TPD52L1	1	1	1	3
hsa-miR-200c-3p	TPD52L1	1	1	1	3
hsa-miR-636	TPD52	1	1	1	3
hsa-miR-9-3p	TPD52	1	1	1	3
hsa-miR-449a	TPCN2	1	1	1	3
hsa-miR-138-5p	TP53INP2	1	1	1	3
hsa-miR-877-3p	TP53INP2	1	1	1	3
hsa-miR-182-5p	TP53INP1	1	1	1	3
hsa-miR-106a-5p	TP53INP1	1	1	1	3
hsa-miR-20b-5p	TP53INP1	1	1	1	3
hsa-miR-3664-5p	TP53INP1	1	1	1	3
hsa-miR-141-5p	TOR3A	1	1	1	3
hsa-miR-1283	TOR1B	1	1	1	3
hsa-miR-182-3p	TOR1B	1	1	1	3
hsa-miR-940	TOR1AIP2	1	1	1	3
hsa-miR-522-3p	TOR1AIP1	1	1	1	3
hsa-miR-20b-5p	TOPORS	1	1	1	3
hsa-miR-130b-3p	TOM1L2	1	1	1	3
hsa-miR-6891-5p	TOB2	1	1	1	3
hsa-miR-363-3p	TOB1	1	1	1	3
hsa-miR-1224-5p	TNS1	1	1	1	3
hsa-miR-891b	TNRC6B	1	1	1	3
hsa-miR-130b-3p	TNRC6A	1	1	1	3
hsa-miR-3170	TNRC6A	1	1	1	3
hsa-miR-122-5p	TNRC6A	1	1	1	3
hsa-miR-301b-3p	TNRC6A	1	1	1	3
hsa-miR-7702	TNPO1	1	1	1	3
hsa-miR-512-3p	TNKS2	1	1	1	3
hsa-miR-141-3p	TNKS2	1	1	1	3
hsa-miR-20b-5p	TNKS2	1	1	1	3

hsa-miR-106a-5p	TNKS2	1	1	1	3
hsa-miR-200a-3p	TNKS2	1	1	1	3
hsa-miR-3127-3p	TNFSF8	1	1	1	3
hsa-miR-20b-5p	TNFRSF21	1	1	1	3
hsa-miR-106a-5p	TNFRSF21	1	1	1	3
hsa-miR-3614-3p	TNFAIP8	1	1	1	3
hsa-miR-940	TNFAIP2	1	1	1	3
hsa-miR-20b-5p	TNFAIP1	1	1	1	3
hsa-miR-215-5p	TMTC3	1	1	1	3
hsa-miR-211-5p	TMTC2	1	1	1	3
hsa-miR-526b-5p	TMPRSS15	1	1	1	3
hsa-miR-215-5p	TMPO	1	1	1	3
hsa-miR-363-3p	TMF1	1	1	1	3
hsa-miR-577	TMEM98	1	1	1	3
hsa-miR-7-5p	TMEM97	1	1	1	3
hsa-miR-629-3p	TMEM87B	1	1	1	3
hsa-miR-6854-5p	TMEM81	1	1	1	3
hsa-miR-7-5p	TMEM69	1	1	1	3
hsa-miR-106a-5p	TMEM64	1	1	1	3
hsa-miR-548d-3p	TMEM64	1	1	1	3
hsa-miR-20b-5p	TMEM64	1	1	1	3
hsa-miR-3161	TMEM47	1	1	1	3
hsa-miR-7-5p	TMEM43	1	1	1	3
hsa-miR-548y	TMEM41B	1	1	1	3
hsa-miR-548j-5p	TMEM41B	1	1	1	3
hsa-miR-1224-5p	TMEM30B	1	1	1	3
hsa-miR-636	TMEM25	1	1	1	3
hsa-miR-3619-5p	TMEM248	1	1	1	3
hsa-miR-548f-3p	TMEM245	1	1	1	3
hsa-miR-20b-5p	TMEM245	1	1	1	3
hsa-miR-18a-5p	TMEM2	1	1	1	3
hsa-miR-18b-5p	TMEM2	1	1	1	3
hsa-miR-3189-3p	TMEM178f	1	1	1	3
hsa-miR-96-5p	TMEM170f	1	1	1	3
hsa-miR-1248	TMEM170f	1	1	1	3
hsa-miR-6499-3p	TMEM167j	1	1	1	3
hsa-miR-20b-5p	TMEM167j	1	1	1	3
hsa-miR-449c-5p	TMEM167j	1	1	1	3
hsa-miR-548d-3p	TMEM158	1	1	1	3
hsa-miR-1248	TMEM138	1	1	1	3
hsa-miR-106a-5p	TMEM127	1	1	1	3
hsa-miR-20b-5p	TMEM127	1	1	1	3
hsa-miR-449b-3p	TMEM127	1	1	1	3
hsa-miR-20b-5p	TMEM123	1	1	1	3
hsa-miR-3619-5p	TMED9	1	1	1	3
hsa-miR-183-5p	TMED7	1	1	1	3
hsa-miR-449b-3p	TMED3	1	1	1	3
hsa-miR-219a-2-3p	TMED2	1	1	1	3
hsa-miR-215-5p	TMED10	1	1	1	3
hsa-miR-20b-5p	TMBIM6	1	1	1	3
hsa-miR-216b-5p	TM9SF3	1	1	1	3
hsa-miR-7-5p	TLR4	1	1	1	3
hsa-miR-93-3p	TLK2	1	1	1	3
hsa-miR-105-5p	TJP1	1	1	1	3
hsa-miR-141-3p	TIAM1	1	1	1	3
hsa-miR-425-5p	THRB	1	1	1	3
hsa-miR-15b-3p	THRB	1	1	1	3
hsa-miR-130b-3p	THOP1	1	1	1	3

hsa-miR-3065-5p	THBS1	1	1	1	3
hsa-miR-182-5p	THBS1	1	1	1	3
hsa-miR-200a-5p	THAP5	1	1	1	3
hsa-miR-527	TGOLN2	1	1	1	3
hsa-miR-6854-5p	TGOLN2	1	1	1	3
hsa-miR-518a-5p	TGOLN2	1	1	1	3
hsa-miR-548d-3p	TGIF2	1	1	1	3
hsa-miR-122-5p	TGFBRAP1	1	1	1	3
hsa-miR-211-5p	TGFBR2	1	1	1	3
hsa-miR-20b-5p	TGFBR2	1	1	1	3
hsa-miR-106a-5p	TGFBR2	1	1	1	3
hsa-miR-301b-3p	TGFBR2	1	1	1	3
hsa-miR-130b-3p	TGFBR2	1	1	1	3
hsa-miR-9-5p	TGFBR2	1	1	1	3
hsa-miR-1283	TGFBR1	1	1	1	3
hsa-miR-135b-5p	TGFBR1	1	1	1	3
hsa-miR-9-5p	TGFBI	1	1	1	3
hsa-miR-141-3p	TGFB2	1	1	1	3
hsa-miR-130b-5p	TFRC	1	1	1	3
hsa-miR-141-3p	TFDP2	1	1	1	3
hsa-miR-3619-5p	TFAP2C	1	1	1	3
hsa-miR-629-3p	TFAP2A	1	1	1	3
hsa-miR-203b-3p	TFAM	1	1	1	3
hsa-miR-3150b-3p	TEX261	1	1	1	3
hsa-miR-6891-5p	TEX261	1	1	1	3
hsa-miR-629-3p	TET3	1	1	1	3
hsa-miR-20b-5p	TET3	1	1	1	3
hsa-miR-9-5p	TESK2	1	1	1	3
hsa-miR-548f-3p	TERF2IP	1	1	1	3
hsa-miR-3664-5p	TERF1	1	1	1	3
hsa-miR-363-3p	TEF	1	1	1	3
hsa-miR-93-3p	TECPR2	1	1	1	3
hsa-miR-215-5p	TCF7	1	1	1	3
hsa-miR-130b-3p	TCF4	1	1	1	3
hsa-miR-211-5p	TCF12	1	1	1	3
hsa-miR-182-5p	TCEAL7	1	1	1	3
hsa-miR-31-5p	TBXA2R	1	1	1	3
hsa-miR-9-5p	TBPL1	1	1	1	3
hsa-miR-18b-5p	TBPL1	1	1	1	3
hsa-miR-3619-5p	TBPL1	1	1	1	3
hsa-miR-18a-5p	TBPL1	1	1	1	3
hsa-miR-767-5p	TBL1XR1	1	1	1	3
hsa-miR-548f-3p	TBL1XR1	1	1	1	3
hsa-miR-7705	TBL1XR1	1	1	1	3
hsa-miR-219a-2-3p	TBK1	1	1	1	3
hsa-miR-200c-3p	TBK1	1	1	1	3
hsa-miR-200b-3p	TBK1	1	1	1	3
hsa-miR-429	TBK1	1	1	1	3
hsa-miR-940	TBC1D9B	1	1	1	3
hsa-miR-363-3p	TBC1D8	1	1	1	3
hsa-miR-888-5p	TBC1D15	1	1	1	3
hsa-miR-93-3p	TARDBP	1	1	1	3
hsa-miR-18a-5p	TAOK1	1	1	1	3
hsa-miR-4665-5p	TAOK1	1	1	1	3
hsa-miR-18b-5p	TAOK1	1	1	1	3
hsa-miR-20b-5p	TANC1	1	1	1	3
hsa-miR-449b-3p	TAGLN2	1	1	1	3
hsa-miR-6844	TAF2	1	1	1	3

hsa-miR-20b-5p	TADA2B	1	1	1	3
hsa-miR-940	SYT15	1	1	1	3
hsa-miR-3065-5p	SYPL1	1	1	1	3
hsa-miR-522-3p	SYNM	1	1	1	3
hsa-miR-3662	SYNM	1	1	1	3
hsa-miR-6844	SYNJ2BP	1	1	1	3
hsa-miR-211-5p	SYNJ2BP	1	1	1	3
hsa-miR-425-5p	SYNCRIP	1	1	1	3
hsa-miR-200c-5p	SYNCRIP	1	1	1	3
hsa-miR-31-5p	SYDE2	1	1	1	3
hsa-miR-3065-5p	SYDE2	1	1	1	3
hsa-miR-130b-3p	SYBU	1	1	1	3
hsa-miR-9-5p	SYAP1	1	1	1	3
hsa-miR-1266-5p	SV2B	1	1	1	3
hsa-miR-200b-3p	SUZ12	1	1	1	3
hsa-miR-548d-3p	SUZ12	1	1	1	3
hsa-miR-200c-3p	SUZ12	1	1	1	3
hsa-miR-3934-3p	SUSD2	1	1	1	3
hsa-miR-93-3p	SUFU	1	1	1	3
hsa-miR-106a-5p	SUCO	1	1	1	3
hsa-miR-183-5p	SUCO	1	1	1	3
hsa-miR-20b-5p	SUCO	1	1	1	3
hsa-miR-215-5p	STX7	1	1	1	3
hsa-miR-301b-3p	STX6	1	1	1	3
hsa-miR-20b-5p	STX6	1	1	1	3
hsa-miR-130b-3p	STX6	1	1	1	3
hsa-miR-210-5p	STX17	1	1	1	3
hsa-miR-629-3p	STMN1	1	1	1	3
hsa-miR-940	STK40	1	1	1	3
hsa-miR-3934-3p	STK40	1	1	1	3
hsa-miR-31-5p	STK40	1	1	1	3
hsa-miR-4724-5p	STK4	1	1	1	3
hsa-miR-3934-3p	STK4	1	1	1	3
hsa-miR-18a-5p	STK4	1	1	1	3
hsa-miR-205-5p	STK38L	1	1	1	3
hsa-miR-9-5p	STK3	1	1	1	3
hsa-miR-96-5p	STK17B	1	1	1	3
hsa-miR-20b-5p	STK17B	1	1	1	3
hsa-miR-940	STEAP2	1	1	1	3
hsa-miR-629-3p	STC2	1	1	1	3
hsa-miR-891a-5p	STC2	1	1	1	3
hsa-miR-141-3p	STAT4	1	1	1	3
hsa-miR-20b-5p	STAT3	1	1	1	3
hsa-miR-106a-5p	STAT3	1	1	1	3
hsa-miR-3176	STARD7	1	1	1	3
hsa-miR-1276	STARD3NL	1	1	1	3
hsa-miR-548f-3p	STARD3NL	1	1	1	3
hsa-miR-940	STARD3	1	1	1	3
hsa-miR-301b-3p	STARD13	1	1	1	3
hsa-miR-183-3p	STARD13	1	1	1	3
hsa-miR-130b-3p	STARD13	1	1	1	3
hsa-miR-6499-3p	ST3GAL5	1	1	1	3
hsa-miR-526b-5p	ST13	1	1	1	3
hsa-miR-449a	SSX5	1	1	1	3
hsa-miR-20b-5p	SSX2IP	1	1	1	3
hsa-miR-211-5p	SSRP1	1	1	1	3
hsa-miR-3189-3p	SSRP1	1	1	1	3
hsa-miR-940	SSR1	1	1	1	3

hsa-miR-6891-5p	SSPN	1	1	1	3
hsa-miR-363-3p	SSFA2	1	1	1	3
hsa-miR-4745-3p	SRSF2	1	1	1	3
hsa-miR-183-5p	SRSF2	1	1	1	3
hsa-miR-1304-3p	SRSF2	1	1	1	3
hsa-miR-183-3p	SRSF1	1	1	1	3
hsa-miR-6715b-3p	SRP9	1	1	1	3
hsa-miR-3662	SRGAP2	1	1	1	3
hsa-miR-3187-3p	SREK1IP1	1	1	1	3
hsa-miR-3664-3p	SRCIN1	1	1	1	3
hsa-miR-877-3p	SRCIN1	1	1	1	3
hsa-miR-20b-5p	SQSTM1	1	1	1	3
hsa-miR-205-5p	SQLE	1	1	1	3
hsa-miR-7-5p	SPTY2D1	1	1	1	3
hsa-miR-7-5p	SPTSSB	1	1	1	3
hsa-miR-210-5p	SPTLC2	1	1	1	3
hsa-miR-18a-3p	SPTBN2	1	1	1	3
hsa-miR-363-3p	SPRYD4	1	1	1	3
hsa-miR-20b-5p	SPRED1	1	1	1	3
hsa-miR-106a-5p	SPRED1	1	1	1	3
hsa-miR-138-1-3p	SPRED1	1	1	1	3
hsa-miR-425-5p	SPPL2A	1	1	1	3
hsa-miR-20b-5p	SPOPL	1	1	1	3
hsa-miR-130b-3p	SPOPL	1	1	1	3
hsa-miR-211-5p	SPOP	1	1	1	3
hsa-miR-301b-3p	SPG20	1	1	1	3
hsa-miR-130b-3p	SPG20	1	1	1	3
hsa-miR-548f-3p	SPATS2L	1	1	1	3
hsa-miR-130b-3p	SPATA2	1	1	1	3
hsa-miR-4724-5p	SPATA2	1	1	1	3
hsa-miR-7-5p	SPATA2	1	1	1	3
hsa-miR-629-3p	SPATA2	1	1	1	3
hsa-miR-3065-5p	SPATA13	1	1	1	3
hsa-miR-9-5p	SPAG9	1	1	1	3
hsa-miR-3176	SP4	1	1	1	3
hsa-miR-211-5p	SP1	1	1	1	3
hsa-miR-31-5p	SP1	1	1	1	3
hsa-miR-20b-5p	SOX4	1	1	1	3
hsa-miR-138-5p	SOX4	1	1	1	3
hsa-miR-106a-5p	SOX4	1	1	1	3
hsa-miR-130b-3p	SOX4	1	1	1	3
hsa-miR-301b-3p	SOX4	1	1	1	3
hsa-miR-363-3p	SOX4	1	1	1	3
hsa-miR-363-3p	SOX11	1	1	1	3
hsa-miR-3065-5p	SOX1	1	1	1	3
hsa-miR-1283	SOD2	1	1	1	3
hsa-miR-431-5p	SOCS6	1	1	1	3
hsa-miR-216b-5p	SOCS6	1	1	1	3
hsa-miR-9-5p	SOCS5	1	1	1	3
hsa-miR-203b-3p	SOCS5	1	1	1	3
hsa-miR-3619-5p	SOCS5	1	1	1	3
hsa-miR-548d-3p	SOAT1	1	1	1	3
hsa-miR-96-5p	SNX7	1	1	1	3
hsa-miR-9-5p	SNX7	1	1	1	3
hsa-miR-518a-5p	SNX5	1	1	1	3
hsa-miR-141-5p	SNX5	1	1	1	3
hsa-miR-527	SNX5	1	1	1	3
hsa-miR-3662	SNX19	1	1	1	3

hsa-miR-96-5p	SNX16	1	1	1	3
hsa-miR-1226-3p	SNX13	1	1	1	3
hsa-miR-3616-3p	SNX12	1	1	1	3
hsa-miR-20b-5p	SNTB2	1	1	1	3
hsa-miR-3065-5p	SNRK	1	1	1	3
hsa-miR-7-5p	SNCA	1	1	1	3
hsa-miR-431-5p	SNAP29	1	1	1	3
hsa-miR-7-5p	SNAP29	1	1	1	3
hsa-miR-93-3p	SMURF2	1	1	1	3
hsa-miR-363-3p	SMU1	1	1	1	3
hsa-miR-130b-3p	SMOC1	1	1	1	3
hsa-miR-301b-3p	SMOC1	1	1	1	3
hsa-miR-20b-5p	SMOC1	1	1	1	3
hsa-miR-106a-5p	SMOC1	1	1	1	3
hsa-miR-141-5p	SMIM17	1	1	1	3
hsa-miR-7974	SMG1	1	1	1	3
hsa-miR-96-3p	SMC2	1	1	1	3
hsa-miR-940	SMARCD1	1	1	1	3
hsa-miR-7-5p	SMARCD1	1	1	1	3
hsa-miR-548f-3p	SMARCAD	1	1	1	3
hsa-miR-135b-5p	SMAD5	1	1	1	3
hsa-miR-548y	SMAD5	1	1	1	3
hsa-miR-548j-5p	SMAD5	1	1	1	3
hsa-miR-20b-5p	SMAD5	1	1	1	3
hsa-miR-449b-5p	SMAD4	1	1	1	3
hsa-miR-449a	SMAD4	1	1	1	3
hsa-miR-216b-5p	SMAD1	1	1	1	3
hsa-miR-363-3p	SLX4	1	1	1	3
hsa-miR-130b-3p	SLMAP	1	1	1	3
hsa-miR-20b-5p	SLK	1	1	1	3
hsa-miR-122-5p	SLC9A1	1	1	1	3
hsa-miR-489-3p	SLC7A11	1	1	1	3
hsa-miR-122-5p	SLC7A1	1	1	1	3
hsa-miR-3616-3p	SLC6A9	1	1	1	3
hsa-miR-7-5p	SLC6A9	1	1	1	3
hsa-miR-3662	SLC6A8	1	1	1	3
hsa-miR-122-5p	SLC52A2	1	1	1	3
hsa-miR-18a-3p	SLC46A1	1	1	1	3
hsa-miR-130b-3p	SLC44A1	1	1	1	3
hsa-miR-1283	SLC44A1	1	1	1	3
hsa-miR-211-5p	SLC43A1	1	1	1	3
hsa-miR-211-5p	SLC39A9	1	1	1	3
hsa-miR-1226-3p	SLC39A9	1	1	1	3
hsa-miR-522-3p	SLC39A9	1	1	1	3
hsa-miR-9-5p	SLC39A14	1	1	1	3
hsa-miR-96-5p	SLC39A1	1	1	1	3
hsa-miR-1269a	SLC38A2	1	1	1	3
hsa-miR-767-5p	SLC36A1	1	1	1	3
hsa-miR-4724-5p	SLC35G2	1	1	1	3
hsa-miR-512-3p	SLC35F6	1	1	1	3
hsa-miR-940	SLC35F6	1	1	1	3
hsa-miR-940	SLC35E2	1	1	1	3
hsa-miR-141-3p	SLC35D1	1	1	1	3
hsa-miR-200a-3p	SLC35D1	1	1	1	3
hsa-miR-130b-3p	SLC35D1	1	1	1	3
hsa-miR-3664-5p	SLC35B4	1	1	1	3
hsa-miR-9-5p	SLC35B3	1	1	1	3
hsa-miR-31-3p	SLC30A5	1	1	1	3

hsa-miR-449c-5p	SLC29A1	1	1	1	3
hsa-miR-3150b-3p	SLC26A9	1	1	1	3
hsa-miR-130b-5p	SLC26A7	1	1	1	3
hsa-miR-940	SLC25A45	1	1	1	3
hsa-miR-363-3p	SLC25A36	1	1	1	3
hsa-miR-363-3p	SLC25A32	1	1	1	3
hsa-miR-96-5p	SLC25A25	1	1	1	3
hsa-miR-7-5p	SLC25A15	1	1	1	3
hsa-miR-211-5p	SLC22A6	1	1	1	3
hsa-miR-20b-5p	SLC22A23	1	1	1	3
hsa-miR-106a-5p	SLC22A23	1	1	1	3
hsa-miR-96-5p	SLC1A1	1	1	1	3
hsa-miR-940	SLC17A5	1	1	1	3
hsa-miR-20b-5p	SLC16A9	1	1	1	3
hsa-miR-5684	SLC16A9	1	1	1	3
hsa-miR-891b	SLC16A6	1	1	1	3
hsa-miR-6815-3p	SLC16A1	1	1	1	3
hsa-miR-425-5p	SLC16A1	1	1	1	3
hsa-miR-301b-3p	SLC12A7	1	1	1	3
hsa-miR-130b-3p	SLC12A7	1	1	1	3
hsa-miR-363-3p	SLC12A5	1	1	1	3
hsa-miR-577	SLC10A7	1	1	1	3
hsa-miR-20b-5p	SLAIN2	1	1	1	3
hsa-miR-130b-3p	SLAIN1	1	1	1	3
hsa-miR-1301-3p	SKIL	1	1	1	3
hsa-miR-548f-3p	SKIL	1	1	1	3
hsa-miR-548j-5p	SIX4	1	1	1	3
hsa-miR-548y	SIX4	1	1	1	3
hsa-miR-130b-3p	SIX4	1	1	1	3
hsa-miR-138-5p	SIRT1	1	1	1	3
hsa-miR-9-5p	SIRT1	1	1	1	3
hsa-miR-4763-5p	SIN3B	1	1	1	3
hsa-miR-96-5p	SIN3B	1	1	1	3
hsa-miR-210-3p	SIN3A	1	1	1	3
hsa-miR-1229-3p	SIK2	1	1	1	3
hsa-miR-548y	SIK1	1	1	1	3
hsa-miR-20b-5p	SIK1	1	1	1	3
hsa-miR-548j-5p	SIK1	1	1	1	3
hsa-miR-130b-3p	SIK1	1	1	1	3
hsa-miR-106a-5p	SIK1	1	1	1	3
hsa-miR-301b-3p	SIK1	1	1	1	3
hsa-miR-20b-5p	SHOC2	1	1	1	3
hsa-miR-219a-2-3p	SHOC2	1	1	1	3
hsa-miR-106a-5p	SHOC2	1	1	1	3
hsa-miR-203b-3p	SHOC2	1	1	1	3
hsa-miR-3662	SHISA9	1	1	1	3
hsa-miR-205-5p	SHISA6	1	1	1	3
hsa-miR-200c-3p	SHCBP1	1	1	1	3
hsa-miR-429	SHCBP1	1	1	1	3
hsa-miR-3662	SH3TC2	1	1	1	3
hsa-miR-3189-3p	SH3PXD2A	1	1	1	3
hsa-miR-211-5p	SH3PXD2A	1	1	1	3
hsa-miR-767-5p	SH3GLB1	1	1	1	3
hsa-miR-183-5p	SH3D19	1	1	1	3
hsa-miR-210-3p	SH3BGRL	1	1	1	3
hsa-miR-548y	SH3BGRL	1	1	1	3
hsa-miR-106a-5p	SGTB	1	1	1	3
hsa-miR-3187-3p	SGTB	1	1	1	3

hsa-miR-629-3p	SGTB	1	1	1	3
hsa-miR-20b-5p	SGTB	1	1	1	3
hsa-miR-211-5p	SGPL1	1	1	1	3
hsa-miR-1226-3p	SGPL1	1	1	1	3
hsa-miR-3662	SGK1	1	1	1	3
hsa-miR-767-5p	SFT2D3	1	1	1	3
hsa-miR-141-3p	SFPQ	1	1	1	3
hsa-miR-449a	SF3B3	1	1	1	3
hsa-miR-577	SF1	1	1	1	3
hsa-miR-3934-5p	SETX	1	1	1	3
hsa-miR-1229-3p	SETD7	1	1	1	3
hsa-miR-4665-5p	SETD1B	1	1	1	3
hsa-miR-6891-5p	SET	1	1	1	3
hsa-miR-3662	SET	1	1	1	3
hsa-miR-130b-3p	SESTD1	1	1	1	3
hsa-miR-20b-5p	SESN3	1	1	1	3
hsa-miR-205-3p	SESN3	1	1	1	3
hsa-miR-106a-5p	SESN3	1	1	1	3
hsa-miR-363-3p	SESN3	1	1	1	3
hsa-miR-182-5p	SESN2	1	1	1	3
hsa-miR-210-3p	SERTM1	1	1	1	3
hsa-miR-577	SERTAD3	1	1	1	3
hsa-miR-363-3p	SERTAD3	1	1	1	3
hsa-miR-7-5p	SERP1	1	1	1	3
hsa-miR-9-5p	SERINC5	1	1	1	3
hsa-miR-211-5p	SERINC3	1	1	1	3
hsa-miR-130b-3p	SERINC3	1	1	1	3
hsa-miR-301b-3p	SERINC3	1	1	1	3
hsa-miR-548d-3p	SERBP1	1	1	1	3
hsa-miR-3176	SERAC1	1	1	1	3
hsa-miR-20b-5p	SEMA7A	1	1	1	3
hsa-miR-106a-5p	SEMA7A	1	1	1	3
hsa-miR-18a-3p	SEMA4G	1	1	1	3
hsa-miR-215-5p	SEMA4D	1	1	1	3
hsa-miR-138-5p	SEMA4C	1	1	1	3
hsa-miR-20b-5p	SEMA4B	1	1	1	3
hsa-miR-31-5p	SELE	1	1	1	3
hsa-miR-130b-3p	SEL1L3	1	1	1	3
hsa-miR-301b-3p	SECISBP2L	1	1	1	3
hsa-miR-130b-3p	SECISBP2L	1	1	1	3
hsa-miR-200b-3p	SEC24A	1	1	1	3
hsa-miR-429	SEC24A	1	1	1	3
hsa-miR-9-3p	SEC24A	1	1	1	3
hsa-miR-200c-3p	SEC24A	1	1	1	3
hsa-miR-9-5p	SEC23IP	1	1	1	3
hsa-miR-200c-3p	SEC23A	1	1	1	3
hsa-miR-200b-3p	SEC23A	1	1	1	3
hsa-miR-429	SEC23A	1	1	1	3
hsa-miR-888-5p	SEC22C	1	1	1	3
hsa-miR-4664-5p	SEC22C	1	1	1	3
hsa-miR-767-3p	SEC14L4	1	1	1	3
hsa-miR-6891-5p	SDK1	1	1	1	3
hsa-miR-556-5p	SDHD	1	1	1	3
hsa-miR-7-5p	SDHC	1	1	1	3
hsa-miR-130b-5p	SDHAF2	1	1	1	3
hsa-miR-7-5p	SDE2	1	1	1	3
hsa-miR-7974	SDC4	1	1	1	3
hsa-miR-548d-3p	SDC4	1	1	1	3

hsa-miR-548f-3p	SCML2	1	1	1	3
hsa-miR-877-3p	SCML2	1	1	1	3
hsa-miR-200a-3p	SCD5	1	1	1	3
hsa-miR-141-3p	SCD5	1	1	1	3
hsa-miR-6891-5p	SCD	1	1	1	3
hsa-miR-1269a	SCD	1	1	1	3
hsa-miR-96-5p	SCARB1	1	1	1	3
hsa-miR-20b-5p	SCAMP5	1	1	1	3
hsa-miR-3619-5p	SCAMP4	1	1	1	3
hsa-miR-940	SCAMP2	1	1	1	3
hsa-miR-1301-3p	SCAMP2	1	1	1	3
hsa-miR-6854-5p	SCAMP2	1	1	1	3
hsa-miR-106a-5p	SCAMP2	1	1	1	3
hsa-miR-20b-5p	SCAMP2	1	1	1	3
hsa-miR-526b-5p	SCAMP1	1	1	1	3
hsa-miR-449a	SATB2	1	1	1	3
hsa-miR-449b-5p	SATB2	1	1	1	3
hsa-miR-556-5p	SAR1B	1	1	1	3
hsa-miR-449b-5p	SAR1A	1	1	1	3
hsa-miR-449a	SAR1A	1	1	1	3
hsa-miR-18b-5p	SAR1A	1	1	1	3
hsa-miR-18a-5p	SAR1A	1	1	1	3
hsa-miR-888-5p	SAMD8	1	1	1	3
hsa-miR-130b-3p	SAMD8	1	1	1	3
hsa-miR-548j-5p	SAMD8	1	1	1	3
hsa-miR-548y	SAMD8	1	1	1	3
hsa-miR-301b-3p	SAMD8	1	1	1	3
hsa-miR-211-5p	SAMD5	1	1	1	3
hsa-miR-940	SAMD4B	1	1	1	3
hsa-miR-20b-5p	SAMD12	1	1	1	3
hsa-miR-106a-5p	SAMD12	1	1	1	3
hsa-miR-20b-5p	SALL3	1	1	1	3
hsa-miR-301b-3p	SALL3	1	1	1	3
hsa-miR-130b-3p	SALL3	1	1	1	3
hsa-miR-106a-5p	SALL3	1	1	1	3
hsa-miR-20b-5p	SACS	1	1	1	3
hsa-miR-363-3p	S1PR1	1	1	1	3
hsa-miR-138-5p	S100A1	1	1	1	3
hsa-miR-7-5p	RYK	1	1	1	3
hsa-miR-130b-3p	RUNX3	1	1	1	3
hsa-miR-106a-5p	RUNX3	1	1	1	3
hsa-miR-20b-5p	RUNX3	1	1	1	3
hsa-miR-20b-5p	RUNDC1	1	1	1	3
hsa-miR-767-5p	RUFY2	1	1	1	3
hsa-miR-106a-5p	RUFY2	1	1	1	3
hsa-miR-20b-5p	RUFY2	1	1	1	3
hsa-miR-205-5p	RTN3	1	1	1	3
hsa-miR-6793-5p	RSRC2	1	1	1	3
hsa-miR-548d-3p	RSRC1	1	1	1	3
hsa-miR-141-5p	RSPH4A	1	1	1	3
hsa-miR-3170	RSL1D1	1	1	1	3
hsa-miR-363-3p	RSBN1	1	1	1	3
hsa-miR-548j-5p	RSBN1	1	1	1	3
hsa-miR-548y	RSBN1	1	1	1	3
hsa-miR-363-3p	RRN3	1	1	1	3
hsa-miR-20b-5p	RRM2	1	1	1	3
hsa-miR-106a-5p	RRM2	1	1	1	3
hsa-miR-7-5p	RRAS2	1	1	1	3

hsa-miR-3161	RRAS2	1	1	1	3
hsa-miR-130b-3p	RRAGD	1	1	1	3
hsa-miR-106a-5p	RRAGD	1	1	1	3
hsa-miR-20b-5p	RRAGD	1	1	1	3
hsa-miR-301b-3p	RRAGD	1	1	1	3
hsa-miR-3161	RPS6KB1	1	1	1	3
hsa-miR-130b-3p	RPS6KA5	1	1	1	3
hsa-miR-106a-5p	RPS6KA5	1	1	1	3
hsa-miR-20b-5p	RPS6KA5	1	1	1	3
hsa-miR-301b-3p	RPS6KA5	1	1	1	3
hsa-miR-526b-5p	RPS6KA3	1	1	1	3
hsa-miR-636	RPS6KA3	1	1	1	3
hsa-miR-205-3p	RPP14	1	1	1	3
hsa-miR-512-3p	RPL17-C18	1	1	1	3
hsa-miR-7-5p	RPL15	1	1	1	3
hsa-miR-3150b-3p	RPH3A	1	1	1	3
hsa-miR-215-5p	RPAP2	1	1	1	3
hsa-miR-20b-5p	RPA2	1	1	1	3
hsa-miR-130b-3p	RPA2	1	1	1	3
hsa-miR-18a-5p	RORA	1	1	1	3
hsa-miR-106a-5p	RORA	1	1	1	3
hsa-miR-3662	RORA	1	1	1	3
hsa-miR-20b-5p	RORA	1	1	1	3
hsa-miR-18b-5p	RORA	1	1	1	3
hsa-miR-200c-3p	ROCK2	1	1	1	3
hsa-miR-200b-3p	ROCK2	1	1	1	3
hsa-miR-138-5p	ROCK2	1	1	1	3
hsa-miR-888-5p	RNPS1	1	1	1	3
hsa-miR-1283	RNPS1	1	1	1	3
hsa-miR-940	RNF41	1	1	1	3
hsa-miR-93-3p	RNF4	1	1	1	3
hsa-miR-363-3p	RNF4	1	1	1	3
hsa-miR-3662	RNF219	1	1	1	3
hsa-miR-3934-3p	RNF216	1	1	1	3
hsa-miR-200b-3p	RNF2	1	1	1	3
hsa-miR-200c-3p	RNF2	1	1	1	3
hsa-miR-548d-3p	RNF2	1	1	1	3
hsa-miR-425-5p	RNF168	1	1	1	3
hsa-miR-3150b-3p	RNF157	1	1	1	3
hsa-miR-130b-3p	RNF145	1	1	1	3
hsa-miR-577	RNF138	1	1	1	3
hsa-miR-767-5p	RNF138	1	1	1	3
hsa-miR-7-5p	RNF114	1	1	1	3
hsa-miR-3662	RNF111	1	1	1	3
hsa-miR-200b-3p	RND3	1	1	1	3
hsa-miR-200c-3p	RND3	1	1	1	3
hsa-miR-548d-3p	RMND5A	1	1	1	3
hsa-miR-138-5p	RMND5A	1	1	1	3
hsa-miR-6715a-3p	RLIM	1	1	1	3
hsa-miR-3662	RLIM	1	1	1	3
hsa-miR-301b-3p	RLIM	1	1	1	3
hsa-miR-106a-5p	RLIM	1	1	1	3
hsa-miR-20b-5p	RLIM	1	1	1	3
hsa-miR-130b-3p	RLIM	1	1	1	3
hsa-miR-215-5p	RIC8B	1	1	1	3
hsa-miR-138-5p	RHOC	1	1	1	3
hsa-miR-512-3p	RHOC	1	1	1	3
hsa-miR-20b-5p	RHOC	1	1	1	3

hsa-miR-106a-5p	RHOC	1	1	1	3
hsa-miR-135a-3p	RHOBTB3	1	1	1	3
hsa-miR-31-5p	RHOBTB1	1	1	1	3
hsa-miR-527	RHOB	1	1	1	3
hsa-miR-518a-5p	RHOB	1	1	1	3
hsa-miR-4446-3p	RHOA	1	1	1	3
hsa-miR-6877-5p	RHOA	1	1	1	3
hsa-miR-3187-3p	RHOA	1	1	1	3
hsa-miR-577	RHOA	1	1	1	3
hsa-miR-200c-3p	RHOA	1	1	1	3
hsa-miR-877-3p	RGS6	1	1	1	3
hsa-miR-130b-5p	RGS6	1	1	1	3
hsa-miR-106a-5p	RGMB	1	1	1	3
hsa-miR-20b-5p	RGMB	1	1	1	3
hsa-miR-130b-3p	RFX7	1	1	1	3
hsa-miR-301b-3p	RFX7	1	1	1	3
hsa-miR-205-5p	RFX7	1	1	1	3
hsa-miR-363-3p	REV3L	1	1	1	3
hsa-miR-96-5p	REV1	1	1	1	3
hsa-miR-106a-5p	REST	1	1	1	3
hsa-miR-20b-5p	REST	1	1	1	3
hsa-miR-105-5p	REST	1	1	1	3
hsa-miR-4758-3p	RELT	1	1	1	3
hsa-miR-138-5p	RELN	1	1	1	3
hsa-miR-7-5p	RELA	1	1	1	3
hsa-miR-3664-5p	REEP5	1	1	1	3
hsa-miR-20b-5p	REEP3	1	1	1	3
hsa-miR-106a-5p	REEP3	1	1	1	3
hsa-miR-182-5p	RECK	1	1	1	3
hsa-miR-940	RECK	1	1	1	3
hsa-miR-183-5p	RCN2	1	1	1	3
hsa-miR-877-5p	RC3H1	1	1	1	3
hsa-miR-548d-3p	RBPJ	1	1	1	3
hsa-miR-877-3p	RBMS3	1	1	1	3
hsa-miR-7-5p	RBMS3	1	1	1	3
hsa-miR-6499-3p	RBMS2	1	1	1	3
hsa-miR-122-5p	RBM43	1	1	1	3
hsa-miR-138-1-3p	RBM41	1	1	1	3
hsa-miR-96-3p	RBM27	1	1	1	3
hsa-miR-301b-3p	RBM20	1	1	1	3
hsa-miR-130b-3p	RBM20	1	1	1	3
hsa-miR-20b-5p	RBM20	1	1	1	3
hsa-miR-1266-5p	RBM12B	1	1	1	3
hsa-miR-106a-5p	RBL2	1	1	1	3
hsa-miR-526b-5p	RBL1	1	1	1	3
hsa-miR-122-5p	RBL1	1	1	1	3
hsa-miR-940	RBL1	1	1	1	3
hsa-miR-3662	RBL1	1	1	1	3
hsa-miR-3923	RBFOX2	1	1	1	3
hsa-miR-20b-5p	RBBP7	1	1	1	3
hsa-miR-215-5p	RB1	1	1	1	3
hsa-miR-106a-5p	RB1	1	1	1	3
hsa-miR-20b-5p	RB1	1	1	1	3
hsa-miR-3614-5p	RB1	1	1	1	3
hsa-miR-200c-3p	RASSF8	1	1	1	3
hsa-miR-429	RASSF8	1	1	1	3
hsa-miR-200b-3p	RASSF8	1	1	1	3
hsa-miR-363-5p	RASL10B	1	1	1	3

hsa-miR-31-5p	RASA1	1	1	1	3
hsa-miR-182-5p	RARG	1	1	1	3
hsa-miR-138-5p	RARA	1	1	1	3
hsa-miR-940	RARA	1	1	1	3
hsa-miR-548f-3p	RAPH1	1	1	1	3
hsa-miR-548d-3p	RAPH1	1	1	1	3
hsa-miR-940	RAPGEF6	1	1	1	3
hsa-miR-629-3p	RAPGEF6	1	1	1	3
hsa-miR-20b-5p	RAPGEF4	1	1	1	3
hsa-miR-3187-3p	RAP2C	1	1	1	3
hsa-miR-130b-3p	RAP2C	1	1	1	3
hsa-miR-106a-5p	RAP2C	1	1	1	3
hsa-miR-20b-5p	RAP2C	1	1	1	3
hsa-miR-6715a-3p	RAP1A	1	1	1	3
hsa-miR-636	RAP1A	1	1	1	3
hsa-miR-3662	RANBP1	1	1	1	3
hsa-miR-130b-5p	RALGPS2	1	1	1	3
hsa-miR-183-5p	RALGDS	1	1	1	3
hsa-miR-1283	RAG1	1	1	1	3
hsa-miR-7-5p	RAF1	1	1	1	3
hsa-miR-6781-3p	RAD54L2	1	1	1	3
hsa-miR-4724-5p	RAD51AP1	1	1	1	3
hsa-miR-96-3p	RAD23B	1	1	1	3
hsa-miR-106a-5p	RAD23B	1	1	1	3
hsa-miR-301b-3p	RACGAP1	1	1	1	3
hsa-miR-130b-3p	RACGAP1	1	1	1	3
hsa-miR-20b-5p	RABEP1	1	1	1	3
hsa-miR-200a-3p	RAB8B	1	1	1	3
hsa-miR-518a-5p	RAB8B	1	1	1	3
hsa-miR-548y	RAB8B	1	1	1	3
hsa-miR-527	RAB8B	1	1	1	3
hsa-miR-141-3p	RAB8B	1	1	1	3
hsa-miR-548j-5p	RAB8B	1	1	1	3
hsa-miR-18b-5p	RAB5C	1	1	1	3
hsa-miR-183-3p	RAB5C	1	1	1	3
hsa-miR-18a-5p	RAB5C	1	1	1	3
hsa-miR-483-3p	RAB5B	1	1	1	3
hsa-miR-20b-5p	RAB5B	1	1	1	3
hsa-miR-106a-5p	RAB5B	1	1	1	3
hsa-miR-130b-3p	RAB5A	1	1	1	3
hsa-miR-4763-5p	RAB37	1	1	1	3
hsa-miR-130b-3p	RAB34	1	1	1	3
hsa-miR-9-5p	RAB34	1	1	1	3
hsa-miR-301b-3p	RAB34	1	1	1	3
hsa-miR-548d-3p	RAB33B	1	1	1	3
hsa-miR-425-5p	RAB31	1	1	1	3
hsa-miR-3176	RAB30	1	1	1	3
hsa-miR-518a-5p	RAB23	1	1	1	3
hsa-miR-527	RAB23	1	1	1	3
hsa-miR-211-5p	RAB22A	1	1	1	3
hsa-miR-106a-5p	RAB22A	1	1	1	3
hsa-miR-20b-5p	RAB22A	1	1	1	3
hsa-miR-200b-3p	RAB21	1	1	1	3
hsa-miR-3065-5p	RAB1A	1	1	1	3
hsa-miR-449b-3p	RAB1A	1	1	1	3
hsa-miR-4665-5p	RAB15	1	1	1	3
hsa-miR-301b-3p	RAB14	1	1	1	3
hsa-miR-527	RAB14	1	1	1	3

hsa-miR-518a-5p	RAB14	1	1	1	3
hsa-miR-130b-3p	RAB14	1	1	1	3
hsa-miR-7-5p	RAB11FIP5	1	1	1	3
hsa-miR-4665-5p	RAB11FIP4	1	1	1	3
hsa-miR-20b-5p	RAB11FIP1	1	1	1	3
hsa-miR-205-5p	RAB11FIP1	1	1	1	3
hsa-miR-106a-5p	RAB11FIP1	1	1	1	3
hsa-miR-20b-5p	RAB10	1	1	1	3
hsa-miR-3923	RAB10	1	1	1	3
hsa-miR-106a-5p	RAB10	1	1	1	3
hsa-miR-211-5p	RAB10	1	1	1	3
hsa-miR-522-3p	QSER1	1	1	1	3
hsa-miR-135a-3p	QSER1	1	1	1	3
hsa-miR-20b-5p	PXK	1	1	1	3
hsa-miR-130b-3p	PXK	1	1	1	3
hsa-miR-301b-3p	PXK	1	1	1	3
hsa-miR-106a-5p	PXK	1	1	1	3
hsa-miR-9-5p	PXDN	1	1	1	3
hsa-miR-3200-3p	PURA	1	1	1	3
hsa-miR-106a-3p	PURA	1	1	1	3
hsa-miR-3616-3p	PUM2	1	1	1	3
hsa-miR-200c-3p	PTPRZ1	1	1	1	3
hsa-miR-211-5p	PTPRT	1	1	1	3
hsa-miR-205-5p	PTPRM	1	1	1	3
hsa-miR-1283	PTPRK	1	1	1	3
hsa-miR-205-5p	PTPRJ	1	1	1	3
hsa-miR-592	PTPRJ	1	1	1	3
hsa-miR-301b-3p	PTPRG	1	1	1	3
hsa-miR-130b-3p	PTPRG	1	1	1	3
hsa-miR-200a-3p	PTPRD	1	1	1	3
hsa-miR-141-3p	PTPRD	1	1	1	3
hsa-miR-106a-5p	PTPN4	1	1	1	3
hsa-miR-20b-5p	PTPN4	1	1	1	3
hsa-miR-301b-3p	PTPN4	1	1	1	3
hsa-miR-512-3p	PTPN4	1	1	1	3
hsa-miR-130b-3p	PTPN4	1	1	1	3
hsa-miR-200c-3p	PTPN13	1	1	1	3
hsa-miR-20b-5p	PTPDC1	1	1	1	3
hsa-miR-106a-5p	PTPDC1	1	1	1	3
hsa-miR-3065-5p	PTP4A2	1	1	1	3
hsa-miR-548j-5p	PTP4A1	1	1	1	3
hsa-miR-767-5p	PTP4A1	1	1	1	3
hsa-miR-130b-3p	PTP4A1	1	1	1	3
hsa-miR-548y	PTP4A1	1	1	1	3
hsa-miR-940	PTK2B	1	1	1	3
hsa-miR-7-5p	PTK2	1	1	1	3
hsa-miR-138-5p	PTK2	1	1	1	3
hsa-miR-3170	PTGR2	1	1	1	3
hsa-miR-877-3p	PTGFRN	1	1	1	3
hsa-miR-106a-5p	PTGFRN	1	1	1	3
hsa-miR-20b-5p	PTGFRN	1	1	1	3
hsa-miR-130b-3p	PTEN	1	1	1	3
hsa-miR-6715b-3p	PTBP3	1	1	1	3
hsa-miR-363-3p	PTAR1	1	1	1	3
hsa-miR-7-5p	PSME3	1	1	1	3
hsa-miR-940	PSMD11	1	1	1	3
hsa-miR-6720-3p	PSMB2	1	1	1	3
hsa-miR-200c-3p	PSD3	1	1	1	3

hsa-miR-1266-5p	PSD3	1	1	1	3
hsa-miR-429	PSD3	1	1	1	3
hsa-miR-130b-3p	PSAP	1	1	1	3
hsa-miR-301b-3p	PRUNE2	1	1	1	3
hsa-miR-527	PRUNE2	1	1	1	3
hsa-miR-130b-3p	PRUNE2	1	1	1	3
hsa-miR-518a-5p	PRUNE2	1	1	1	3
hsa-miR-940	PRSS45	1	1	1	3
hsa-miR-9-5p	PRRX1	1	1	1	3
hsa-miR-429	PRRG4	1	1	1	3
hsa-miR-200b-3p	PRRG4	1	1	1	3
hsa-miR-200c-3p	PRRG4	1	1	1	3
hsa-miR-3150b-3p	PRRC2B	1	1	1	3
hsa-miR-548j-5p	PRRC1	1	1	1	3
hsa-miR-548y	PRRC1	1	1	1	3
hsa-miR-183-5p	PRRC1	1	1	1	3
hsa-miR-20b-5p	PRR14L	1	1	1	3
hsa-miR-6781-3p	PRR11	1	1	1	3
hsa-miR-93-3p	PRPF8	1	1	1	3
hsa-miR-940	PRPF4B	1	1	1	3
hsa-miR-105-5p	PRPF40A	1	1	1	3
hsa-miR-96-5p	PROK2	1	1	1	3
hsa-miR-211-5p	PRLR	1	1	1	3
hsa-miR-105-5p	PRKX	1	1	1	3
hsa-miR-122-5p	PRKRA	1	1	1	3
hsa-miR-215-5p	PRKD3	1	1	1	3
hsa-miR-31-5p	PRKCE	1	1	1	3
hsa-miR-205-5p	PRKCE	1	1	1	3
hsa-miR-96-5p	PRKCE	1	1	1	3
hsa-miR-96-5p	PRKAR1A	1	1	1	3
hsa-miR-636	PRKACB	1	1	1	3
hsa-miR-182-5p	PRKAA2	1	1	1	3
hsa-miR-301b-3p	PRKAA1	1	1	1	3
hsa-miR-130b-3p	PRKAA1	1	1	1	3
hsa-miR-141-3p	PRELID2	1	1	1	3
hsa-miR-200a-3p	PRELID2	1	1	1	3
hsa-miR-4446-3p	PRELID1	1	1	1	3
hsa-miR-7-5p	PRDM6	1	1	1	3
hsa-miR-211-5p	PRDM2	1	1	1	3
hsa-miR-6854-5p	PRDM2	1	1	1	3
hsa-miR-96-5p	PRDM16	1	1	1	3
hsa-miR-9-5p	PRDM1	1	1	1	3
hsa-miR-301b-3p	PPP6R3	1	1	1	3
hsa-miR-130b-3p	PPP6R3	1	1	1	3
hsa-miR-20b-5p	PPP6R3	1	1	1	3
hsa-miR-106a-5p	PPP6R3	1	1	1	3
hsa-miR-130b-3p	PPP6R2	1	1	1	3
hsa-miR-301b-3p	PPP6R1	1	1	1	3
hsa-miR-130b-3p	PPP6R1	1	1	1	3
hsa-miR-20b-5p	PPP6C	1	1	1	3
hsa-miR-3127-3p	PPP3R1	1	1	1	3
hsa-miR-548d-3p	PPP3R1	1	1	1	3
hsa-miR-20b-5p	PPP3R1	1	1	1	3
hsa-miR-211-5p	PPP3R1	1	1	1	3
hsa-miR-3664-3p	PPP2R5E	1	1	1	3
hsa-miR-31-5p	PPP2R2A	1	1	1	3
hsa-miR-183-5p	PPP2CB	1	1	1	3
hsa-miR-216b-5p	PPP2CB	1	1	1	3

hsa-miR-96-5p	PPP1R9B	1	1	1	3
hsa-miR-20b-5p	PPP1R3B	1	1	1	3
hsa-miR-3150b-3p	PPP1R3B	1	1	1	3
hsa-miR-363-3p	PPP1R37	1	1	1	3
hsa-miR-7974	PPP1R26	1	1	1	3
hsa-miR-767-3p	PPP1R1C	1	1	1	3
hsa-miR-6891-5p	PPP1R1C	1	1	1	3
hsa-miR-20b-5p	PPP1R15B	1	1	1	3
hsa-miR-200a-3p	PPP1R15B	1	1	1	3
hsa-miR-141-3p	PPP1R15B	1	1	1	3
hsa-miR-940	PPP1R15B	1	1	1	3
hsa-miR-130b-3p	PPP1R15B	1	1	1	3
hsa-miR-301b-3p	PPP1R15B	1	1	1	3
hsa-miR-106a-5p	PPP1R15B	1	1	1	3
hsa-miR-3616-3p	PPP1R12A	1	1	1	3
hsa-miR-3662	PPP1R12A	1	1	1	3
hsa-miR-1304-3p	PPM1K	1	1	1	3
hsa-miR-7-5p	PPIF	1	1	1	3
hsa-miR-130b-3p	PPARG	1	1	1	3
hsa-miR-211-5p	POU3F2	1	1	1	3
hsa-miR-210-3p	POU2AF1	1	1	1	3
hsa-miR-20b-5p	POLR3G	1	1	1	3
hsa-miR-20b-5p	POLQ	1	1	1	3
hsa-miR-7-5p	POLE4	1	1	1	3
hsa-miR-449b-5p	PODXL	1	1	1	3
hsa-miR-449a	PODXL	1	1	1	3
hsa-miR-3619-5p	PNPLA6	1	1	1	3
hsa-miR-3662	PNN	1	1	1	3
hsa-miR-425-5p	PNMAL1	1	1	1	3
hsa-miR-3662	PNISR	1	1	1	3
hsa-miR-3651	PMAIP1	1	1	1	3
hsa-miR-200b-3p	PMAIP1	1	1	1	3
hsa-miR-200c-3p	PMAIP1	1	1	1	3
hsa-miR-429	PMAIP1	1	1	1	3
hsa-miR-888-5p	PMAIP1	1	1	1	3
hsa-miR-105-5p	PLXNC1	1	1	1	3
hsa-miR-93-3p	PLXNA4	1	1	1	3
hsa-miR-20b-5p	PLXNA1	1	1	1	3
hsa-miR-599	PLXDC2	1	1	1	3
hsa-miR-20b-5p	PLS1	1	1	1	3
hsa-miR-106a-5p	PLS1	1	1	1	3
hsa-miR-130b-5p	PLP1	1	1	1	3
hsa-miR-3187-3p	PLK2	1	1	1	3
hsa-miR-6777-5p	PLIN1	1	1	1	3
hsa-miR-20b-5p	PLEKHO2	1	1	1	3
hsa-miR-31-3p	PLEKHB2	1	1	1	3
hsa-miR-182-5p	PLEKHA8	1	1	1	3
hsa-miR-363-3p	PLEKHA1	1	1	1	3
hsa-miR-7-5p	PLEC	1	1	1	3
hsa-miR-940	PLCXD1	1	1	1	3
hsa-miR-6844	PLCL1	1	1	1	3
hsa-miR-548y	PLAGL2	1	1	1	3
hsa-miR-892a	PLAGL2	1	1	1	3
hsa-miR-548j-5p	PLAGL2	1	1	1	3
hsa-miR-1269a	PLAGL2	1	1	1	3
hsa-miR-767-5p	PLAG1	1	1	1	3
hsa-miR-6891-5p	PLA2G2F	1	1	1	3
hsa-miR-215-5p	PKP4	1	1	1	3

hsa-miR-4665-5p	PKNOX2	1	1	1	3
hsa-miR-940	PKNOX1	1	1	1	3
hsa-miR-20b-5p	PKNOX1	1	1	1	3
hsa-miR-106a-5p	PKNOX1	1	1	1	3
hsa-miR-3616-5p	PKN2	1	1	1	3
hsa-miR-4665-5p	PKM	1	1	1	3
hsa-miR-122-5p	PKM	1	1	1	3
hsa-miR-200c-3p	PKD1	1	1	1	3
hsa-miR-431-5p	PITPNA	1	1	1	3
hsa-miR-106a-5p	PITPNA	1	1	1	3
hsa-miR-20b-5p	PITPNA	1	1	1	3
hsa-miR-20b-5p	PIP4K2C	1	1	1	3
hsa-miR-877-3p	PIP4K2B	1	1	1	3
hsa-miR-122-5p	PIP4K2A	1	1	1	3
hsa-miR-20b-5p	PIP4K2A	1	1	1	3
hsa-miR-200c-3p	PIN1	1	1	1	3
hsa-miR-200b-3p	PIN1	1	1	1	3
hsa-miR-940	PIM2	1	1	1	3
hsa-miR-3619-5p	PIM1	1	1	1	3
hsa-miR-7-5p	PIK3CD	1	1	1	3
hsa-miR-940	PIGR	1	1	1	3
hsa-miR-9-5p	PIGM	1	1	1	3
hsa-miR-1304-3p	PIGG	1	1	1	3
hsa-miR-4746-5p	PIGA	1	1	1	3
hsa-miR-301b-3p	PIGA	1	1	1	3
hsa-miR-130b-3p	PIGA	1	1	1	3
hsa-miR-9-5p	PI4K2A	1	1	1	3
hsa-miR-3616-3p	PHYHIP	1	1	1	3
hsa-miR-20b-5p	PHTF2	1	1	1	3
hsa-miR-106a-5p	PHTF2	1	1	1	3
hsa-miR-363-3p	PHLPP2	1	1	1	3
hsa-miR-141-3p	PHLPP2	1	1	1	3
hsa-miR-141-3p	PHLPP1	1	1	1	3
hsa-miR-518a-5p	PHLDA3	1	1	1	3
hsa-miR-4665-5p	PHLDA3	1	1	1	3
hsa-miR-527	PHLDA3	1	1	1	3
hsa-miR-3616-5p	PHIP	1	1	1	3
hsa-miR-6499-3p	PHGDH	1	1	1	3
hsa-miR-20b-5p	PHF6	1	1	1	3
hsa-miR-130b-3p	PHF3	1	1	1	3
hsa-miR-1301-3p	PHF19	1	1	1	3
hsa-miR-548d-3p	PHF19	1	1	1	3
hsa-miR-122-5p	PHF14	1	1	1	3
hsa-miR-3176	PHF13	1	1	1	3
hsa-miR-211-5p	PHF13	1	1	1	3
hsa-miR-548f-3p	PHF12	1	1	1	3
hsa-miR-301b-3p	PHF12	1	1	1	3
hsa-miR-130b-3p	PHF12	1	1	1	3
hsa-miR-205-5p	PHC2	1	1	1	3
hsa-miR-522-3p	PHAX	1	1	1	3
hsa-miR-577	PGRMC1	1	1	1	3
hsa-miR-20b-5p	PGM2L1	1	1	1	3
hsa-miR-3614-5p	PGGT1B	1	1	1	3
hsa-miR-4664-5p	PFN1	1	1	1	3
hsa-miR-20b-5p	PFKP	1	1	1	3
hsa-miR-512-3p	PFKP	1	1	1	3
hsa-miR-106a-5p	PFKP	1	1	1	3
hsa-miR-940	PFAS	1	1	1	3

hsa-miR-940	PEX26	1	1	1	3
hsa-miR-629-3p	PERP	1	1	1	3
hsa-miR-363-3p	PER2	1	1	1	3
hsa-miR-3187-3p	PER2	1	1	1	3
hsa-miR-6715a-3p	PER2	1	1	1	3
hsa-miR-767-5p	PEG10	1	1	1	3
hsa-miR-548y	PEG10	1	1	1	3
hsa-miR-548j-5p	PEG10	1	1	1	3
hsa-miR-363-3p	PDPN	1	1	1	3
hsa-miR-940	PDPN	1	1	1	3
hsa-miR-6844	PDPK1	1	1	1	3
hsa-miR-429	PDPK1	1	1	1	3
hsa-miR-200c-3p	PDPK1	1	1	1	3
hsa-miR-200b-3p	PDPK1	1	1	1	3
hsa-miR-3065-5p	PDP2	1	1	1	3
hsa-miR-205-3p	PDLIM5	1	1	1	3
hsa-miR-93-3p	PDIK1L	1	1	1	3
hsa-miR-3662	PDIK1L	1	1	1	3
hsa-miR-1226-3p	PDIK1L	1	1	1	3
hsa-miR-130b-3p	PDGFRA	1	1	1	3
hsa-miR-6715b-3p	PDE7B	1	1	1	3
hsa-miR-940	PDE7B	1	1	1	3
hsa-miR-6715a-3p	PDE7B	1	1	1	3
hsa-miR-210-5p	PDE7A	1	1	1	3
hsa-miR-18b-5p	PDE4D	1	1	1	3
hsa-miR-7-5p	PDE4D	1	1	1	3
hsa-miR-548d-3p	PDE4D	1	1	1	3
hsa-miR-18a-5p	PDE4D	1	1	1	3
hsa-miR-130b-3p	PDE3B	1	1	1	3
hsa-miR-130b-5p	PDE3A	1	1	1	3
hsa-miR-183-5p	PDCD6	1	1	1	3
hsa-miR-183-5p	PDCD4	1	1	1	3
hsa-miR-3187-3p	PCSK6	1	1	1	3
hsa-miR-9-3p	PCMTD1	1	1	1	3
hsa-miR-548j-5p	PCMTD1	1	1	1	3
hsa-miR-363-3p	PCMTD1	1	1	1	3
hsa-miR-548y	PCMTD1	1	1	1	3
hsa-miR-1283	PCMTD1	1	1	1	3
hsa-miR-3065-5p	PCMTD1	1	1	1	3
hsa-miR-940	PCCB	1	1	1	3
hsa-miR-3691-5p	PCBP2	1	1	1	3
hsa-miR-4724-5p	PCBP1	1	1	1	3
hsa-miR-363-3p	PAX9	1	1	1	3
hsa-miR-7-5p	PAX6	1	1	1	3
hsa-miR-577	PARP1	1	1	1	3
hsa-miR-7-5p	PARP1	1	1	1	3
hsa-miR-31-5p	PARP1	1	1	1	3
hsa-miR-18b-5p	PARD6B	1	1	1	3
hsa-miR-200b-3p	PARD6B	1	1	1	3
hsa-miR-429	PARD6B	1	1	1	3
hsa-miR-18a-5p	PARD6B	1	1	1	3
hsa-miR-200c-3p	PARD6B	1	1	1	3
hsa-miR-20b-5p	PARD6B	1	1	1	3
hsa-miR-940	PAPD7	1	1	1	3
hsa-miR-363-3p	PAPD7	1	1	1	3
hsa-miR-1266-5p	PAPD7	1	1	1	3
hsa-miR-301b-3p	PAPD4	1	1	1	3
hsa-miR-20b-5p	PANK3	1	1	1	3

hsa-miR-3074-5p	PAG1	1	1	1	3
hsa-miR-548y	PAFAH1B2	1	1	1	3
hsa-miR-518a-5p	PAFAH1B2	1	1	1	3
hsa-miR-527	PAFAH1B2	1	1	1	3
hsa-miR-7705	PAFAH1B2	1	1	1	3
hsa-miR-3662	PAFAH1B2	1	1	1	3
hsa-miR-548j-5p	PAFAH1B2	1	1	1	3
hsa-miR-20b-5p	PAFAH1B1	1	1	1	3
hsa-miR-4665-5p	PADI1	1	1	1	3
hsa-miR-940	PACS2	1	1	1	3
hsa-miR-215-5p	PABPC4	1	1	1	3
hsa-miR-9-5p	P4HA2	1	1	1	3
hsa-miR-122-5p	P4HA1	1	1	1	3
hsa-miR-200b-3p	OXR1	1	1	1	3
hsa-miR-20b-5p	OXR1	1	1	1	3
hsa-miR-3662	OTUD4	1	1	1	3
hsa-miR-130b-3p	OTUD4	1	1	1	3
hsa-miR-767-5p	OTUD4	1	1	1	3
hsa-miR-130b-3p	OTUD3	1	1	1	3
hsa-miR-20b-5p	OSTM1	1	1	1	3
hsa-miR-106a-5p	OSTM1	1	1	1	3
hsa-miR-636	OSBPL8	1	1	1	3
hsa-miR-6499-3p	OSBPL3	1	1	1	3
hsa-miR-7-5p	OSBPL11	1	1	1	3
hsa-miR-20b-5p	ORMDL3	1	1	1	3
hsa-miR-4446-3p	ORC5	1	1	1	3
hsa-miR-940	ORC4	1	1	1	3
hsa-miR-122-5p	ORC2	1	1	1	3
hsa-miR-5001-3p	ORAI2	1	1	1	3
hsa-miR-9-5p	OPTN	1	1	1	3
hsa-miR-1269a	OPHN1	1	1	1	3
hsa-miR-9-5p	ONECUT2	1	1	1	3
hsa-miR-106a-3p	OMD	1	1	1	3
hsa-miR-141-3p	OGT	1	1	1	3
hsa-miR-200a-3p	OGT	1	1	1	3
hsa-miR-3616-3p	OGT	1	1	1	3
hsa-miR-106a-3p	ODF4	1	1	1	3
hsa-miR-425-5p	OCRL	1	1	1	3
hsa-miR-20b-5p	OCRL	1	1	1	3
hsa-miR-522-3p	NYAP2	1	1	1	3
hsa-miR-7-5p	NXT2	1	1	1	3
hsa-miR-130b-3p	NUS1	1	1	1	3
hsa-miR-301b-3p	NUS1	1	1	1	3
hsa-miR-527	NUS1	1	1	1	3
hsa-miR-518a-5p	NUS1	1	1	1	3
hsa-miR-18a-3p	NUP98	1	1	1	3
hsa-miR-3187-3p	NUP98	1	1	1	3
hsa-miR-205-3p	NUP54	1	1	1	3
hsa-miR-141-5p	NUP50	1	1	1	3
hsa-miR-363-3p	NUP43	1	1	1	3
hsa-miR-20b-5p	NUP35	1	1	1	3
hsa-miR-146a-5p	NUMB	1	1	1	3
hsa-miR-31-5p	NUMB	1	1	1	3
hsa-miR-363-3p	NUFIP2	1	1	1	3
hsa-miR-3619-5p	NUFIP2	1	1	1	3
hsa-miR-429	NUFIP2	1	1	1	3
hsa-miR-200c-3p	NUFIP2	1	1	1	3
hsa-miR-135b-5p	NUFIP2	1	1	1	3

hsa-miR-7974	NUFIP2	1	1	1	3
hsa-miR-3065-5p	NUFIP2	1	1	1	3
hsa-miR-182-5p	NUFIP2	1	1	1	3
hsa-miR-183-5p	NUFIP2	1	1	1	3
hsa-miR-200b-3p	NUFIP2	1	1	1	3
hsa-miR-6891-5p	NUFIP2	1	1	1	3
hsa-miR-636	NUFIP2	1	1	1	3
hsa-miR-3662	NUDT12	1	1	1	3
hsa-miR-556-3p	NUAK1	1	1	1	3
hsa-miR-211-5p	NUAK1	1	1	1	3
hsa-miR-200c-3p	NTRK2	1	1	1	3
hsa-miR-200c-3p	NTF3	1	1	1	3
hsa-miR-122-5p	NT5C3A	1	1	1	3
hsa-miR-3691-5p	NRXN1	1	1	1	3
hsa-miR-20b-5p	NRIP3	1	1	1	3
hsa-miR-106a-5p	NRIP3	1	1	1	3
hsa-miR-1229-3p	NRIP1	1	1	1	3
hsa-miR-7-5p	NREP	1	1	1	3
hsa-miR-20b-5p	NRBP1	1	1	1	3
hsa-miR-200b-3p	NRBP1	1	1	1	3
hsa-miR-106a-5p	NRBP1	1	1	1	3
hsa-miR-200c-3p	NRBP1	1	1	1	3
hsa-miR-429	NRBP1	1	1	1	3
hsa-miR-526b-5p	NRBF2	1	1	1	3
hsa-miR-301b-3p	NRBF2	1	1	1	3
hsa-miR-130b-3p	NRBF2	1	1	1	3
hsa-miR-425-5p	NRAS	1	1	1	3
hsa-miR-3664-5p	NR6A1	1	1	1	3
hsa-miR-18a-5p	NR3C1	1	1	1	3
hsa-miR-182-5p	NR3C1	1	1	1	3
hsa-miR-183-5p	NR3C1	1	1	1	3
hsa-miR-548d-3p	NR2F2	1	1	1	3
hsa-miR-3161	NR2C2	1	1	1	3
hsa-miR-106a-5p	NR2C2	1	1	1	3
hsa-miR-20b-5p	NR2C2	1	1	1	3
hsa-miR-556-3p	NR2C2	1	1	1	3
hsa-miR-7-5p	NR1H2	1	1	1	3
hsa-miR-9-3p	NQO2	1	1	1	3
hsa-miR-1301-3p	NPTXR	1	1	1	3
hsa-miR-3150b-3p	NPTXR	1	1	1	3
hsa-miR-211-5p	NPTX1	1	1	1	3
hsa-miR-182-5p	NPTX1	1	1	1	3
hsa-miR-205-3p	NPTN	1	1	1	3
hsa-miR-3662	NPTN	1	1	1	3
hsa-miR-449b-3p	NPPC	1	1	1	3
hsa-miR-122-5p	NPEPPS	1	1	1	3
hsa-miR-20b-5p	NPAT	1	1	1	3
hsa-miR-106a-5p	NPAT	1	1	1	3
hsa-miR-18a-3p	NOTCH4	1	1	1	3
hsa-miR-1248	NOTCH2	1	1	1	3
hsa-miR-205-5p	NOTCH2	1	1	1	3
hsa-miR-130b-5p	NOTCH2	1	1	1	3
hsa-miR-200c-3p	NOTCH1	1	1	1	3
hsa-miR-449a	NOTCH1	1	1	1	3
hsa-miR-200b-3p	NOTCH1	1	1	1	3
hsa-miR-1248	NONO	1	1	1	3
hsa-miR-1304-3p	NOM1	1	1	1	3
hsa-miR-31-5p	NOL9	1	1	1	3

hsa-miR-1276	NOL11	1	1	1	3
hsa-miR-200c-3p	NOG	1	1	1	3
hsa-miR-215-5p	NOD2	1	1	1	3
hsa-miR-130b-5p	NLGN4X	1	1	1	3
hsa-miR-4745-3p	NKX2-5	1	1	1	3
hsa-miR-106a-5p	NKIRAS1	1	1	1	3
hsa-miR-20b-5p	NKIRAS1	1	1	1	3
hsa-miR-301b-3p	NIPA1	1	1	1	3
hsa-miR-130b-3p	NIPA1	1	1	1	3
hsa-miR-205-3p	NIN	1	1	1	3
hsa-miR-20b-5p	NIN	1	1	1	3
hsa-miR-106a-5p	NIN	1	1	1	3
hsa-miR-9-5p	NIN	1	1	1	3
hsa-miR-548f-3p	NHSL1	1	1	1	3
hsa-miR-96-5p	NHLRC3	1	1	1	3
hsa-miR-20b-5p	NHLRC3	1	1	1	3
hsa-miR-940	NHLRC2	1	1	1	3
hsa-miR-122-5p	NFX1	1	1	1	3
hsa-miR-9-5p	NFKB1	1	1	1	3
hsa-miR-6777-5p	NFIC	1	1	1	3
hsa-miR-3150b-3p	NFIC	1	1	1	3
hsa-miR-363-5p	NFIC	1	1	1	3
hsa-miR-130b-3p	NFIB	1	1	1	3
hsa-miR-512-3p	NFIB	1	1	1	3
hsa-miR-9-5p	NFATC3	1	1	1	3
hsa-miR-106a-5p	NFAT5	1	1	1	3
hsa-miR-20b-5p	NFAT5	1	1	1	3
hsa-miR-205-5p	NFAT5	1	1	1	3
hsa-miR-4446-3p	NFASC	1	1	1	3
hsa-miR-940	NF2	1	1	1	3
hsa-miR-31-5p	NF2	1	1	1	3
hsa-miR-20b-5p	NETO2	1	1	1	3
hsa-miR-3662	NETO2	1	1	1	3
hsa-miR-522-3p	NETO2	1	1	1	3
hsa-miR-106a-5p	NETO2	1	1	1	3
hsa-miR-877-3p	NEK9	1	1	1	3
hsa-miR-548j-5p	NEK7	1	1	1	3
hsa-miR-548y	NEK7	1	1	1	3
hsa-miR-6793-5p	NEK7	1	1	1	3
hsa-miR-1248	NEGR1	1	1	1	3
hsa-miR-18a-5p	NEDD9	1	1	1	3
hsa-miR-205-5p	NDUFA4	1	1	1	3
hsa-miR-7-5p	NDFIP2	1	1	1	3
hsa-miR-130b-3p	NDEL1	1	1	1	3
hsa-miR-4664-5p	NCOA3	1	1	1	3
hsa-miR-3664-5p	NCOA3	1	1	1	3
hsa-miR-215-5p	NCOA3	1	1	1	3
hsa-miR-20b-5p	NCOA3	1	1	1	3
hsa-miR-3150b-3p	NCOA3	1	1	1	3
hsa-miR-200b-3p	NCOA2	1	1	1	3
hsa-miR-429	NCOA2	1	1	1	3
hsa-miR-200c-3p	NCOA2	1	1	1	3
hsa-miR-6728-5p	NCL	1	1	1	3
hsa-miR-522-3p	NCL	1	1	1	3
hsa-miR-130b-3p	NCKAP5	1	1	1	3
hsa-miR-3065-5p	NCAM2	1	1	1	3
hsa-miR-548d-3p	NAV2	1	1	1	3
hsa-miR-3619-5p	NAP1L4	1	1	1	3

hsa-miR-20b-5p	NAGK	1	1	1	3
hsa-miR-106a-5p	NAGK	1	1	1	3
hsa-miR-20b-5p	NACC2	1	1	1	3
hsa-miR-106a-5p	NACC2	1	1	1	3
hsa-miR-3189-3p	NACC2	1	1	1	3
hsa-miR-210-5p	NACC2	1	1	1	3
hsa-miR-6715a-3p	NACA2	1	1	1	3
hsa-miR-6715b-3p	NACA2	1	1	1	3
hsa-miR-106a-5p	NABP1	1	1	1	3
hsa-miR-20b-5p	NABP1	1	1	1	3
hsa-miR-301b-3p	NAA50	1	1	1	3
hsa-miR-130b-3p	NAA50	1	1	1	3
hsa-miR-130b-3p	NAA30	1	1	1	3
hsa-miR-183-3p	N4BP2	1	1	1	3
hsa-miR-31-5p	MZT1	1	1	1	3
hsa-miR-629-3p	MYOCD	1	1	1	3
hsa-miR-548d-3p	MYO6	1	1	1	3
hsa-miR-3150b-3p	MYO1C	1	1	1	3
hsa-miR-363-3p	MYO1B	1	1	1	3
hsa-miR-363-3p	MYLIP	1	1	1	3
hsa-miR-4665-5p	MYL12A	1	1	1	3
hsa-miR-3065-5p	MYEF2	1	1	1	3
hsa-miR-767-5p	MYCN	1	1	1	3
hsa-miR-449c-5p	MYC	1	1	1	3
hsa-miR-548d-3p	MYBL1	1	1	1	3
hsa-miR-3065-5p	MYBL1	1	1	1	3
hsa-miR-138-5p	MXD1	1	1	1	3
hsa-miR-1226-3p	MUC1	1	1	1	3
hsa-miR-182-5p	MTSS1	1	1	1	3
hsa-miR-5684	MTRNR2L8	1	1	1	3
hsa-miR-5684	MTRNR2L6	1	1	1	3
hsa-miR-5684	MTRNR2L1	1	1	1	3
hsa-miR-548j-5p	MTMR6	1	1	1	3
hsa-miR-548y	MTMR6	1	1	1	3
hsa-miR-20b-5p	MTMR3	1	1	1	3
hsa-miR-106a-5p	MTMR3	1	1	1	3
hsa-miR-4665-5p	MTHFR	1	1	1	3
hsa-miR-1910-5p	MTHFD2	1	1	1	3
hsa-miR-9-5p	MTHFD2	1	1	1	3
hsa-miR-548j-5p	MTHFD1	1	1	1	3
hsa-miR-548y	MTHFD1	1	1	1	3
hsa-miR-940	MTFMT	1	1	1	3
hsa-miR-106a-5p	MTF1	1	1	1	3
hsa-miR-20b-5p	MTF1	1	1	1	3
hsa-miR-449c-5p	MTDH	1	1	1	3
hsa-miR-1248	MTAP	1	1	1	3
hsa-miR-200c-3p	MSN	1	1	1	3
hsa-miR-215-5p	MSN	1	1	1	3
hsa-miR-200b-3p	MSN	1	1	1	3
hsa-miR-106a-5p	MSMO1	1	1	1	3
hsa-miR-301b-3p	MSMO1	1	1	1	3
hsa-miR-130b-3p	MSMO1	1	1	1	3
hsa-miR-135b-3p	MSL2	1	1	1	3
hsa-miR-449b-3p	MSL1	1	1	1	3
hsa-miR-6891-5p	MRRF	1	1	1	3
hsa-miR-629-3p	MRPS27	1	1	1	3
hsa-miR-548f-3p	MRPS10	1	1	1	3
hsa-miR-527	MRPL17	1	1	1	3

hsa-miR-518a-5p	MRPL17	1	1	1	3
hsa-miR-548j-5p	MPZL1	1	1	1	3
hsa-miR-548y	MPZL1	1	1	1	3
hsa-miR-548f-3p	MPP5	1	1	1	3
hsa-miR-3619-5p	MPDU1	1	1	1	3
hsa-miR-940	MORN4	1	1	1	3
hsa-miR-767-5p	MORF4L2	1	1	1	3
hsa-miR-96-5p	MORF4L1	1	1	1	3
hsa-miR-20b-5p	MORF4L1	1	1	1	3
hsa-miR-767-5p	MORF4L1	1	1	1	3
hsa-miR-1226-3p	MORF4L1	1	1	1	3
hsa-miR-106a-5p	MORF4L1	1	1	1	3
hsa-miR-3662	MOB4	1	1	1	3
hsa-miR-940	MOB3A	1	1	1	3
hsa-miR-522-3p	MOB1B	1	1	1	3
hsa-miR-653-5p	MOB1B	1	1	1	3
hsa-miR-363-3p	MOAP1	1	1	1	3
hsa-miR-4446-3p	MNT	1	1	1	3
hsa-miR-301b-3p	MMGT1	1	1	1	3
hsa-miR-130b-3p	MMGT1	1	1	1	3
hsa-miR-205-5p	MMD	1	1	1	3
hsa-miR-4763-5p	MMAB	1	1	1	3
hsa-miR-4763-5p	MLXIPL	1	1	1	3
hsa-miR-940	MLXIP	1	1	1	3
hsa-miR-106a-3p	MLLT10	1	1	1	3
hsa-miR-940	MLEC	1	1	1	3
hsa-miR-6715a-3p	MKX	1	1	1	3
hsa-miR-636	MKNK2	1	1	1	3
hsa-miR-106a-5p	MKNK2	1	1	1	3
hsa-miR-20b-5p	MKNK2	1	1	1	3
hsa-miR-182-5p	MITF	1	1	1	3
hsa-miR-4665-5p	MINK1	1	1	1	3
hsa-miR-106a-5p	MINK1	1	1	1	3
hsa-miR-15b-3p	MINK1	1	1	1	3
hsa-miR-3662	MINK1	1	1	1	3
hsa-miR-20b-5p	MINK1	1	1	1	3
hsa-miR-7-5p	MIF4GD	1	1	1	3
hsa-miR-20b-3p	MIER1	1	1	1	3
hsa-miR-20b-5p	MIDN	1	1	1	3
hsa-miR-106a-5p	MIDN	1	1	1	3
hsa-miR-130b-3p	MID1IP1	1	1	1	3
hsa-miR-548f-3p	MID1IP1	1	1	1	3
hsa-miR-301b-3p	MID1IP1	1	1	1	3
hsa-miR-25-5p	MICAL2	1	1	1	3
hsa-miR-629-3p	MGAT5	1	1	1	3
hsa-miR-548d-3p	MGARP	1	1	1	3
hsa-miR-3074-5p	MFSD6	1	1	1	3
hsa-miR-3619-5p	MFN2	1	1	1	3
hsa-miR-363-3p	MFF	1	1	1	3
hsa-miR-629-3p	MEX3A	1	1	1	3
hsa-miR-4665-5p	MEX3A	1	1	1	3
hsa-miR-449b-5p	MET	1	1	1	3
hsa-miR-449a	MET	1	1	1	3
hsa-miR-3074-5p	MESDC2	1	1	1	3
hsa-miR-9-5p	MESDC1	1	1	1	3
hsa-miR-363-3p	MED19	1	1	1	3
hsa-miR-96-5p	MED1	1	1	1	3
hsa-miR-205-5p	MED1	1	1	1	3

hsa-miR-6891-5p	MECP2	1	1	1	3
hsa-miR-449a	MDM4	1	1	1	3
hsa-miR-449b-5p	MDM4	1	1	1	3
hsa-miR-210-3p	MDGA1	1	1	1	3
hsa-miR-548j-5p	MDFIC	1	1	1	3
hsa-miR-548y	MDFIC	1	1	1	3
hsa-miR-363-3p	MCOLN2	1	1	1	3
hsa-miR-216b-5p	MCM4	1	1	1	3
hsa-miR-20b-5p	MCL1	1	1	1	3
hsa-miR-20b-5p	MCC	1	1	1	3
hsa-miR-106a-5p	MCC	1	1	1	3
hsa-miR-301b-3p	MCC	1	1	1	3
hsa-miR-130b-3p	MCC	1	1	1	3
hsa-miR-9-5p	MCC	1	1	1	3
hsa-miR-548d-3p	MBNL3	1	1	1	3
hsa-miR-301b-3p	MBNL3	1	1	1	3
hsa-miR-130b-3p	MBNL3	1	1	1	3
hsa-miR-629-3p	MBNL1	1	1	1	3
hsa-miR-211-5p	MBNL1	1	1	1	3
hsa-miR-130b-3p	MBNL1	1	1	1	3
hsa-miR-301b-3p	MBNL1	1	1	1	3
hsa-miR-1301-3p	MBNL1	1	1	1	3
hsa-miR-6499-3p	MBD6	1	1	1	3
hsa-miR-96-5p	MBD4	1	1	1	3
hsa-miR-130b-3p	MB21D2	1	1	1	3
hsa-miR-301b-3p	MB21D2	1	1	1	3
hsa-miR-3176	MAU2	1	1	1	3
hsa-miR-200b-3p	MATR3	1	1	1	3
hsa-miR-106a-5p	MASTL	1	1	1	3
hsa-miR-20b-5p	MASTL	1	1	1	3
hsa-miR-449c-5p	MARVELD2	1	1	1	3
hsa-miR-3934-3p	MARCKSL1	1	1	1	3
hsa-miR-1266-5p	MARCKSL1	1	1	1	3
hsa-miR-527	MARCKS	1	1	1	3
hsa-miR-518a-5p	MARCKS	1	1	1	3
hsa-miR-205-5p	MARCKS	1	1	1	3
hsa-miR-106a-5p	MAPRE3	1	1	1	3
hsa-miR-301b-3p	MAPRE3	1	1	1	3
hsa-miR-20b-5p	MAPRE3	1	1	1	3
hsa-miR-130b-3p	MAPRE3	1	1	1	3
hsa-miR-18a-3p	MAPKBP1	1	1	1	3
hsa-miR-483-3p	MAPKAPK3	1	1	1	3
hsa-miR-888-5p	MAPK8	1	1	1	3
hsa-miR-3662	MAPK8	1	1	1	3
hsa-miR-200c-3p	MAPK7	1	1	1	3
hsa-miR-429	MAPK7	1	1	1	3
hsa-miR-3662	MAPK6	1	1	1	3
hsa-miR-629-3p	MAPK14	1	1	1	3
hsa-miR-106a-5p	MAPK1	1	1	1	3
hsa-miR-301b-3p	MAPK1	1	1	1	3
hsa-miR-130b-3p	MAPK1	1	1	1	3
hsa-miR-20b-5p	MAPK1	1	1	1	3
hsa-miR-449b-3p	MAPK1	1	1	1	3
hsa-miR-18a-5p	MAP7D1	1	1	1	3
hsa-miR-7974	MAP7D1	1	1	1	3
hsa-miR-1266-5p	MAP3K9	1	1	1	3
hsa-miR-4446-3p	MAP3K9	1	1	1	3
hsa-miR-130b-3p	MAP3K9	1	1	1	3

hsa-miR-1248	MAP3K9	1	1	1	3
hsa-miR-301b-3p	MAP3K9	1	1	1	3
hsa-miR-425-5p	MAP3K5	1	1	1	3
hsa-miR-9-5p	MAP3K3	1	1	1	3
hsa-miR-20b-5p	MAP3K3	1	1	1	3
hsa-miR-96-5p	MAP3K3	1	1	1	3
hsa-miR-106a-5p	MAP3K2	1	1	1	3
hsa-miR-20b-5p	MAP3K2	1	1	1	3
hsa-miR-138-5p	MAP3K11	1	1	1	3
hsa-miR-425-5p	MAP2K6	1	1	1	3
hsa-miR-363-3p	MAP2K4	1	1	1	3
hsa-miR-449a	MAP2K1	1	1	1	3
hsa-miR-363-3p	MAP1B	1	1	1	3
hsa-miR-9-5p	MAP1B	1	1	1	3
hsa-miR-205-3p	MANEA	1	1	1	3
hsa-miR-130b-5p	MAML1	1	1	1	3
hsa-miR-1301-3p	MAGI2	1	1	1	3
hsa-miR-141-3p	MACC1	1	1	1	3
hsa-miR-4763-5p	MACC1	1	1	1	3
hsa-miR-200a-3p	MACC1	1	1	1	3
hsa-miR-211-5p	M6PR	1	1	1	3
hsa-miR-135b-5p	LZTS1	1	1	1	3
hsa-miR-20b-5p	LYSMD3	1	1	1	3
hsa-miR-205-5p	LYSMD3	1	1	1	3
hsa-miR-526b-5p	LYPLA1	1	1	1	3
hsa-miR-7-5p	LYPD3	1	1	1	3
hsa-miR-205-3p	LUZP2	1	1	1	3
hsa-miR-3619-5p	LUZP1	1	1	1	3
hsa-miR-7-5p	LUC7L2	1	1	1	3
hsa-miR-182-5p	LSM14A	1	1	1	3
hsa-miR-892a	LSM14A	1	1	1	3
hsa-miR-548d-3p	LSM14A	1	1	1	3
hsa-miR-3127-3p	LSAMP	1	1	1	3
hsa-miR-205-5p	LRRK2	1	1	1	3
hsa-miR-577	LRRFIP2	1	1	1	3
hsa-miR-184	LRRC8A	1	1	1	3
hsa-miR-7-5p	LRRC59	1	1	1	3
hsa-miR-629-3p	LRRC38	1	1	1	3
hsa-miR-3127-3p	LRRC20	1	1	1	3
hsa-miR-3150b-3p	LRRC20	1	1	1	3
hsa-miR-130b-3p	LRP8	1	1	1	3
hsa-miR-183-5p	LRP6	1	1	1	3
hsa-miR-200c-3p	LRP1B	1	1	1	3
hsa-miR-205-5p	LRP1	1	1	1	3
hsa-miR-20b-5p	LPGAT1	1	1	1	3
hsa-miR-4665-5p	LPCAT3	1	1	1	3
hsa-miR-205-5p	LPCAT1	1	1	1	3
hsa-miR-200c-3p	LPAR1	1	1	1	3
hsa-miR-200b-3p	LOX	1	1	1	3
hsa-miR-449c-3p	LMNB1	1	1	1	3
hsa-miR-1248	LMNB1	1	1	1	3
hsa-miR-1301-3p	LMNB1	1	1	1	3
hsa-miR-301b-3p	LMLN	1	1	1	3
hsa-miR-130b-3p	LMLN	1	1	1	3
hsa-miR-548f-3p	LMLN	1	1	1	3
hsa-miR-940	LIX1L	1	1	1	3
hsa-miR-449c-5p	LITAF	1	1	1	3
hsa-miR-1301-3p	LIPA	1	1	1	3

hsa-miR-548j-5p	LIPA	1	1	1	3
hsa-miR-548y	LIPA	1	1	1	3
hsa-miR-18b-5p	LIN54	1	1	1	3
hsa-miR-18a-5p	LIN54	1	1	1	3
hsa-miR-215-5p	LIMS1	1	1	1	3
hsa-miR-20b-5p	LIMK1	1	1	1	3
hsa-miR-106a-5p	LIMK1	1	1	1	3
hsa-miR-3176	LIMD1	1	1	1	3
hsa-miR-20b-5p	LIMA1	1	1	1	3
hsa-miR-106a-5p	LIMA1	1	1	1	3
hsa-miR-363-3p	LHFPL2	1	1	1	3
hsa-miR-9-5p	LHFPL2	1	1	1	3
hsa-miR-526b-5p	LEPROTL1	1	1	1	3
hsa-miR-629-3p	LEMD2	1	1	1	3
hsa-miR-449a	LEF1	1	1	1	3
hsa-miR-9-5p	LDLRAP1	1	1	1	3
hsa-miR-106a-5p	LDLR	1	1	1	3
hsa-miR-130b-3p	LDLR	1	1	1	3
hsa-miR-20b-5p	LDLR	1	1	1	3
hsa-miR-301b-3p	LDLR	1	1	1	3
hsa-miR-489-3p	LDHA	1	1	1	3
hsa-miR-205-5p	LCOR	1	1	1	3
hsa-miR-3923	LCOR	1	1	1	3
hsa-miR-425-5p	LCOR	1	1	1	3
hsa-miR-130b-3p	LCLAT1	1	1	1	3
hsa-miR-301b-3p	LCLAT1	1	1	1	3
hsa-miR-130b-3p	LBR	1	1	1	3
hsa-miR-31-5p	LATS2	1	1	1	3
hsa-miR-20b-5p	LASP1	1	1	1	3
hsa-miR-106a-5p	LASP1	1	1	1	3
hsa-miR-4446-3p	LAPTM5	1	1	1	3
hsa-miR-6854-5p	LAPTM4B	1	1	1	3
hsa-miR-20b-5p	LAPTM4A	1	1	1	3
hsa-miR-106a-5p	LAPTM4A	1	1	1	3
hsa-miR-548d-3p	LAMTOR1	1	1	1	3
hsa-miR-1276	LAMP2	1	1	1	3
hsa-miR-205-5p	LAMC1	1	1	1	3
hsa-miR-183-3p	LAMA2	1	1	1	3
hsa-miR-215-5p	L2HGDH	1	1	1	3
hsa-miR-18a-3p	KY	1	1	1	3
hsa-miR-629-3p	KRBOX4	1	1	1	3
hsa-miR-96-5p	KRAS	1	1	1	3
hsa-miR-877-5p	KRAS	1	1	1	3
hsa-miR-1248	KPNA6	1	1	1	3
hsa-miR-106a-5p	KPNA2	1	1	1	3
hsa-miR-6715a-3p	KPNA2	1	1	1	3
hsa-miR-20b-5p	KPNA2	1	1	1	3
hsa-miR-3662	KPNA1	1	1	1	3
hsa-miR-1301-3p	KMT2D	1	1	1	3
hsa-miR-4758-3p	KMT2D	1	1	1	3
hsa-miR-3616-3p	KMT2D	1	1	1	3
hsa-miR-20b-5p	KMT2B	1	1	1	3
hsa-miR-106a-5p	KMT2B	1	1	1	3
hsa-miR-183-5p	KLRD1	1	1	1	3
hsa-miR-211-5p	KLHL40	1	1	1	3
hsa-miR-4665-5p	KLHL28	1	1	1	3
hsa-miR-106a-5p	KLHL28	1	1	1	3
hsa-miR-20b-5p	KLHL28	1	1	1	3

hsa-miR-183-5p	KLHL24	1	1	1	3
hsa-miR-183-5p	KLHL23	1	1	1	3
hsa-miR-892a	KLHL23	1	1	1	3
hsa-miR-20b-5p	KLHL20	1	1	1	3
hsa-miR-940	KLHL18	1	1	1	3
hsa-miR-363-3p	KLHL15	1	1	1	3
hsa-miR-1266-5p	KLHL12	1	1	1	3
hsa-miR-6891-5p	KLHDC3	1	1	1	3
hsa-miR-363-3p	KLHDC10	1	1	1	3
hsa-miR-548j-5p	KLF7	1	1	1	3
hsa-miR-548y	KLF7	1	1	1	3
hsa-miR-9-5p	KLF5	1	1	1	3
hsa-miR-135b-5p	KLF4	1	1	1	3
hsa-miR-7-5p	KLF4	1	1	1	3
hsa-miR-106a-5p	KLF3	1	1	1	3
hsa-miR-20b-5p	KLF3	1	1	1	3
hsa-miR-449c-3p	KLF3	1	1	1	3
hsa-miR-3619-5p	KLF16	1	1	1	3
hsa-miR-31-5p	KLF13	1	1	1	3
hsa-miR-216b-5p	KLF12	1	1	1	3
hsa-miR-141-3p	KLF11	1	1	1	3
hsa-miR-200a-3p	KLF11	1	1	1	3
hsa-miR-106a-5p	KLF10	1	1	1	3
hsa-miR-20b-5p	KLF10	1	1	1	3
hsa-miR-3127-3p	KIRREL	1	1	1	3
hsa-miR-183-5p	KIF5C	1	1	1	3
hsa-miR-5684	KIF5B	1	1	1	3
hsa-miR-363-3p	KIF5B	1	1	1	3
hsa-miR-892a	KIF5B	1	1	1	3
hsa-miR-215-5p	KIF5B	1	1	1	3
hsa-miR-183-5p	KIF2A	1	1	1	3
hsa-miR-20b-5p	KIF23	1	1	1	3
hsa-miR-106a-5p	KIF23	1	1	1	3
hsa-miR-1301-3p	KIF23	1	1	1	3
hsa-miR-6854-5p	KIF21B	1	1	1	3
hsa-miR-7-5p	KIF16B	1	1	1	3
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hsa-miR-130b-3p	KIF13A	1	1	1	3
hsa-miR-301b-3p	KIF13A	1	1	1	3
hsa-miR-429	KIF13A	1	1	1	3
hsa-miR-200b-3p	KIF13A	1	1	1	3
hsa-miR-1226-3p	KIAA1644	1	1	1	3
hsa-miR-93-3p	KIAA1549L	1	1	1	3
hsa-miR-200a-3p	KIAA1549	1	1	1	3
hsa-miR-141-3p	KIAA1549	1	1	1	3
hsa-miR-548d-3p	KIAA1456	1	1	1	3
hsa-miR-6815-3p	KIAA1191	1	1	1	3
hsa-miR-20b-5p	KIAA1147	1	1	1	3
hsa-miR-106a-5p	KIAA1147	1	1	1	3
hsa-miR-363-3p	KIAA1109	1	1	1	3
hsa-miR-20b-5p	KIAA0922	1	1	1	3
hsa-miR-106a-5p	KIAA0922	1	1	1	3
hsa-miR-106a-5p	KIAA0513	1	1	1	3
hsa-miR-20b-5p	KIAA0513	1	1	1	3
hsa-miR-93-3p	KIAA0355	1	1	1	3
hsa-miR-548y	KHSRP	1	1	1	3
hsa-miR-548j-5p	KHSRP	1	1	1	3
hsa-miR-200b-3p	KDR	1	1	1	3

hsa-miR-200c-3p	KDR	1	1	1	3
hsa-miR-548j-5p	KDM5A	1	1	1	3
hsa-miR-548y	KDM5A	1	1	1	3
hsa-miR-182-5p	KDM5A	1	1	1	3
hsa-miR-200c-5p	KDELR2	1	1	1	3
hsa-miR-130b-3p	KCTD20	1	1	1	3
hsa-miR-3619-5p	KCTD15	1	1	1	3
hsa-miR-183-3p	KCTD12	1	1	1	3
hsa-miR-183-3p	KCNT2	1	1	1	3
hsa-miR-548f-3p	KCNS2	1	1	1	3
hsa-miR-629-3p	KCNQ3	1	1	1	3
hsa-miR-512-3p	KCNJ8	1	1	1	3
hsa-miR-1304-3p	KCNJ6	1	1	1	3
hsa-miR-9-5p	KCNJ2	1	1	1	3
hsa-miR-7974	KCNIP3	1	1	1	3
hsa-miR-3150b-3p	KCND1	1	1	1	3
hsa-miR-210-3p	KCMF1	1	1	1	3
hsa-miR-106a-5p	KATNAL1	1	1	1	3
hsa-miR-205-3p	KATNAL1	1	1	1	3
hsa-miR-548y	KATNAL1	1	1	1	3
hsa-miR-548j-5p	KATNAL1	1	1	1	3
hsa-miR-20b-5p	KATNAL1	1	1	1	3
hsa-miR-6499-3p	KAT7	1	1	1	3
hsa-miR-3616-5p	KAT6B	1	1	1	3
hsa-miR-548f-3p	KANSL1	1	1	1	3
hsa-miR-200b-3p	JUN	1	1	1	3
hsa-miR-429	JUN	1	1	1	3
hsa-miR-200c-3p	JUN	1	1	1	3
hsa-miR-548f-3p	JMY	1	1	1	3
hsa-miR-522-3p	JMY	1	1	1	3
hsa-miR-96-5p	JAZF1	1	1	1	3
hsa-miR-31-5p	JAZF1	1	1	1	3
hsa-miR-301b-3p	JARID2	1	1	1	3
hsa-miR-130b-3p	JARID2	1	1	1	3
hsa-miR-20b-5p	JAK1	1	1	1	3
hsa-miR-3619-5p	JAG2	1	1	1	3
hsa-miR-9-3p	ITPRIPL2	1	1	1	3
hsa-miR-363-3p	ITPR1	1	1	1	3
hsa-miR-211-5p	ITPR1	1	1	1	3
hsa-miR-183-5p	ITGB1	1	1	1	3
hsa-miR-9-3p	ITGB1	1	1	1	3
hsa-miR-215-5p	ITGAV	1	1	1	3
hsa-miR-3065-5p	ITGA1	1	1	1	3
hsa-miR-20b-5p	ITCH	1	1	1	3
hsa-miR-210-3p	ISCU	1	1	1	3
hsa-miR-301a-5p	IRS2	1	1	1	3
hsa-miR-301b-5p	IRS2	1	1	1	3
hsa-miR-7-5p	IRS2	1	1	1	3
hsa-miR-7-5p	IRS1	1	1	1	3
hsa-miR-940	IRGQ	1	1	1	3
hsa-miR-4724-5p	IRF2BP2	1	1	1	3
hsa-miR-18a-5p	IRF2	1	1	1	3
hsa-miR-6728-5p	IRF2	1	1	1	3
hsa-miR-18b-5p	IRF2	1	1	1	3
hsa-miR-301b-3p	IRF1	1	1	1	3
hsa-miR-130b-3p	IRF1	1	1	1	3
hsa-miR-155-3p	IRAK3	1	1	1	3
hsa-miR-146a-5p	IRAK1	1	1	1	3

hsa-miR-940	IQSEC2	1	1	1	3
hsa-miR-449c-3p	IPO7	1	1	1	3
hsa-miR-141-3p	IPO5	1	1	1	3
hsa-miR-200a-3p	IPO5	1	1	1	3
hsa-miR-548y	IPMK	1	1	1	3
hsa-miR-548j-5p	IPMK	1	1	1	3
hsa-miR-1276	INTS2	1	1	1	3
hsa-miR-363-3p	INSIG1	1	1	1	3
hsa-miR-548f-3p	INSIG1	1	1	1	3
hsa-miR-3176	INO80D	1	1	1	3
hsa-miR-1229-3p	INO80D	1	1	1	3
hsa-miR-141-5p	INO80D	1	1	1	3
hsa-miR-526b-5p	INIP	1	1	1	3
hsa-miR-1301-3p	IMPDH1	1	1	1	3
hsa-miR-548f-3p	ILDR1	1	1	1	3
hsa-miR-548j-5p	IL6ST	1	1	1	3
hsa-miR-548y	IL6ST	1	1	1	3
hsa-miR-877-3p	IL2RA	1	1	1	3
hsa-miR-211-5p	IL11	1	1	1	3
hsa-miR-211-5p	IKZF2	1	1	1	3
hsa-miR-7-5p	IGSF8	1	1	1	3
hsa-miR-138-5p	IGLON5	1	1	1	3
hsa-miR-211-5p	IGF2R	1	1	1	3
hsa-miR-18a-5p	IGF2BP2	1	1	1	3
hsa-miR-877-5p	IGF2BP2	1	1	1	3
hsa-miR-577	IGF2BP1	1	1	1	3
hsa-miR-6891-5p	IGF2	1	1	1	3
hsa-miR-9-3p	IGF2	1	1	1	3
hsa-miR-4665-5p	IGF1R	1	1	1	3
hsa-miR-483-3p	IGF1	1	1	1	3
hsa-miR-1248	IFIT1	1	1	1	3
hsa-miR-3616-3p	IFFO2	1	1	1	3
hsa-miR-130b-3p	IER3IP1	1	1	1	3
hsa-miR-301b-3p	IER3IP1	1	1	1	3
hsa-miR-526b-5p	IDS	1	1	1	3
hsa-miR-3150b-3p	IDH3A	1	1	1	3
hsa-miR-183-5p	IDH2	1	1	1	3
hsa-miR-7-5p	IDE	1	1	1	3
hsa-miR-548f-3p	ID4	1	1	1	3
hsa-miR-940	ICMT	1	1	1	3
hsa-miR-205-3p	ICK	1	1	1	3
hsa-miR-1304-3p	IBA57	1	1	1	3
hsa-miR-1229-3p	HUNK	1	1	1	3
hsa-miR-20b-5p	HSPA8	1	1	1	3
hsa-miR-106a-5p	HSPA8	1	1	1	3
hsa-miR-6854-5p	HSPA4	1	1	1	3
hsa-miR-449a	HSPA1B	1	1	1	3
hsa-miR-449b-5p	HSPA1B	1	1	1	3
hsa-miR-141-5p	HSP90AA1	1	1	1	3
hsa-miR-4724-5p	HSP90AA1	1	1	1	3
hsa-miR-18a-5p	HSF2	1	1	1	3
hsa-miR-934	HSBP1	1	1	1	3
hsa-miR-130b-5p	HRH1	1	1	1	3
hsa-miR-130b-3p	HPRT1	1	1	1	3
hsa-miR-301b-3p	HPRT1	1	1	1	3
hsa-miR-211-5p	HOXC8	1	1	1	3
hsa-miR-31-5p	HOXC13	1	1	1	3
hsa-miR-141-3p	HOXB5	1	1	1	3

hsa-miR-200a-3p	HOXB5	1	1	1	3
hsa-miR-4665-5p	HOXB5	1	1	1	3
hsa-miR-7-5p	HOXB5	1	1	1	3
hsa-miR-182-5p	HOXA9	1	1	1	3
hsa-miR-3662	HNRNPU	1	1	1	3
hsa-miR-577	HNRNPU	1	1	1	3
hsa-miR-141-3p	HNRNPF	1	1	1	3
hsa-miR-155-3p	HNRNPF	1	1	1	3
hsa-miR-200a-3p	HNRNPF	1	1	1	3
hsa-miR-183-3p	HNRNPC	1	1	1	3
hsa-miR-4665-5p	HNRNPAB	1	1	1	3
hsa-miR-211-5p	HNRNPA2	1	1	1	3
hsa-miR-6877-5p	HNRNPA0	1	1	1	3
hsa-miR-449a	HNF4A	1	1	1	3
hsa-miR-6891-5p	HMGXB3	1	1	1	3
hsa-miR-7-5p	HMGXN4	1	1	1	3
hsa-miR-548y	HMGXN2	1	1	1	3
hsa-miR-548j-5p	HMGXN2	1	1	1	3
hsa-miR-18a-5p	HMGCS1	1	1	1	3
hsa-miR-106a-5p	HMGB3	1	1	1	3
hsa-miR-20b-5p	HMGB3	1	1	1	3
hsa-miR-3150b-3p	HMGB3	1	1	1	3
hsa-miR-891b	HMGB1	1	1	1	3
hsa-miR-4758-3p	HMGA1	1	1	1	3
hsa-miR-548j-5p	HMBOX1	1	1	1	3
hsa-miR-548y	HMBOX1	1	1	1	3
hsa-miR-20b-5p	HMBOX1	1	1	1	3
hsa-miR-106a-5p	HMBOX1	1	1	1	3
hsa-miR-18a-3p	HM13	1	1	1	3
hsa-miR-130b-3p	HIVEP2	1	1	1	3
hsa-miR-5684	HIVEP2	1	1	1	3
hsa-miR-363-3p	HIVEP1	1	1	1	3
hsa-miR-3065-5p	HIPK1	1	1	1	3
hsa-miR-512-3p	HIP1	1	1	1	3
hsa-miR-31-5p	HIF1AN	1	1	1	3
hsa-miR-20b-5p	HIF1A	1	1	1	3
hsa-miR-18b-5p	HIF1A	1	1	1	3
hsa-miR-6815-3p	HIF1A	1	1	1	3
hsa-miR-3662	HIF1A	1	1	1	3
hsa-miR-106a-3p	HIF1A	1	1	1	3
hsa-miR-18a-5p	HIF1A	1	1	1	3
hsa-miR-363-5p	HIC2	1	1	1	3
hsa-miR-6777-5p	HIC1	1	1	1	3
hsa-miR-1248	HHLA2	1	1	1	3
hsa-miR-526b-5p	HHIP	1	1	1	3
hsa-miR-7-5p	HELLS	1	1	1	3
hsa-miR-130b-3p	HEG1	1	1	1	3
hsa-miR-122-5p	HECW2	1	1	1	3
hsa-miR-122-5p	HECTD3	1	1	1	3
hsa-miR-636	HECTD2	1	1	1	3
hsa-miR-20b-3p	HECTD1	1	1	1	3
hsa-miR-20b-3p	HDHD2	1	1	1	3
hsa-miR-940	HDGFRP2	1	1	1	3
hsa-miR-548d-3p	HDGFRP2	1	1	1	3
hsa-miR-3619-5p	HDGF	1	1	1	3
hsa-miR-449b-3p	HCFC2	1	1	1	3
hsa-miR-211-5p	HCAR2	1	1	1	3
hsa-miR-6844	HBS1L	1	1	1	3

hsa-miR-301b-3p	HBP1	1	1	1	3
hsa-miR-106a-5p	HBP1	1	1	1	3
hsa-miR-130b-3p	HBP1	1	1	1	3
hsa-miR-20b-5p	HBP1	1	1	1	3
hsa-miR-20b-5p	HAUS8	1	1	1	3
hsa-miR-106a-5p	HAUS8	1	1	1	3
hsa-miR-20b-5p	HAS2	1	1	1	3
hsa-miR-106a-5p	HAS2	1	1	1	3
hsa-miR-130b-3p	HABP4	1	1	1	3
hsa-miR-301b-3p	HABP4	1	1	1	3
hsa-miR-3614-5p	H3F3B	1	1	1	3
hsa-miR-141-3p	H2AFZ	1	1	1	3
hsa-miR-200a-3p	H2AFZ	1	1	1	3
hsa-miR-122-5p	GYS1	1	1	1	3
hsa-miR-577	GXYLT2	1	1	1	3
hsa-miR-9-3p	GXYLT1	1	1	1	3
hsa-miR-18a-3p	GTPBP10	1	1	1	3
hsa-miR-489-3p	GTF3C4	1	1	1	3
hsa-miR-512-3p	GTF2H3	1	1	1	3
hsa-miR-891b	GTF2H1	1	1	1	3
hsa-miR-31-5p	GTF2E1	1	1	1	3
hsa-miR-363-3p	GTF2A1	1	1	1	3
hsa-miR-5684	GTF2A1	1	1	1	3
hsa-miR-155-3p	GTDC1	1	1	1	3
hsa-miR-15b-3p	GTDC1	1	1	1	3
hsa-miR-1910-5p	GSK3B	1	1	1	3
hsa-miR-548d-3p	GRPEL2	1	1	1	3
hsa-miR-548j-5p	GRM5	1	1	1	3
hsa-miR-548y	GRM5	1	1	1	3
hsa-miR-200a-3p	GRB2	1	1	1	3
hsa-miR-3934-5p	GRB2	1	1	1	3
hsa-miR-130b-3p	GRB10	1	1	1	3
hsa-miR-301b-3p	GRB10	1	1	1	3
hsa-miR-877-3p	GRAMD1B	1	1	1	3
hsa-miR-93-3p	GPR89B	1	1	1	3
hsa-miR-1226-3p	GPR26	1	1	1	3
hsa-miR-449a	GPR156	1	1	1	3
hsa-miR-431-5p	GPR155	1	1	1	3
hsa-miR-3934-3p	GPR155	1	1	1	3
hsa-miR-183-3p	GPR137B	1	1	1	3
hsa-miR-210-3p	GPD1L	1	1	1	3
hsa-miR-18a-3p	GPD1	1	1	1	3
hsa-miR-548f-3p	GPC4	1	1	1	3
hsa-miR-363-3p	GPBP1L1	1	1	1	3
hsa-miR-1276	GPBP1	1	1	1	3
hsa-miR-130b-3p	GPATCH8	1	1	1	3
hsa-miR-200c-3p	GPATCH8	1	1	1	3
hsa-miR-200b-3p	GPATCH8	1	1	1	3
hsa-miR-429	GPATCH8	1	1	1	3
hsa-miR-629-3p	GPATCH2L	1	1	1	3
hsa-miR-106a-3p	GOLPH3	1	1	1	3
hsa-miR-363-3p	GOLGA8J	1	1	1	3
hsa-miR-363-3p	GOLGA8B	1	1	1	3
hsa-miR-363-3p	GOLGA8A	1	1	1	3
hsa-miR-363-3p	GOLGA3	1	1	1	3
hsa-miR-512-3p	GOLGA2	1	1	1	3
hsa-miR-20b-5p	GOLGA1	1	1	1	3
hsa-miR-20b-5p	GNS	1	1	1	3

hsa-miR-106a-5p	GNS	1	1	1	3
hsa-miR-3664-3p	GNS	1	1	1	3
hsa-miR-122-5p	GNPDA2	1	1	1	3
hsa-miR-1266-5p	GNL1	1	1	1	3
hsa-miR-183-5p	GNG5	1	1	1	3
hsa-miR-363-5p	GNG4	1	1	1	3
hsa-miR-106a-5p	GNB5	1	1	1	3
hsa-miR-20b-5p	GNB5	1	1	1	3
hsa-miR-363-3p	GNAQ	1	1	1	3
hsa-miR-9-3p	GNAI1	1	1	1	3
hsa-miR-200a-3p	GNA13	1	1	1	3
hsa-miR-141-3p	GNA13	1	1	1	3
hsa-miR-130b-3p	GMFB	1	1	1	3
hsa-miR-301b-3p	GMFB	1	1	1	3
hsa-miR-449b-5p	GMFB	1	1	1	3
hsa-miR-6499-3p	GMFB	1	1	1	3
hsa-miR-449a	GMFB	1	1	1	3
hsa-miR-3176	GMEB1	1	1	1	3
hsa-miR-183-5p	GLUL	1	1	1	3
hsa-miR-6728-5p	GLUL	1	1	1	3
hsa-miR-205-3p	GLO1	1	1	1	3
hsa-miR-940	GLG1	1	1	1	3
hsa-miR-636	GLCE	1	1	1	3
hsa-miR-7-5p	GJC1	1	1	1	3
hsa-miR-892a	GIMAP1	1	1	1	3
hsa-miR-20b-5p	GIGYF1	1	1	1	3
hsa-miR-18b-5p	GIGYF1	1	1	1	3
hsa-miR-106a-5p	GIGYF1	1	1	1	3
hsa-miR-18a-5p	GIGYF1	1	1	1	3
hsa-miR-20b-5p	GID4	1	1	1	3
hsa-miR-363-3p	GID4	1	1	1	3
hsa-miR-106a-5p	GID4	1	1	1	3
hsa-miR-940	GGCX	1	1	1	3
hsa-miR-522-3p	GGA3	1	1	1	3
hsa-miR-3150b-3p	GFRAL	1	1	1	3
hsa-miR-363-3p	GFPT2	1	1	1	3
hsa-miR-1229-3p	GFPT1	1	1	1	3
hsa-miR-363-3p	GEMIN2	1	1	1	3
hsa-miR-4665-5p	GDI1	1	1	1	3
hsa-miR-1304-3p	GDE1	1	1	1	3
hsa-miR-3662	GDAP2	1	1	1	3
hsa-miR-6781-3p	GCNT1	1	1	1	3
hsa-miR-20b-5p	GBF1	1	1	1	3
hsa-miR-1266-5p	GBA2	1	1	1	3
hsa-miR-3934-3p	GBA2	1	1	1	3
hsa-miR-200c-3p	GATA4	1	1	1	3
hsa-miR-200b-3p	GATA4	1	1	1	3
hsa-miR-527	GAS7	1	1	1	3
hsa-miR-518a-5p	GAS7	1	1	1	3
hsa-miR-3614-5p	GAP43	1	1	1	3
hsa-miR-3662	GAN	1	1	1	3
hsa-miR-203b-3p	GAN	1	1	1	3
hsa-miR-363-3p	GALNT7	1	1	1	3
hsa-miR-122-5p	GALNT3	1	1	1	3
hsa-miR-7-5p	GALNT3	1	1	1	3
hsa-miR-636	GALNT1	1	1	1	3
hsa-miR-629-3p	GABARAPI	1	1	1	3
hsa-miR-3619-5p	GABARAP	1	1	1	3

hsa-miR-20b-5p	GAB1	1	1	1	3
hsa-miR-122-5p	G6PC3	1	1	1	3
hsa-miR-556-3p	G3BP2	1	1	1	3
hsa-miR-219a-2-3p	G3BP2	1	1	1	3
hsa-miR-888-5p	G3BP2	1	1	1	3
hsa-miR-577	G3BP1	1	1	1	3
hsa-miR-548d-3p	G2E3	1	1	1	3
hsa-miR-891b	FZD6	1	1	1	3
hsa-miR-130b-3p	FZD6	1	1	1	3
hsa-miR-301b-3p	FZD6	1	1	1	3
hsa-miR-527	FZD5	1	1	1	3
hsa-miR-3065-5p	FZD5	1	1	1	3
hsa-miR-216b-5p	FZD5	1	1	1	3
hsa-miR-518a-5p	FZD5	1	1	1	3
hsa-miR-31-5p	FZD3	1	1	1	3
hsa-miR-934	FZD2	1	1	1	3
hsa-miR-20b-5p	FYCO1	1	1	1	3
hsa-miR-3662	FXN	1	1	1	3
hsa-miR-122-5p	FUNDC2	1	1	1	3
hsa-miR-31-3p	FRS2	1	1	1	3
hsa-miR-96-5p	FRS2	1	1	1	3
hsa-miR-106a-5p	FRS2	1	1	1	3
hsa-miR-20b-5p	FRS2	1	1	1	3
hsa-miR-20b-5p	FRMD6	1	1	1	3
hsa-miR-6499-3p	FRK	1	1	1	3
hsa-miR-20b-5p	FOXQ1	1	1	1	3
hsa-miR-106a-5p	FOXQ1	1	1	1	3
hsa-miR-9-5p	FOXP1	1	1	1	3
hsa-miR-182-5p	FOXO3	1	1	1	3
hsa-miR-96-5p	FOXO1	1	1	1	3
hsa-miR-6715a-3p	FOXO1	1	1	1	3
hsa-miR-183-5p	FOXO1	1	1	1	3
hsa-miR-3614-5p	FOXN3	1	1	1	3
hsa-miR-183-5p	FOXN2	1	1	1	3
hsa-miR-4724-5p	FOXN2	1	1	1	3
hsa-miR-363-3p	FOXN2	1	1	1	3
hsa-miR-141-5p	FOXL2	1	1	1	3
hsa-miR-20b-5p	FOXJ3	1	1	1	3
hsa-miR-106a-5p	FOXJ3	1	1	1	3
hsa-miR-425-5p	FOXJ3	1	1	1	3
hsa-miR-20b-5p	FOXJ2	1	1	1	3
hsa-miR-106a-5p	FOXJ2	1	1	1	3
hsa-miR-182-5p	FOXF2	1	1	1	3
hsa-miR-31-5p	FOXD4L5	1	1	1	3
hsa-miR-31-5p	FOXD4L4	1	1	1	3
hsa-miR-31-5p	FOXD4L1	1	1	1	3
hsa-miR-31-5p	FOXD4	1	1	1	3
hsa-miR-211-5p	FOXC1	1	1	1	3
hsa-miR-200a-5p	FOXC1	1	1	1	3
hsa-miR-363-3p	FNIP1	1	1	1	3
hsa-miR-7-5p	FNDC4	1	1	1	3
hsa-miR-20b-5p	FNBP1L	1	1	1	3
hsa-miR-106a-5p	FNBP1L	1	1	1	3
hsa-miR-9-5p	FNBP1	1	1	1	3
hsa-miR-200b-3p	FN1	1	1	1	3
hsa-miR-200c-3p	FN1	1	1	1	3
hsa-miR-130b-3p	FMR1	1	1	1	3
hsa-miR-200b-3p	FLT1	1	1	1	3

hsa-miR-200c-3p	FLT1	1	1	1	3
hsa-miR-3619-5p	FLOT2	1	1	1	3
hsa-miR-182-5p	FLOT1	1	1	1	3
hsa-miR-6499-3p	FKBP5	1	1	1	3
hsa-miR-577	FKBP1A	1	1	1	3
hsa-miR-7974	FKBP15	1	1	1	3
hsa-miR-577	FKBP14	1	1	1	3
hsa-miR-20b-5p	FJX1	1	1	1	3
hsa-miR-106a-5p	FJX1	1	1	1	3
hsa-miR-548f-3p	FJX1	1	1	1	3
hsa-miR-210-3p	FGFRL1	1	1	1	3
hsa-miR-182-5p	FGF9	1	1	1	3
hsa-miR-526b-5p	FGD4	1	1	1	3
hsa-miR-138-5p	FERMT2	1	1	1	3
hsa-miR-522-3p	FEM1C	1	1	1	3
hsa-miR-512-3p	FEM1C	1	1	1	3
hsa-miR-20b-5p	FEM1C	1	1	1	3
hsa-miR-106a-5p	FEM1C	1	1	1	3
hsa-miR-3662	FEM1C	1	1	1	3
hsa-miR-20b-3p	FEM1C	1	1	1	3
hsa-miR-489-3p	FEM1B	1	1	1	3
hsa-miR-6499-3p	FEM1B	1	1	1	3
hsa-miR-20b-5p	FCHO2	1	1	1	3
hsa-miR-106a-5p	FCHO2	1	1	1	3
hsa-miR-1304-3p	FBXW8	1	1	1	3
hsa-miR-182-5p	FBXW7	1	1	1	3
hsa-miR-20b-5p	FBXO48	1	1	1	3
hsa-miR-20b-5p	FBXO31	1	1	1	3
hsa-miR-301b-3p	FBXO28	1	1	1	3
hsa-miR-9-3p	FBXO28	1	1	1	3
hsa-miR-130b-3p	FBXO28	1	1	1	3
hsa-miR-20b-5p	FBXO21	1	1	1	3
hsa-miR-106a-5p	FBXL5	1	1	1	3
hsa-miR-20b-5p	FBXL5	1	1	1	3
hsa-miR-767-3p	FBXL5	1	1	1	3
hsa-miR-18b-5p	FBXL3	1	1	1	3
hsa-miR-18a-5p	FBXL3	1	1	1	3
hsa-miR-9-5p	FBN2	1	1	1	3
hsa-miR-767-5p	FBN1	1	1	1	3
hsa-miR-548d-3p	FBLN2	1	1	1	3
hsa-miR-130b-3p	FAT3	1	1	1	3
hsa-miR-363-3p	FASLG	1	1	1	3
hsa-miR-3150b-3p	FAM53C	1	1	1	3
hsa-miR-548j-5p	FAM53C	1	1	1	3
hsa-miR-548y	FAM53C	1	1	1	3
hsa-miR-3619-5p	FAM49B	1	1	1	3
hsa-miR-20b-5p	FAM46C	1	1	1	3
hsa-miR-9-5p	FAM46A	1	1	1	3
hsa-miR-18b-5p	FAM3C	1	1	1	3
hsa-miR-18a-5p	FAM3C	1	1	1	3
hsa-miR-629-3p	FAM229B	1	1	1	3
hsa-miR-183-5p	FAM217B	1	1	1	3
hsa-miR-106a-5p	FAM210A	1	1	1	3
hsa-miR-20b-5p	FAM210A	1	1	1	3
hsa-miR-636	FAM198B	1	1	1	3
hsa-miR-629-3p	FAM175B	1	1	1	3
hsa-miR-183-5p	FAM175B	1	1	1	3
hsa-miR-1226-3p	FAM168B	1	1	1	3

hsa-miR-6891-5p	FAM168A	1	1	1	3
hsa-miR-548y	FAM135A	1	1	1	3
hsa-miR-548j-5p	FAM135A	1	1	1	3
hsa-miR-940	FAM131B	1	1	1	3
hsa-miR-106a-5p	FAM129A	1	1	1	3
hsa-miR-20b-5p	FAM129A	1	1	1	3
hsa-miR-106a-5p	FAM126B	1	1	1	3
hsa-miR-20b-5p	FAM126B	1	1	1	3
hsa-miR-7-5p	FAM126B	1	1	1	3
hsa-miR-122-5p	FAM117B	1	1	1	3
hsa-miR-489-3p	FAM117B	1	1	1	3
hsa-miR-20b-5p	FAM117B	1	1	1	3
hsa-miR-3664-3p	FAM109B	1	1	1	3
hsa-miR-636	FAM102B	1	1	1	3
hsa-miR-20b-5p	FAM102A	1	1	1	3
hsa-miR-106a-5p	F3	1	1	1	3
hsa-miR-20b-5p	F3	1	1	1	3
hsa-miR-18a-5p	F3	1	1	1	3
hsa-miR-18b-5p	F3	1	1	1	3
hsa-miR-512-3p	F2RL3	1	1	1	3
hsa-miR-205-5p	EZR	1	1	1	3
hsa-miR-183-5p	EZR	1	1	1	3
hsa-miR-138-5p	EZH2	1	1	1	3
hsa-miR-20b-5p	EZH1	1	1	1	3
hsa-miR-7-5p	EXOSC2	1	1	1	3
hsa-miR-363-3p	EXOC5	1	1	1	3
hsa-miR-6499-3p	EVI5L	1	1	1	3
hsa-miR-449b-5p	EVI5L	1	1	1	3
hsa-miR-449a	EVI5L	1	1	1	3
hsa-miR-182-5p	EVI5	1	1	1	3
hsa-miR-940	EVC	1	1	1	3
hsa-miR-3662	ETS2	1	1	1	3
hsa-miR-200b-3p	ETS1	1	1	1	3
hsa-miR-200c-3p	ETS1	1	1	1	3
hsa-miR-205-3p	ETNK1	1	1	1	3
hsa-miR-548y	ETNK1	1	1	1	3
hsa-miR-205-5p	ETNK1	1	1	1	3
hsa-miR-548j-5p	ETNK1	1	1	1	3
hsa-miR-205-5p	ESRRG	1	1	1	3
hsa-miR-512-3p	ESRP2	1	1	1	3
hsa-miR-18a-5p	ESR1	1	1	1	3
hsa-miR-301b-3p	ESR1	1	1	1	3
hsa-miR-130b-3p	ESR1	1	1	1	3
hsa-miR-18b-5p	ESR1	1	1	1	3
hsa-miR-200c-3p	ERRFI1	1	1	1	3
hsa-miR-892a	ERMP1	1	1	1	3
hsa-miR-200c-3p	ERMP1	1	1	1	3
hsa-miR-429	ERMP1	1	1	1	3
hsa-miR-7-5p	ERI2	1	1	1	3
hsa-miR-203b-3p	ERI2	1	1	1	3
hsa-miR-363-3p	ERGIC2	1	1	1	3
hsa-miR-6499-3p	ERGIC1	1	1	1	3
hsa-miR-3619-5p	ERC1	1	1	1	3
hsa-miR-592	ERBB3	1	1	1	3
hsa-miR-940	EPM2AIP1	1	1	1	3
hsa-miR-526b-5p	EPHB1	1	1	1	3
hsa-miR-141-3p	EPHA7	1	1	1	3
hsa-miR-200a-3p	EPHA7	1	1	1	3

hsa-miR-20b-5p	EPHA4	1	1	1	3
hsa-miR-106a-5p	EPHA4	1	1	1	3
hsa-miR-141-3p	EPHA2	1	1	1	3
hsa-miR-200a-3p	EPHA2	1	1	1	3
hsa-miR-3662	EPC2	1	1	1	3
hsa-miR-3662	EPB41L4B	1	1	1	3
hsa-miR-31-3p	EPB41L4B	1	1	1	3
hsa-miR-301b-3p	EOGT	1	1	1	3
hsa-miR-425-5p	EOGT	1	1	1	3
hsa-miR-20b-5p	ENPP5	1	1	1	3
hsa-miR-130b-3p	ENPP5	1	1	1	3
hsa-miR-301b-3p	ENPP5	1	1	1	3
hsa-miR-527	ENPP5	1	1	1	3
hsa-miR-518a-5p	ENPP5	1	1	1	3
hsa-miR-106a-5p	ENPP5	1	1	1	3
hsa-miR-130b-3p	ENPP4	1	1	1	3
hsa-miR-205-5p	ENPP4	1	1	1	3
hsa-miR-301b-3p	ENPP4	1	1	1	3
hsa-miR-767-5p	ENPP2	1	1	1	3
hsa-miR-6891-5p	EN2	1	1	1	3
hsa-miR-3664-3p	ELP3	1	1	1	3
hsa-miR-211-5p	ELOVL6	1	1	1	3
hsa-miR-3161	ELOVL5	1	1	1	3
hsa-miR-3934-5p	ELOVL1	1	1	1	3
hsa-miR-767-5p	ELMSAN1	1	1	1	3
hsa-miR-106a-5p	ELK4	1	1	1	3
hsa-miR-6715a-3p	ELK4	1	1	1	3
hsa-miR-20b-5p	ELK4	1	1	1	3
hsa-miR-141-3p	ELAVL4	1	1	1	3
hsa-miR-141-3p	ELAVL2	1	1	1	3
hsa-miR-20b-5p	ELAVL2	1	1	1	3
hsa-miR-200a-3p	ELAVL2	1	1	1	3
hsa-miR-106a-5p	ELAVL2	1	1	1	3
hsa-miR-200c-3p	ELAVL2	1	1	1	3
hsa-miR-522-3p	ELAVL1	1	1	1	3
hsa-miR-9-5p	ELAVL1	1	1	1	3
hsa-miR-20b-5p	EIF5A2	1	1	1	3
hsa-miR-7-5p	EIF5A2	1	1	1	3
hsa-miR-3662	EIF5A2	1	1	1	3
hsa-miR-106a-5p	EIF4H	1	1	1	3
hsa-miR-20b-5p	EIF4H	1	1	1	3
hsa-miR-1229-3p	EIF4G2	1	1	1	3
hsa-miR-106a-5p	EIF4G2	1	1	1	3
hsa-miR-96-5p	EIF4EBP2	1	1	1	3
hsa-miR-6891-5p	EIF4EBP1	1	1	1	3
hsa-miR-7-5p	EIF4E	1	1	1	3
hsa-miR-877-3p	EIF4A3	1	1	1	3
hsa-miR-7-5p	EIF2S3	1	1	1	3
hsa-miR-877-3p	EIF2B2	1	1	1	3
hsa-miR-877-5p	EIF1AX	1	1	1	3
hsa-miR-3065-5p	EIF1AX	1	1	1	3
hsa-miR-888-5p	EIF1AX	1	1	1	3
hsa-miR-138-5p	EID1	1	1	1	3
hsa-miR-20b-5p	EGLN3	1	1	1	3
hsa-miR-106a-5p	EGLN3	1	1	1	3
hsa-miR-130b-3p	EGLN3	1	1	1	3
hsa-miR-301b-3p	EGLN3	1	1	1	3
hsa-miR-7-5p	EGFR	1	1	1	3

hsa-miR-3189-3p	EFTUD2	1	1	1	3
hsa-miR-7702	EFNA3	1	1	1	3
hsa-miR-940	EFNA1	1	1	1	3
hsa-miR-200c-3p	EFNA1	1	1	1	3
hsa-miR-5001-3p	EFCAB14	1	1	1	3
hsa-miR-20b-5p	EFCAB14	1	1	1	3
hsa-miR-1301-3p	EFCAB14	1	1	1	3
hsa-miR-106a-5p	EFCAB14	1	1	1	3
hsa-miR-20b-5p	EEA1	1	1	1	3
hsa-miR-130b-3p	EDN1	1	1	1	3
hsa-miR-301b-3p	EDN1	1	1	1	3
hsa-miR-548d-3p	EDIL3	1	1	1	3
hsa-miR-9-5p	EDEM3	1	1	1	3
hsa-miR-6815-3p	EDEM3	1	1	1	3
hsa-miR-1304-3p	EDEM3	1	1	1	3
hsa-miR-1301-3p	EDEM1	1	1	1	3
hsa-miR-888-5p	EDEM1	1	1	1	3
hsa-miR-96-5p	EDEM1	1	1	1	3
hsa-miR-363-3p	EDEM1	1	1	1	3
hsa-miR-31-5p	ECHDC1	1	1	1	3
hsa-miR-6844	EBNA1BP2	1	1	1	3
hsa-miR-130b-5p	EBF4	1	1	1	3
hsa-miR-20b-5p	E2F5	1	1	1	3
hsa-miR-141-3p	E2F3	1	1	1	3
hsa-miR-20b-5p	E2F2	1	1	1	3
hsa-miR-3127-3p	E2F2	1	1	1	3
hsa-miR-106a-5p	E2F1	1	1	1	3
hsa-miR-20b-5p	E2F1	1	1	1	3
hsa-miR-6781-3p	DZIP1L	1	1	1	3
hsa-miR-215-5p	DYRK1A	1	1	1	3
hsa-miR-522-3p	DYRK1A	1	1	1	3
hsa-miR-205-3p	DYNLT1	1	1	1	3
hsa-miR-130b-3p	DYNLL2	1	1	1	3
hsa-miR-629-3p	DYNLL2	1	1	1	3
hsa-miR-106a-5p	DYNC1LI2	1	1	1	3
hsa-miR-548f-3p	DYNC1LI2	1	1	1	3
hsa-miR-301b-3p	DYNC1LI2	1	1	1	3
hsa-miR-183-3p	DYNC1LI2	1	1	1	3
hsa-miR-130b-3p	DYNC1LI2	1	1	1	3
hsa-miR-20b-5p	DYNC1LI2	1	1	1	3
hsa-miR-363-3p	DUSP5	1	1	1	3
hsa-miR-106a-5p	DUSP2	1	1	1	3
hsa-miR-20b-5p	DUSP2	1	1	1	3
hsa-miR-122-5p	DUSP2	1	1	1	3
hsa-miR-200c-3p	DUSP1	1	1	1	3
hsa-miR-7-5p	DTYMK	1	1	1	3
hsa-miR-940	DTX2	1	1	1	3
hsa-miR-1304-3p	DSG3	1	1	1	3
hsa-miR-3074-5p	DSE	1	1	1	3
hsa-miR-301b-3p	DPYSL2	1	1	1	3
hsa-miR-106a-5p	DPYSL2	1	1	1	3
hsa-miR-130b-3p	DPYSL2	1	1	1	3
hsa-miR-20b-5p	DPYSL2	1	1	1	3
hsa-miR-1283	DPY19L4	1	1	1	3
hsa-miR-141-3p	DPY19L1	1	1	1	3
hsa-miR-200a-3p	DPY19L1	1	1	1	3
hsa-miR-3662	DPY19L1	1	1	1	3
hsa-miR-1276	DPP6	1	1	1	3

hsa-miR-20b-3p	DONSON	1	1	1	3
hsa-miR-200b-3p	DNMT3A	1	1	1	3
hsa-miR-200c-3p	DNMT3A	1	1	1	3
hsa-miR-7-5p	DNAJC5	1	1	1	3
hsa-miR-20b-5p	DNAJC27	1	1	1	3
hsa-miR-577	DNAJB9	1	1	1	3
hsa-miR-106a-5p	DNAJB9	1	1	1	3
hsa-miR-363-3p	DNAJB9	1	1	1	3
hsa-miR-20b-5p	DNAJB9	1	1	1	3
hsa-miR-216b-5p	DNAJB9	1	1	1	3
hsa-miR-138-5p	DNAJB6	1	1	1	3
hsa-miR-429	DNAJB6	1	1	1	3
hsa-miR-200c-3p	DNAJB6	1	1	1	3
hsa-miR-18a-3p	DNA2	1	1	1	3
hsa-miR-205-5p	DMXL2	1	1	1	3
hsa-miR-138-5p	DMKN	1	1	1	3
hsa-miR-183-3p	DLX4	1	1	1	3
hsa-miR-4665-5p	DLGAP3	1	1	1	3
hsa-miR-301b-3p	DLG5	1	1	1	3
hsa-miR-130b-3p	DLG5	1	1	1	3
hsa-miR-449b-3p	DLG4	1	1	1	3
hsa-miR-200c-3p	DLC1	1	1	1	3
hsa-miR-877-3p	DLC1	1	1	1	3
hsa-miR-200a-3p	DLC1	1	1	1	3
hsa-miR-200b-3p	DLC1	1	1	1	3
hsa-miR-4665-5p	DIRAS2	1	1	1	3
hsa-miR-548f-3p	DIRAS2	1	1	1	3
hsa-miR-130b-5p	DIO2	1	1	1	3
hsa-miR-425-5p	DICER1	1	1	1	3
hsa-miR-301b-3p	DICER1	1	1	1	3
hsa-miR-130b-3p	DICER1	1	1	1	3
hsa-miR-215-5p	DICER1	1	1	1	3
hsa-miR-18a-5p	DICER1	1	1	1	3
hsa-miR-9-5p	DICER1	1	1	1	3
hsa-miR-5001-3p	DFFA	1	1	1	3
hsa-miR-301b-3p	DEPDC1	1	1	1	3
hsa-miR-4763-5p	DEPDC1	1	1	1	3
hsa-miR-130b-3p	DEPDC1	1	1	1	3
hsa-miR-3187-3p	DENR	1	1	1	3
hsa-miR-210-3p	DENND6A	1	1	1	3
hsa-miR-200b-3p	DENND5B	1	1	1	3
hsa-miR-429	DENND5B	1	1	1	3
hsa-miR-20b-5p	DENND5B	1	1	1	3
hsa-miR-200c-3p	DENND5B	1	1	1	3
hsa-miR-1248	DDX6	1	1	1	3
hsa-miR-130b-3p	DDX6	1	1	1	3
hsa-miR-215-5p	DDX50	1	1	1	3
hsa-miR-1276	DDX5	1	1	1	3
hsa-miR-205-5p	DDX5	1	1	1	3
hsa-miR-20b-5p	DDX5	1	1	1	3
hsa-miR-363-3p	DDX3X	1	1	1	3
hsa-miR-548f-3p	DDX3X	1	1	1	3
hsa-miR-548f-3p	DDX21	1	1	1	3
hsa-miR-6891-5p	DDX11	1	1	1	3
hsa-miR-1266-5p	DDN	1	1	1	3
hsa-miR-3934-3p	DDN	1	1	1	3
hsa-miR-3616-5p	DDN	1	1	1	3
hsa-miR-548j-5p	DDIT4	1	1	1	3

hsa-miR-548y	DDIT4	1	1	1	3
hsa-miR-96-5p	DDIT3	1	1	1	3
hsa-miR-20b-5p	DDHD1	1	1	1	3
hsa-miR-96-5p	DDAH1	1	1	1	3
hsa-miR-4665-5p	DDA1	1	1	1	3
hsa-miR-940	DDA1	1	1	1	3
hsa-miR-548d-3p	DCUN1D3	1	1	1	3
hsa-miR-3664-5p	DCTN4	1	1	1	3
hsa-miR-3614-5p	DCPS	1	1	1	3
hsa-miR-3662	DCK	1	1	1	3
hsa-miR-3074-5p	DCK	1	1	1	3
hsa-miR-105-5p	DCC	1	1	1	3
hsa-miR-106a-5p	DCBLD2	1	1	1	3
hsa-miR-6728-5p	DCAF8	1	1	1	3
hsa-miR-93-3p	DCAF8	1	1	1	3
hsa-miR-512-3p	DAZAP2	1	1	1	3
hsa-miR-183-5p	DAP	1	1	1	3
hsa-miR-18a-5p	DAAM2	1	1	1	3
hsa-miR-130b-5p	CYYR1	1	1	1	3
hsa-miR-940	CYP8B1	1	1	1	3
hsa-miR-940	CYP4A11	1	1	1	3
hsa-miR-182-5p	CYLD	1	1	1	3
hsa-miR-7705	CYGB	1	1	1	3
hsa-miR-556-5p	CYBRD1	1	1	1	3
hsa-miR-20b-5p	CYBRD1	1	1	1	3
hsa-miR-767-3p	CYB5R3	1	1	1	3
hsa-miR-3074-5p	CXCR5	1	1	1	3
hsa-miR-9-5p	CXCR4	1	1	1	3
hsa-miR-130b-3p	CUL3	1	1	1	3
hsa-miR-301b-3p	CUL3	1	1	1	3
hsa-miR-130b-5p	CUBN	1	1	1	3
hsa-miR-93-3p	CTTNBP2N	1	1	1	3
hsa-miR-215-5p	CTNNBIP1	1	1	1	3
hsa-miR-183-3p	CTNNB1	1	1	1	3
hsa-miR-18a-3p	CTIF	1	1	1	3
hsa-miR-449a	CTIF	1	1	1	3
hsa-miR-18a-5p	CTGF	1	1	1	3
hsa-miR-18b-5p	CTGF	1	1	1	3
hsa-miR-18b-3p	CTDSPL2	1	1	1	3
hsa-miR-18a-5p	CTDSPL	1	1	1	3
hsa-miR-183-5p	CTDSPL	1	1	1	3
hsa-miR-4724-5p	CTBP2	1	1	1	3
hsa-miR-138-5p	CSRP2	1	1	1	3
hsa-miR-130b-3p	CSNK1G1	1	1	1	3
hsa-miR-130b-3p	CSF1	1	1	1	3
hsa-miR-7705	CSDE1	1	1	1	3
hsa-miR-3619-5p	CS	1	1	1	3
hsa-miR-940	CS	1	1	1	3
hsa-miR-20b-5p	CRY2	1	1	1	3
hsa-miR-130b-5p	CRY2	1	1	1	3
hsa-miR-7-5p	CRTAP	1	1	1	3
hsa-miR-3934-5p	CRTAP	1	1	1	3
hsa-miR-7-5p	CRLS1	1	1	1	3
hsa-miR-3619-5p	CRKL	1	1	1	3
hsa-miR-106a-5p	CRK	1	1	1	3
hsa-miR-31-3p	CRK	1	1	1	3
hsa-miR-20b-5p	CRK	1	1	1	3
hsa-miR-18b-5p	CRIM1	1	1	1	3

hsa-miR-18a-5p	CRIM1	1	1	1	3
hsa-miR-20b-5p	CRIM1	1	1	1	3
hsa-miR-425-5p	CREBZF	1	1	1	3
hsa-miR-155-3p	CREBRF	1	1	1	3
hsa-miR-449b-3p	CREBRF	1	1	1	3
hsa-miR-18b-5p	CREBL2	1	1	1	3
hsa-miR-18a-5p	CREBL2	1	1	1	3
hsa-miR-211-5p	CREB5	1	1	1	3
hsa-miR-6854-5p	CREB3L2	1	1	1	3
hsa-miR-20b-5p	CREB1	1	1	1	3
hsa-miR-526b-5p	CREB1	1	1	1	3
hsa-miR-106a-5p	CREB1	1	1	1	3
hsa-miR-1283	CPSF6	1	1	1	3
hsa-miR-18a-3p	CPS1	1	1	1	3
hsa-miR-940	CPNE5	1	1	1	3
hsa-miR-363-3p	CPEB3	1	1	1	3
hsa-miR-1248	CPEB2	1	1	1	3
hsa-miR-182-3p	CPA4	1	1	1	3
hsa-miR-363-3p	COX20	1	1	1	3
hsa-miR-105-5p	COPS8	1	1	1	3
hsa-miR-7-5p	COMMD7	1	1	1	3
hsa-miR-548j-5p	COMMD3-	1	1	1	3
hsa-miR-548y	COMMD3-	1	1	1	3
hsa-miR-7-5p	COLEC12	1	1	1	3
hsa-miR-767-5p	COL5A2	1	1	1	3
hsa-miR-216b-5p	COL4A4	1	1	1	3
hsa-miR-767-5p	COL4A1	1	1	1	3
hsa-miR-767-5p	COL3A1	1	1	1	3
hsa-miR-767-5p	COL10A1	1	1	1	3
hsa-miR-7-5p	CNOT8	1	1	1	3
hsa-miR-20b-5p	CNOT7	1	1	1	3
hsa-miR-483-3p	CNOT6L	1	1	1	3
hsa-miR-3187-3p	CNOT6L	1	1	1	3
hsa-miR-20b-5p	CNOT6L	1	1	1	3
hsa-miR-106a-5p	CNOT6L	1	1	1	3
hsa-miR-449a	CNOT4	1	1	1	3
hsa-miR-363-5p	CNNM4	1	1	1	3
hsa-miR-363-3p	CNNM4	1	1	1	3
hsa-miR-7-5p	CNNM4	1	1	1	3
hsa-miR-96-5p	CNNM3	1	1	1	3
hsa-miR-7-5p	CNN3	1	1	1	3
hsa-miR-363-3p	CNIH1	1	1	1	3
hsa-miR-363-3p	CNEP1R1	1	1	1	3
hsa-miR-1304-3p	CNBP	1	1	1	3
hsa-miR-548d-3p	CMTM6	1	1	1	3
hsa-miR-489-3p	CMTM6	1	1	1	3
hsa-miR-1283	CMTM4	1	1	1	3
hsa-miR-512-3p	CMPK1	1	1	1	3
hsa-miR-20b-5p	CMPK1	1	1	1	3
hsa-miR-182-5p	CLOCK	1	1	1	3
hsa-miR-141-3p	CLOCK	1	1	1	3
hsa-miR-548f-3p	CLOCK	1	1	1	3
hsa-miR-20b-5p	CLOCK	1	1	1	3
hsa-miR-106a-5p	CLIP4	1	1	1	3
hsa-miR-96-3p	CLIP4	1	1	1	3
hsa-miR-20b-5p	CLIP4	1	1	1	3
hsa-miR-577	CLIP4	1	1	1	3
hsa-miR-4665-5p	CLIP2	1	1	1	3

hsa-miR-301b-3p	CLIP1	1	1	1	3
hsa-miR-130b-3p	CLIP1	1	1	1	3
hsa-miR-6777-5p	CLIP1	1	1	1	3
hsa-miR-449a	CLIC5	1	1	1	3
hsa-miR-577	CLIC4	1	1	1	3
hsa-miR-122-5p	CLIC4	1	1	1	3
hsa-miR-1910-5p	CLIC4	1	1	1	3
hsa-miR-577	CLEC12B	1	1	1	3
hsa-miR-548j-5p	CLDN12	1	1	1	3
hsa-miR-548y	CLDN12	1	1	1	3
hsa-miR-130b-3p	CLCN3	1	1	1	3
hsa-miR-183-3p	CLCN3	1	1	1	3
hsa-miR-301b-3p	CLCN3	1	1	1	3
hsa-miR-548d-3p	CLASP1	1	1	1	3
hsa-miR-7-5p	CKAP4	1	1	1	3
hsa-miR-4665-5p	CITED4	1	1	1	3
hsa-miR-182-5p	CITED2	1	1	1	3
hsa-miR-20b-5p	CIT	1	1	1	3
hsa-miR-363-3p	CIC	1	1	1	3
hsa-miR-6815-3p	CIC	1	1	1	3
hsa-miR-3176	CHTF8	1	1	1	3
hsa-miR-888-5p	CHST2	1	1	1	3
hsa-miR-345-5p	CHST2	1	1	1	3
hsa-miR-6891-5p	CHRDL1	1	1	1	3
hsa-miR-211-5p	CHRDL1	1	1	1	3
hsa-miR-211-5p	CHORDC1	1	1	1	3
hsa-miR-1301-3p	CHN1	1	1	1	3
hsa-miR-31-3p	CHMP4B	1	1	1	3
hsa-miR-3662	CHMP3	1	1	1	3
hsa-miR-182-5p	CHL1	1	1	1	3
hsa-miR-130b-3p	CHIC1	1	1	1	3
hsa-miR-20b-5p	CHIC1	1	1	1	3
hsa-miR-301b-3p	CHIC1	1	1	1	3
hsa-miR-20b-5p	CHD9	1	1	1	3
hsa-miR-6891-5p	CHD4	1	1	1	3
hsa-miR-3065-5p	CHD4	1	1	1	3
hsa-miR-1226-3p	CHD3	1	1	1	3
hsa-miR-7-5p	CHAMP1	1	1	1	3
hsa-miR-20b-5p	CHAF1A	1	1	1	3
hsa-miR-940	CHAC1	1	1	1	3
hsa-miR-130b-5p	CGNL1	1	1	1	3
hsa-miR-106a-5p	CFL2	1	1	1	3
hsa-miR-200c-3p	CFL2	1	1	1	3
hsa-miR-940	CFL2	1	1	1	3
hsa-miR-130b-3p	CFL2	1	1	1	3
hsa-miR-301b-3p	CFL2	1	1	1	3
hsa-miR-20b-5p	CFL2	1	1	1	3
hsa-miR-3664-5p	CFHR5	1	1	1	3
hsa-miR-449b-3p	CERK	1	1	1	3
hsa-miR-106a-5p	CERCAM	1	1	1	3
hsa-miR-20b-5p	CERCAM	1	1	1	3
hsa-miR-20b-5p	CEP97	1	1	1	3
hsa-miR-106a-5p	CEP97	1	1	1	3
hsa-miR-20b-5p	CEP57	1	1	1	3
hsa-miR-130b-3p	CEP55	1	1	1	3
hsa-miR-301b-3p	CEP55	1	1	1	3
hsa-miR-518a-5p	CEP350	1	1	1	3
hsa-miR-527	CEP350	1	1	1	3

hsa-miR-130b-3p	CEP170	1	1	1	3
hsa-miR-106a-5p	CEP170	1	1	1	3
hsa-miR-3662	CEP170	1	1	1	3
hsa-miR-20b-5p	CEP170	1	1	1	3
hsa-miR-301b-3p	CEP170	1	1	1	3
hsa-miR-548j-5p	CEP120	1	1	1	3
hsa-miR-548y	CEP120	1	1	1	3
hsa-miR-106a-5p	CENPQ	1	1	1	3
hsa-miR-20b-5p	CENPQ	1	1	1	3
hsa-miR-3662	CENPK	1	1	1	3
hsa-miR-548y	CELSR3	1	1	1	3
hsa-miR-548j-5p	CELSR3	1	1	1	3
hsa-miR-3150b-3p	CELSR2	1	1	1	3
hsa-miR-548d-3p	CELF1	1	1	1	3
hsa-miR-877-5p	CELF1	1	1	1	3
hsa-miR-429	CELF1	1	1	1	3
hsa-miR-200c-3p	CELF1	1	1	1	3
hsa-miR-3662	CELF1	1	1	1	3
hsa-miR-3127-3p	CELF1	1	1	1	3
hsa-miR-200b-3p	CELF1	1	1	1	3
hsa-miR-3176	CELF1	1	1	1	3
hsa-miR-3150b-3p	CELF1	1	1	1	3
hsa-miR-183-5p	CELF1	1	1	1	3
hsa-miR-512-3p	CEBPG	1	1	1	3
hsa-miR-3614-3p	CDON	1	1	1	3
hsa-miR-345-5p	CDKN1A	1	1	1	3
hsa-miR-20b-5p	CDKN1A	1	1	1	3
hsa-miR-106a-5p	CDKN1A	1	1	1	3
hsa-miR-449c-5p	CDK6	1	1	1	3
hsa-miR-449b-5p	CDK6	1	1	1	3
hsa-miR-183-3p	CDK6	1	1	1	3
hsa-miR-449a	CDK6	1	1	1	3
hsa-miR-548d-3p	CDK5R1	1	1	1	3
hsa-miR-106a-3p	CDK19	1	1	1	3
hsa-miR-130b-3p	CDK19	1	1	1	3
hsa-miR-18a-5p	CDK19	1	1	1	3
hsa-miR-301b-3p	CDK19	1	1	1	3
hsa-miR-130b-5p	CDK12	1	1	1	3
hsa-miR-200c-3p	CDH11	1	1	1	3
hsa-miR-548f-3p	CDCA4	1	1	1	3
hsa-miR-3651	CDC5L	1	1	1	3
hsa-miR-3619-5p	CDC42SE1	1	1	1	3
hsa-miR-548d-3p	CDC37L1	1	1	1	3
hsa-miR-301b-3p	CDADC1	1	1	1	3
hsa-miR-130b-3p	CDADC1	1	1	1	3
hsa-miR-940	CD3EAP	1	1	1	3
hsa-miR-522-3p	CCSER2	1	1	1	3
hsa-miR-3662	CCSER2	1	1	1	3
hsa-miR-20b-5p	CCSER2	1	1	1	3
hsa-miR-363-3p	CCSER2	1	1	1	3
hsa-miR-200c-3p	CCNT2	1	1	1	3
hsa-miR-7-5p	CCNT2	1	1	1	3
hsa-miR-429	CCNT2	1	1	1	3
hsa-miR-200b-3p	CCNT2	1	1	1	3
hsa-miR-31-5p	CCNT1	1	1	1	3
hsa-miR-9-5p	CCNG1	1	1	1	3
hsa-miR-122-5p	CCNG1	1	1	1	3
hsa-miR-96-5p	CCNG1	1	1	1	3

hsa-miR-200c-3p	CCNE2	1	1	1	3
hsa-miR-200a-3p	CCNE2	1	1	1	3
hsa-miR-6499-3p	CCNE2	1	1	1	3
hsa-miR-577	CCNE2	1	1	1	3
hsa-miR-449a	CCNE2	1	1	1	3
hsa-miR-449b-5p	CCNE2	1	1	1	3
hsa-miR-9-5p	CCNDBP1	1	1	1	3
hsa-miR-1248	CCND2	1	1	1	3
hsa-miR-106a-5p	CCND1	1	1	1	3
hsa-miR-20b-5p	CCND1	1	1	1	3
hsa-miR-548j-5p	CCNB1	1	1	1	3
hsa-miR-183-5p	CCNB1	1	1	1	3
hsa-miR-548y	CCNB1	1	1	1	3
hsa-miR-449a	CCL22	1	1	1	3
hsa-miR-20b-5p	CCL1	1	1	1	3
hsa-miR-141-3p	CCDC71L	1	1	1	3
hsa-miR-106a-5p	CCDC71L	1	1	1	3
hsa-miR-20b-5p	CCDC71L	1	1	1	3
hsa-miR-200a-3p	CCDC71L	1	1	1	3
hsa-miR-216b-5p	CCDC65	1	1	1	3
hsa-miR-512-3p	CCDC6	1	1	1	3
hsa-miR-122-5p	CCDC43	1	1	1	3
hsa-miR-215-5p	CCDC121	1	1	1	3
hsa-miR-940	CCDC117	1	1	1	3
hsa-miR-363-3p	CCDC113	1	1	1	3
hsa-miR-3616-3p	CBX5	1	1	1	3
hsa-miR-512-3p	CBX5	1	1	1	3
hsa-miR-548j-5p	CBX3	1	1	1	3
hsa-miR-449a	CBX3	1	1	1	3
hsa-miR-548y	CBX3	1	1	1	3
hsa-miR-130b-3p	CBFB	1	1	1	3
hsa-miR-429	CASP2	1	1	1	3
hsa-miR-200c-3p	CASP2	1	1	1	3
hsa-miR-96-5p	CASP2	1	1	1	3
hsa-miR-6777-5p	CASKIN1	1	1	1	3
hsa-miR-3150b-3p	CASKIN1	1	1	1	3
hsa-miR-1266-5p	CAPZB	1	1	1	3
hsa-miR-1304-3p	CAPZA2	1	1	1	3
hsa-miR-7-5p	CAPZA1	1	1	1	3
hsa-miR-9-5p	CAPZA1	1	1	1	3
hsa-miR-106a-5p	CAPRIN2	1	1	1	3
hsa-miR-130b-3p	CAPRIN2	1	1	1	3
hsa-miR-301b-3p	CAPRIN2	1	1	1	3
hsa-miR-20b-5p	CAPRIN2	1	1	1	3
hsa-miR-211-5p	CAPRIN1	1	1	1	3
hsa-miR-106a-5p	CAPN15	1	1	1	3
hsa-miR-20b-5p	CAPN15	1	1	1	3
hsa-miR-1283	CANX	1	1	1	3
hsa-miR-940	CAMSAP2	1	1	1	3
hsa-miR-3616-5p	CAMSAP2	1	1	1	3
hsa-miR-200c-3p	CAMSAP2	1	1	1	3
hsa-miR-130b-3p	CAMSAP2	1	1	1	3
hsa-miR-429	CAMSAP2	1	1	1	3
hsa-miR-200b-3p	CAMSAP2	1	1	1	3
hsa-miR-301b-3p	CAMSAP2	1	1	1	3
hsa-miR-18a-3p	CAMKV	1	1	1	3
hsa-miR-7-5p	CALU	1	1	1	3
hsa-miR-3662	CALR	1	1	1	3

hsa-miR-7-5p	CALM3	1	1	1	3
hsa-miR-891b	CALM2	1	1	1	3
hsa-miR-548f-3p	CALM1	1	1	1	3
hsa-miR-106a-5p	CADM2	1	1	1	3
hsa-miR-20b-5p	CADM2	1	1	1	3
hsa-miR-7-5p	CACNG7	1	1	1	3
hsa-miR-203b-3p	CACNB2	1	1	1	3
hsa-miR-4664-5p	CABP4	1	1	1	3
hsa-miR-7974	CABP4	1	1	1	3
hsa-miR-548d-3p	CABLES1	1	1	1	3
hsa-miR-200b-3p	CAB39	1	1	1	3
hsa-miR-429	CAB39	1	1	1	3
hsa-miR-200c-3p	CAB39	1	1	1	3
hsa-miR-20b-5p	C7orf43	1	1	1	3
hsa-miR-15b-3p	C5orf22	1	1	1	3
hsa-miR-7-5p	C5orf22	1	1	1	3
hsa-miR-891b	C4orf32	1	1	1	3
hsa-miR-526b-5p	C1orf52	1	1	1	3
hsa-miR-3664-3p	C1orf210	1	1	1	3
hsa-miR-7-5p	C1orf21	1	1	1	3
hsa-miR-130b-5p	C1GALT1	1	1	1	3
hsa-miR-31-5p	C19orf12	1	1	1	3
hsa-miR-512-3p	C18orf32	1	1	1	3
hsa-miR-548d-3p	C18orf25	1	1	1	3
hsa-miR-3619-5p	C17orf49	1	1	1	3
hsa-miR-636	C17orf102	1	1	1	3
hsa-miR-130b-3p	C16orf70	1	1	1	3
hsa-miR-7705	C15orf59	1	1	1	3
hsa-miR-20b-5p	C14orf28	1	1	1	3
hsa-miR-877-5p	C12orf4	1	1	1	3
hsa-miR-216b-5p	C11orf57	1	1	1	3
hsa-miR-512-3p	C11orf54	1	1	1	3
hsa-miR-363-3p	C11orf24	1	1	1	3
hsa-miR-3619-5p	C10orf76	1	1	1	3
hsa-miR-3662	BZW1	1	1	1	3
hsa-miR-449c-5p	BTRC	1	1	1	3
hsa-miR-130b-5p	BTN3A2	1	1	1	3
hsa-miR-20b-5p	BTG3	1	1	1	3
hsa-miR-106a-5p	BTG3	1	1	1	3
hsa-miR-6891-5p	BTG2	1	1	1	3
hsa-miR-210-5p	BTG2	1	1	1	3
hsa-miR-363-3p	BTG2	1	1	1	3
hsa-miR-203a-5p	BTG2	1	1	1	3
hsa-miR-449c-5p	BTG2	1	1	1	3
hsa-miR-3150b-3p	BTG2	1	1	1	3
hsa-miR-3934-3p	BTG2	1	1	1	3
hsa-miR-130b-3p	BTG1	1	1	1	3
hsa-miR-301b-3p	BTG1	1	1	1	3
hsa-miR-877-5p	BTF3L4	1	1	1	3
hsa-miR-3923	BTF3L4	1	1	1	3
hsa-miR-301b-3p	BTF3L4	1	1	1	3
hsa-miR-130b-3p	BTF3L4	1	1	1	3
hsa-miR-20b-5p	BTBD7	1	1	1	3
hsa-miR-548d-3p	BTBD3	1	1	1	3
hsa-miR-3662	BTBD3	1	1	1	3
hsa-miR-301b-3p	BTBD3	1	1	1	3
hsa-miR-130b-3p	BTBD3	1	1	1	3
hsa-miR-3616-5p	BTBD1	1	1	1	3

hsa-miR-6891-5p	BSDC1	1	1	1	3
hsa-miR-301b-3p	BRWD1	1	1	1	3
hsa-miR-130b-3p	BRWD1	1	1	1	3
hsa-miR-1283	BRWD1	1	1	1	3
hsa-miR-182-5p	BRWD1	1	1	1	3
hsa-miR-6715a-3p	BRPF1	1	1	1	3
hsa-miR-122-5p	BROX	1	1	1	3
hsa-miR-20b-5p	BRMS1L	1	1	1	3
hsa-miR-548y	BRIX1	1	1	1	3
hsa-miR-548j-5p	BRIX1	1	1	1	3
hsa-miR-200a-3p	BRD3	1	1	1	3
hsa-miR-141-3p	BRD3	1	1	1	3
hsa-miR-106a-5p	BNIP2	1	1	1	3
hsa-miR-20b-5p	BNIP2	1	1	1	3
hsa-miR-3074-5p	BNC2	1	1	1	3
hsa-miR-20b-5p	BMPR2	1	1	1	3
hsa-miR-449a	BMP3	1	1	1	3
hsa-miR-449b-5p	BMP3	1	1	1	3
hsa-miR-548y	BMI1	1	1	1	3
hsa-miR-548j-5p	BMI1	1	1	1	3
hsa-miR-301b-3p	BLCAP	1	1	1	3
hsa-miR-130b-3p	BLCAP	1	1	1	3
hsa-miR-3662	BLCAP	1	1	1	3
hsa-miR-106a-5p	BICD2	1	1	1	3
hsa-miR-141-3p	BICD2	1	1	1	3
hsa-miR-200a-3p	BICD2	1	1	1	3
hsa-miR-20b-5p	BICD2	1	1	1	3
hsa-miR-6499-3p	BHLHB9	1	1	1	3
hsa-miR-425-5p	BHLHB9	1	1	1	3
hsa-miR-425-5p	BEX4	1	1	1	3
hsa-miR-182-5p	BDNF	1	1	1	3
hsa-miR-425-5p	BCOR	1	1	1	3
hsa-miR-449a	BCL2L13	1	1	1	3
hsa-miR-449b-5p	BCL2L13	1	1	1	3
hsa-miR-3616-3p	BCL2L12	1	1	1	3
hsa-miR-363-3p	BCL2L11	1	1	1	3
hsa-miR-211-5p	BCL2	1	1	1	3
hsa-miR-527	BCL11B	1	1	1	3
hsa-miR-363-3p	BCL11B	1	1	1	3
hsa-miR-518a-5p	BCL11B	1	1	1	3
hsa-miR-7-5p	BCAT1	1	1	1	3
hsa-miR-106a-5p	BBX	1	1	1	3
hsa-miR-20b-5p	BBX	1	1	1	3
hsa-miR-548y	BBS10	1	1	1	3
hsa-miR-548j-5p	BBS10	1	1	1	3
hsa-miR-363-3p	BAZ2B	1	1	1	3
hsa-miR-940	BAZ2A	1	1	1	3
hsa-miR-449b-5p	BAZ2A	1	1	1	3
hsa-miR-449a	BAZ2A	1	1	1	3
hsa-miR-3189-3p	BASP1	1	1	1	3
hsa-miR-3150b-3p	BASP1	1	1	1	3
hsa-miR-141-3p	BAP1	1	1	1	3
hsa-miR-200a-3p	BAP1	1	1	1	3
hsa-miR-200b-3p	BAP1	1	1	1	3
hsa-miR-429	BAP1	1	1	1	3
hsa-miR-200c-3p	BAP1	1	1	1	3
hsa-miR-20b-5p	BAMBI	1	1	1	3
hsa-miR-363-3p	BAK1	1	1	1	3

hsa-miR-130b-3p	BAHD1	1	1	1	3
hsa-miR-3065-5p	BAHD1	1	1	1	3
hsa-miR-31-3p	BACH1	1	1	1	3
hsa-miR-96-3p	BACH1	1	1	1	3
hsa-miR-205-5p	B4GALT6	1	1	1	3
hsa-miR-6891-5p	B4GALT1	1	1	1	3
hsa-miR-3616-3p	AURKA	1	1	1	3
hsa-miR-9-5p	AUH	1	1	1	3
hsa-miR-1266-5p	ATXN7L3B	1	1	1	3
hsa-miR-3616-3p	ATXN7L3B	1	1	1	3
hsa-miR-1226-3p	ATXN7L3B	1	1	1	3
hsa-miR-155-3p	ATXN3	1	1	1	3
hsa-miR-141-5p	ATXN2L	1	1	1	3
hsa-miR-449a	ATXN1L	1	1	1	3
hsa-miR-940	ATXN1	1	1	1	3
hsa-miR-200c-3p	ATRX	1	1	1	3
hsa-miR-577	ATRNL1	1	1	1	3
hsa-miR-548d-3p	ATRNL1	1	1	1	3
hsa-miR-425-5p	ATP5G3	1	1	1	3
hsa-miR-1226-3p	ATP2A2	1	1	1	3
hsa-miR-4724-5p	ATP1B3	1	1	1	3
hsa-miR-18a-5p	ATM	1	1	1	3
hsa-miR-18b-5p	ATM	1	1	1	3
hsa-miR-106a-5p	ATL3	1	1	1	3
hsa-miR-20b-5p	ATL3	1	1	1	3
hsa-miR-1248	ATG9A	1	1	1	3
hsa-miR-20b-5p	ATG16L1	1	1	1	3
hsa-miR-20b-5p	ATG14	1	1	1	3
hsa-miR-548d-3p	ATF7IP	1	1	1	3
hsa-miR-4763-5p	ATCAY	1	1	1	3
hsa-miR-20b-5p	ATAD2	1	1	1	3
hsa-miR-106a-5p	ATAD2	1	1	1	3
hsa-miR-7-5p	ASXL1	1	1	1	3
hsa-miR-96-5p	ASH1L	1	1	1	3
hsa-miR-940	ASB6	1	1	1	3
hsa-miR-138-1-3p	AS3MT	1	1	1	3
hsa-miR-940	ARSA	1	1	1	3
hsa-miR-205-3p	ARPP19	1	1	1	3
hsa-miR-6844	ARNTL	1	1	1	3
hsa-miR-363-5p	ARMCX6	1	1	1	3
hsa-miR-7-5p	ARMC10	1	1	1	3
hsa-miR-3662	ARL8A	1	1	1	3
hsa-miR-216b-5p	ARL6IP1	1	1	1	3
hsa-miR-130b-3p	ARL6IP1	1	1	1	3
hsa-miR-512-3p	ARL5B	1	1	1	3
hsa-miR-449c-5p	ARL5B	1	1	1	3
hsa-miR-6715a-3p	ARL4C	1	1	1	3
hsa-miR-215-5p	ARL2BP	1	1	1	3
hsa-miR-548y	ARL13B	1	1	1	3
hsa-miR-548j-5p	ARL13B	1	1	1	3
hsa-miR-425-5p	ARIH1	1	1	1	3
hsa-miR-767-3p	ARID5B	1	1	1	3
hsa-miR-182-3p	ARID5B	1	1	1	3
hsa-miR-20b-5p	ARID4B	1	1	1	3
hsa-miR-106a-5p	ARID4B	1	1	1	3
hsa-miR-130b-3p	ARID4B	1	1	1	3
hsa-miR-363-3p	ARID1B	1	1	1	3
hsa-miR-3150b-3p	ARID1A	1	1	1	3

hsa-miR-6891-5p	ARID1A	1	1	1	3
hsa-miR-1266-5p	ARID1A	1	1	1	3
hsa-miR-31-5p	ARID1A	1	1	1	3
hsa-miR-548d-3p	ARID1A	1	1	1	3
hsa-miR-18a-3p	ARHGEF7	1	1	1	3
hsa-miR-155-3p	ARHGEF33	1	1	1	3
hsa-miR-138-5p	ARHGEF3	1	1	1	3
hsa-miR-130b-3p	ARHGEF26	1	1	1	3
hsa-miR-301b-3p	ARHGEF26	1	1	1	3
hsa-miR-138-5p	ARHGAP42	1	1	1	3
hsa-miR-3131	ARHGAP39	1	1	1	3
hsa-miR-20b-5p	ARHGAP35	1	1	1	3
hsa-miR-183-5p	ARHGAP21	1	1	1	3
hsa-miR-3662	ARHGAP15	1	1	1	3
hsa-miR-130b-3p	ARHGAP12	1	1	1	3
hsa-miR-301b-3p	ARHGAP12	1	1	1	3
hsa-miR-106a-5p	ARHGAP12	1	1	1	3
hsa-miR-20b-5p	ARHGAP12	1	1	1	3
hsa-miR-3065-5p	ARHGAP12	1	1	1	3
hsa-miR-20b-5p	ARHGAP1	1	1	1	3
hsa-miR-130b-3p	ARHGAP1	1	1	1	3
hsa-miR-449a	ARHGAP1	1	1	1	3
hsa-miR-449c-5p	ARHGAP1	1	1	1	3
hsa-miR-940	ARHGAP1	1	1	1	3
hsa-miR-449b-5p	ARHGAP1	1	1	1	3
hsa-miR-301b-3p	ARHGAP1	1	1	1	3
hsa-miR-106a-5p	ARHGAP1	1	1	1	3
hsa-miR-215-5p	ARFGEF1	1	1	1	3
hsa-miR-183-5p	ARFGAP2	1	1	1	3
hsa-miR-7-5p	ARF4	1	1	1	3
hsa-miR-31-5p	ARF1	1	1	1	3
hsa-miR-3616-3p	ARF1	1	1	1	3
hsa-miR-135b-5p	ARC	1	1	1	3
hsa-miR-767-3p	ARAP2	1	1	1	3
hsa-miR-20b-5p	ARAP2	1	1	1	3
hsa-miR-211-5p	ARAP2	1	1	1	3
hsa-miR-548j-5p	AQP3	1	1	1	3
hsa-miR-548y	AQP3	1	1	1	3
hsa-miR-96-5p	APPL1	1	1	1	3
hsa-miR-629-3p	APLN	1	1	1	3
hsa-miR-135b-5p	APC	1	1	1	3
hsa-miR-526b-5p	APBB2	1	1	1	3
hsa-miR-940	APAF1	1	1	1	3
hsa-miR-9-5p	AP3B1	1	1	1	3
hsa-miR-211-5p	AP1S2	1	1	1	3
hsa-miR-6781-3p	ANXA5	1	1	1	3
hsa-miR-363-3p	ANP32E	1	1	1	3
hsa-miR-3161	ANP32E	1	1	1	3
hsa-miR-548j-5p	ANP32B	1	1	1	3
hsa-miR-548y	ANP32B	1	1	1	3
hsa-miR-20b-5p	ANKRD52	1	1	1	3
hsa-miR-106a-5p	ANKRD52	1	1	1	3
hsa-miR-18b-3p	ANKRD52	1	1	1	3
hsa-miR-3934-3p	ANKRD50	1	1	1	3
hsa-miR-106a-5p	ANKRD50	1	1	1	3
hsa-miR-20b-5p	ANKRD50	1	1	1	3
hsa-miR-20b-5p	ANKRD33E	1	1	1	3
hsa-miR-106a-5p	ANKRD33E	1	1	1	3

hsa-miR-130b-5p	ANKRD28	1	1	1	3
hsa-miR-15b-3p	ANKRD27	1	1	1	3
hsa-miR-20b-5p	ANKRD13C	1	1	1	3
hsa-miR-122-5p	ANKRD13C	1	1	1	3
hsa-miR-20b-5p	ANKRD12	1	1	1	3
hsa-miR-20b-5p	ANKIB1	1	1	1	3
hsa-miR-20b-5p	ANKH	1	1	1	3
hsa-miR-106a-5p	ANKH	1	1	1	3
hsa-miR-211-5p	ANKFY1	1	1	1	3
hsa-miR-211-5p	ANGPTL2	1	1	1	3
hsa-miR-215-5p	ANAPC10	1	1	1	3
hsa-miR-205-5p	AMOT	1	1	1	3
hsa-miR-3619-5p	AMER1	1	1	1	3
hsa-miR-96-5p	ALK	1	1	1	3
hsa-miR-7-5p	ALG9	1	1	1	3
hsa-miR-122-5p	ALDOA	1	1	1	3
hsa-miR-1283	ALDH5A1	1	1	1	3
hsa-miR-6781-3p	ALDH5A1	1	1	1	3
hsa-miR-210-3p	ALDH5A1	1	1	1	3
hsa-miR-215-5p	ALCAM	1	1	1	3
hsa-miR-20b-5p	AKTIP	1	1	1	3
hsa-miR-122-5p	AKT3	1	1	1	3
hsa-miR-3664-3p	AKIRIN1	1	1	1	3
hsa-miR-216b-5p	AKIP1	1	1	1	3
hsa-miR-183-5p	AKAP12	1	1	1	3
hsa-miR-106a-5p	AKAP11	1	1	1	3
hsa-miR-548d-3p	AKAP11	1	1	1	3
hsa-miR-518a-5p	AKAP10	1	1	1	3
hsa-miR-527	AKAP10	1	1	1	3
hsa-miR-106a-3p	AKAP10	1	1	1	3
hsa-miR-522-3p	AKAP1	1	1	1	3
hsa-miR-210-3p	AIFM3	1	1	1	3
hsa-miR-3619-5p	AHNAK2	1	1	1	3
hsa-miR-1283	AHI1	1	1	1	3
hsa-miR-940	AHCYL2	1	1	1	3
hsa-miR-130b-3p	AGO1	1	1	1	3
hsa-miR-106a-5p	AGO1	1	1	1	3
hsa-miR-138-5p	AGO1	1	1	1	3
hsa-miR-20b-5p	AGO1	1	1	1	3
hsa-miR-425-5p	AFF4	1	1	1	3
hsa-miR-548f-3p	ADSS	1	1	1	3
hsa-miR-3616-5p	ADPRHL1	1	1	1	3
hsa-miR-301a-5p	ADPRH	1	1	1	3
hsa-miR-301b-5p	ADPRH	1	1	1	3
hsa-miR-182-5p	ADCY6	1	1	1	3
hsa-miR-96-5p	ADCY6	1	1	1	3
hsa-miR-3662	ADAMTS1	1	1	1	3
hsa-miR-512-3p	ADAM17	1	1	1	3
hsa-miR-548f-3p	ACVR2B	1	1	1	3
hsa-miR-135b-5p	ACVR1B	1	1	1	3
hsa-miR-210-3p	ACVR1B	1	1	1	3
hsa-miR-301b-3p	ACVR1	1	1	1	3
hsa-miR-130b-3p	ACVR1	1	1	1	3
hsa-miR-548j-5p	ACTN4	1	1	1	3
hsa-miR-548y	ACTN4	1	1	1	3
hsa-miR-4665-5p	ACTB	1	1	1	3
hsa-miR-3662	ACTA1	1	1	1	3
hsa-miR-526b-5p	ACSL6	1	1	1	3

hsa-miR-106a-5p	ACSL4	1	1	1	3
hsa-miR-20b-5p	ACSL4	1	1	1	3
hsa-miR-301b-3p	ACSL4	1	1	1	3
hsa-miR-527	ACSL4	1	1	1	3
hsa-miR-130b-3p	ACSL4	1	1	1	3
hsa-miR-205-5p	ACSL4	1	1	1	3
hsa-miR-518a-5p	ACSL4	1	1	1	3
hsa-miR-3662	ACSL4	1	1	1	3
hsa-miR-96-3p	ACSL3	1	1	1	3
hsa-miR-205-5p	ACSL1	1	1	1	3
hsa-miR-301b-3p	ACBD5	1	1	1	3
hsa-miR-130b-3p	ACBD5	1	1	1	3
hsa-miR-940	ACAP2	1	1	1	3
hsa-miR-599	ABI2	1	1	1	3
hsa-miR-20b-5p	ABHD2	1	1	1	3
hsa-miR-512-3p	ABHD15	1	1	1	3
hsa-miR-96-5p	ABCD1	1	1	1	3
hsa-miR-4665-5p	ABCC6	1	1	1	3
hsa-miR-4758-3p	ABCC5	1	1	1	3
hsa-miR-105-5p	ABCC4	1	1	1	3
hsa-miR-31-5p	ABCB9	1	1	1	3
hsa-miR-105-5p	ABCB5	1	1	1	3
hsa-miR-20b-5p	ABCA1	1	1	1	3
hsa-miR-1226-3p	AAMP	1	1	1	3
hsa-miR-548d-3p	AAGAB	1	1	1	3

target-up Gene	miRDB	miRTarBas	TargetScar	Sum
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hsa-miR-1 ZSWIM6	1	1	1	3
hsa-miR-6 ZSWIM6	1	1	1	3
hsa-miR-4 ZNRF3	1	1	1	3
hsa-miR-4 ZNRF2	1	1	1	3
hsa-miR-1 ZNF85	1	1	1	3
hsa-miR-4 ZNF704	1	1	1	3
hsa-miR-4 ZNF701	1	1	1	3
hsa-miR-4 ZNF691	1	1	1	3
hsa-miR-3 ZNF678	1	1	1	3
hsa-miR-1 ZNF654	1	1	1	3
hsa-miR-2 ZNF644	1	1	1	3
hsa-let-7c ZNF644	1	1	1	3
hsa-miR-4 ZNF622	1	1	1	3
hsa-let-7c ZNF566	1	1	1	3
hsa-miR-2 ZNF526	1	1	1	3
hsa-miR-1 ZNF460	1	1	1	3
hsa-miR-4 ZNF449	1	1	1	3
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hsa-miR-2 ZNF443	1	1	1	3
hsa-miR-1 ZNF385A	1	1	1	3
hsa-miR-4 ZNF275	1	1	1	3
hsa-miR-4 ZNF267	1	1	1	3
hsa-miR-1 ZNF25	1	1	1	3
hsa-miR-1 ZNF207	1	1	1	3
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hsa-miR-1 ZNF138	1	1	1	3
hsa-miR-1 ZNF117	1	1	1	3
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hsa-miR-1 ZMYND11	1	1	1	3
hsa-miR-4 ZMAT3	1	1	1	3
hsa-miR-1 ZFYVE9	1	1	1	3
hsa-miR-1 ZFYVE1	1	1	1	3
hsa-miR-2 ZFP91	1	1	1	3
hsa-miR-1 ZFP36L2	1	1	1	3
hsa-miR-2 ZFP30	1	1	1	3
hsa-miR-1 ZFP28	1	1	1	3
hsa-miR-4 ZFHX4	1	1	1	3
hsa-miR-2 ZFHX3	1	1	1	3
hsa-miR-1 ZEB1	1	1	1	3
hsa-let-7c ZCCHC3	1	1	1	3
hsa-miR-4 ZCCHC3	1	1	1	3
hsa-miR-2 ZCCHC24	1	1	1	3
hsa-miR-1 ZCCHC2	1	1	1	3
hsa-miR-1 ZBTB6	1	1	1	3
hsa-miR-2 ZBTB5	1	1	1	3
hsa-let-7c ZBTB5	1	1	1	3
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hsa-miR-1 ZBTB34	1	1	1	3
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hsa-miR-2 ZBTB22	1	1	1	3
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hsa-miR-1 YWHAQ	1	1	1	3
hsa-miR-4 YWHAQ	1	1	1	3
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hsa-miR-5 YTHDF3	1	1	1	3
hsa-miR-5 YTHDF3	1	1	1	3
hsa-miR-4 YTHDC1	1	1	1	3
hsa-let-7c YOD1	1	1	1	3
hsa-miR-4 YIPF6	1	1	1	3
hsa-miR-8 XPO4	1	1	1	3
hsa-miR-1 XPNPEP3	1	1	1	3
hsa-miR-2 WWC3	1	1	1	3
hsa-miR-4 WNK3	1	1	1	3
hsa-miR-4 WIPI2	1	1	1	3
hsa-miR-4 WEE1	1	1	1	3
hsa-miR-1 WEE1	1	1	1	3
hsa-miR-3 WEE1	1	1	1	3
hsa-miR-2 WDR26	1	1	1	3
hsa-miR-2 WASL	1	1	1	3
hsa-miR-1 VPS4B	1	1	1	3
hsa-miR-4 VPS4A	1	1	1	3
hsa-miR-4 VMA21	1	1	1	3
hsa-miR-1 VKORC1L1	1	1	1	3
hsa-miR-5 VGLL4	1	1	1	3
hsa-miR-5 VGLL4	1	1	1	3
hsa-miR-3 VEGFA	1	1	1	3
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hsa-miR-4 VEGFA	1	1	1	3
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hsa-miR-1 VDR	1	1	1	3
hsa-miR-1 UTRN	1	1	1	3
hsa-miR-1 UST	1	1	1	3
hsa-miR-1 USP6NL	1	1	1	3
hsa-miR-1 USP6NL	1	1	1	3
hsa-miR-2 USP47	1	1	1	3
hsa-miR-4 USP42	1	1	1	3
hsa-let-7c USP38	1	1	1	3
hsa-miR-1 USP33	1	1	1	3
hsa-miR-4 USP15	1	1	1	3
hsa-miR-1 USP14	1	1	1	3
hsa-miR-5 UNKL	1	1	1	3
hsa-miR-1 UNC5D	1	1	1	3
hsa-miR-4 UNC5D	1	1	1	3
hsa-miR-8 UNC119B	1	1	1	3
hsa-miR-1 UNC119B	1	1	1	3
hsa-miR-1 ULK3	1	1	1	3
hsa-miR-1 UHMK1	1	1	1	3
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hsa-miR-1 UBR7	1	1	1	3
hsa-miR-4 UBR3	1	1	1	3
hsa-miR-4 UBN2	1	1	1	3
hsa-miR-1 UBN2	1	1	1	3
hsa-miR-5 UBE4A	1	1	1	3
hsa-miR-4 UBE2V1	1	1	1	3
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hsa-miR-1 UBE2A	1	1	1	3

hsa-miR-2 U2SURP	1	1	1	3
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hsa-miR-3 TTC28	1	1	1	3
hsa-miR-1 TSPAN4	1	1	1	3
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hsa-miR-1 TRIM71	1	1	1	3
hsa-miR-4 TRIM35	1	1	1	3
hsa-miR-1 TRIM2	1	1	1	3
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hsa-miR-9 TRIB2	1	1	1	3
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hsa-miR-4 TRAK1	1	1	1	3
hsa-miR-1 TRA2B	1	1	1	3
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hsa-miR-4 TNRC6B	1	1	1	3
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hsa-miR-4 TLK1	1	1	1	3
hsa-miR-1 TKT	1	1	1	3
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hsa-miR-1 TIAM1	1	1	1	3
hsa-miR-3 THRB	1	1	1	3
hsa-miR-2 THRB	1	1	1	3
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hsa-miR-1 THBS1	1	1	1	3
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hsa-miR-1 TGFBR3	1	1	1	3
hsa-miR-4 TGFBR3	1	1	1	3
hsa-miR-2 TGFBR2	1	1	1	3
hsa-miR-1 TGFBR2	1	1	1	3
hsa-let-7c TGFBR1	1	1	1	3
hsa-miR-1 TGFBR1	1	1	1	3
hsa-miR-1 TFDP1	1	1	1	3

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hsa-miR-2 TET3	1	1	1	3
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hsa-miR-3 TES	1	1	1	3
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hsa-miR-1 TEAD1	1	1	1	3
hsa-miR-2 TDG	1	1	1	3
hsa-miR-1 TCF12	1	1	1	3
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hsa-miR-5 TBXA2R	1	1	1	3
hsa-miR-5 TBR1	1	1	1	3
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hsa-miR-1 TBC1D1	1	1	1	3
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hsa-miR-5 TAF8	1	1	1	3
hsa-miR-4 SYPL1	1	1	1	3
hsa-miR-4 SYNRG	1	1	1	3
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hsa-miR-1 SUZ12	1	1	1	3
hsa-miR-1 SUSD1	1	1	1	3
hsa-miR-1 SUPT16H	1	1	1	3
hsa-miR-5 SUN2	1	1	1	3
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hsa-miR-3 SSTR3	1	1	1	3
hsa-miR-4 SSRP1	1	1	1	3
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hsa-miR-1 SPRY4	1	1	1	3
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hsa-miR-2 SP1	1	1	1	3
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hsa-miR-1 SON	1	1	1	3
hsa-miR-4 SOCS6	1	1	1	3
hsa-let-7c SOCS1	1	1	1	3
hsa-miR-2 SNX24	1	1	1	3
hsa-miR-4 SNX16	1	1	1	3
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hsa-miR-4 SMURF1	1	1	1	3
hsa-miR-1 SMIM14	1	1	1	3
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hsa-let-7c SMCR8	1	1	1	3
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hsa-miR-1 SMARCB1	1	1	1	3
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hsa-miR-2 SLC16A1	1	1	1	3
hsa-let-7c SLC10A7	1	1	1	3
hsa-miR-4 SLBP	1	1	1	3

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hsa-miR-5 SKIDA1	1	1	1	3
hsa-miR-4 SKI	1	1	1	3
hsa-miR-1 SIX4	1	1	1	3
hsa-miR-1 SIRT7	1	1	1	3
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hsa-miR-3 SIPA1L2	1	1	1	3
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hsa-miR-4 SIAH1	1	1	1	3
hsa-miR-4 SHOC2	1	1	1	3
hsa-miR-5 SHE	1	1	1	3
hsa-miR-2 SH3PXD2A	1	1	1	3
hsa-miR-1 SH3BP5L	1	1	1	3
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hsa-miR-4 SESN3	1	1	1	3
hsa-miR-1 SESN3	1	1	1	3
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hsa-miR-1 SERINC5	1	1	1	3
hsa-miR-2 SERINC3	1	1	1	3
hsa-miR-4 SERBP1	1	1	1	3
hsa-miR-1 SEMA6A	1	1	1	3
hsa-let-7c SEMA4C	1	1	1	3
hsa-miR-1 SEMA4C	1	1	1	3
hsa-miR-1 SECISBP2L	1	1	1	3
hsa-miR-6 SEC24D	1	1	1	3
hsa-miR-3 SEC24A	1	1	1	3
hsa-miR-4 SEC24A	1	1	1	3
hsa-miR-2 SDR42E1	1	1	1	3
hsa-miR-1 SDC1	1	1	1	3
hsa-miR-4 SCOC	1	1	1	3
hsa-miR-3 SCML2	1	1	1	3
hsa-miR-1 SCARB2	1	1	1	3
hsa-miR-1 SCAF11	1	1	1	3
hsa-miR-1 SBNO1	1	1	1	3
hsa-miR-4 SBNO1	1	1	1	3
hsa-miR-4 SBNO1	1	1	1	3
hsa-miR-1 SAMD8	1	1	1	3
hsa-miR-2 SAMD5	1	1	1	3
hsa-miR-1 SAMD10	1	1	1	3
hsa-miR-4 SALL1	1	1	1	3
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hsa-miR-1 RYBP	1	1	1	3
hsa-miR-1 RYBP	1	1	1	3
hsa-miR-4 RYBP	1	1	1	3
hsa-miR-5 RXRB	1	1	1	3
hsa-miR-2 RUNX2	1	1	1	3
hsa-miR-4 RUNX1T1	1	1	1	3
hsa-miR-1 RTKN	1	1	1	3
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hsa-miR-1 RREB1	1	1	1	3
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hsa-miR-4 RPRD2	1	1	1	3
hsa-miR-5 RPL34	1	1	1	3
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hsa-miR-1 ROCK2	1	1	1	3
hsa-miR-2 ROBO1	1	1	1	3
hsa-miR-1 RNF44	1	1	1	3
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hsa-miR-4 RECK	1	1	1	3
hsa-let-7c RDX	1	1	1	3
hsa-miR-2 RCC2	1	1	1	3
hsa-miR-4 RBPJ	1	1	1	3
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hsa-miR-1 RBM47	1	1	1	3
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hsa-miR-4 RASSF2	1	1	1	3
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hsa-miR-4 RAD23B	1	1	1	3
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hsa-miR-2 RAB40B	1	1	1	3
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hsa-miR-2 PMP22	1	1	1	3
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hsa-miR-2 PCGF2	1	1	1	3
hsa-let-7c PBX3	1	1	1	3
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hsa-miR-1 PARP1	1	1	1	3
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hsa-miR-1 PAPPB	1	1	1	3
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hsa-miR-1 MYO6	1	1	1	3
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hsa-miR-2 MXD1	1	1	1	3
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hsa-miR-4 MAP2K1	1	1	1	3
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hsa-miR-1 MAML3	1	1	1	3
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hsa-miR-4 ITPR1	1	1	1	3
hsa-miR-1 ITGB8	1	1	1	3
hsa-let-7c ITGB3	1	1	1	3
hsa-miR-4 ITGA2	1	1	1	3
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hsa-miR-1 ICK	1	1	1	3
hsa-miR-4 IARS	1	1	1	3
hsa-miR-1 HSPE1-MC	1	1	1	3
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hsa-miR-8 HDGF	1	1	1	3
hsa-miR-2 HCAR2	1	1	1	3
hsa-miR-1 HBS1L	1	1	1	3
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hsa-let-7c E2F5	1	1	1	3
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hsa-miR-1 DVL3	1	1	1	3
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hsa-miR-2 CDC42	1	1	1	3
hsa-miR-4 CDC37L1	1	1	1	3
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hsa-miR-1 ANKRD33E	1	1	1	3
hsa-miR-6 ANKRD33E	1	1	1	3
hsa-miR-1 ANKRD29	1	1	1	3
hsa-miR-1 ANKRD28	1	1	1	3
hsa-miR-1 ANKRD17	1	1	1	3
hsa-miR-2 ANKRD13C	1	1	1	3
hsa-miR-2 ANKRD13A	1	1	1	3
hsa-miR-1 ANKRD11	1	1	1	3
hsa-miR-1 ANKRD11	1	1	1	3
hsa-miR-1 ANKIB1	1	1	1	3
hsa-miR-2 ANKIFY1	1	1	1	3
hsa-miR-2 ANGPTL2	1	1	1	3
hsa-miR-1 ANGPT2	1	1	1	3
hsa-miR-5 ANGPT2	1	1	1	3
hsa-miR-1 ANAPC16	1	1	1	3
hsa-miR-1 AMOTL1	1	1	1	3
hsa-miR-4 AMOTL1	1	1	1	3
hsa-miR-2 AMER1	1	1	1	3
hsa-miR-2 ALPL	1	1	1	3
hsa-miR-4 AKT3	1	1	1	3
hsa-miR-2 AKT3	1	1	1	3
hsa-miR-1 AKAP12	1	1	1	3
hsa-miR-1 AKAP10	1	1	1	3
hsa-miR-4 AKAP10	1	1	1	3
hsa-miR-2 AKAP1	1	1	1	3
hsa-miR-5 AKAP1	1	1	1	3
hsa-miR-1 AIMP1	1	1	1	3
hsa-miR-4 AGO4	1	1	1	3
hsa-miR-9 AGO2	1	1	1	3
hsa-miR-1 AEBP2	1	1	1	3
hsa-miR-3 ADSS	1	1	1	3
hsa-miR-1 ADPGK	1	1	1	3
hsa-miR-2 ADIPOR2	1	1	1	3
hsa-miR-1 ADD3	1	1	1	3
hsa-miR-1 ADD3	1	1	1	3
hsa-miR-1 ADAR	1	1	1	3
hsa-miR-1 ADAM17	1	1	1	3
hsa-miR-1 ADAM12	1	1	1	3
hsa-miR-4 ACVR2A	1	1	1	3
hsa-miR-4 ACTR2	1	1	1	3
hsa-miR-1 ACTB	1	1	1	3
hsa-miR-4 ACSL4	1	1	1	3
hsa-miR-1 ACSL4	1	1	1	3
hsa-miR-3 ACPP	1	1	1	3

hsa-miR-1 ACER2	1	1	1	3
hsa-let-7c ACER2	1	1	1	3
hsa-miR-5 ACBD3	1	1	1	3
hsa-miR-1 ABTB1	1	1	1	3
hsa-miR-1 ABRACL	1	1	1	3
hsa-miR-1 ABRACL	1	1	1	3
hsa-miR-4 ABL2	1	1	1	3
hsa-miR-4 ABHD2	1	1	1	3
hsa-miR-1 ABHD17C	1	1	1	3
hsa-miR-1 ABHD17C	1	1	1	3
hsa-miR-2 ABCE1	1	1	1	3
hsa-miR-1 ABCC5	1	1	1	3
hsa-miR-1 ABCB7	1	1	1	3
hsa-miR-1 AASDHPP1	1	1	1	3

Supplemental Table 3 The top eight significant prognostic genes revealed by univariate Cox proportional hazards regression

Gene	Hazard ratio	95% Confidence interval	pvalue
ESPL1	1.430	(1.155, 1.770)	0.001
NR3C1	1.332	(1.117, 1.589)	0.001
CCNE1	1.243	(1.083, 1.426)	0.002
GATA4	1.109	(1.036, 1.188)	0.003
KIF23	1.409	(1.113, 1.784)	0.004
EZH2	1.479	(1.118, 1.957)	0.006
CDC25A	1.304	(1.039, 1.636)	0.022
BIRC5	1.238	(1.027, 1.493)	0.025