

**Supplementary Table II. Target genes found exclusively for the 36 upregulated and 155 down regulate miNRAs differentially expressed across the four stages of disease.** Tumor (T) vs. Normal (N) status, the target genes and the respective experiments that reported the miRNA-target interactions are provided.

<b>Tumor (T) vs. Normal (N) status</b>	<b>miRNAs</b>	<b>Target Gene</b>	<b>Experiments</b>
Up	hsa-miR-29b-3p	TGFB3	Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-29b-3p	HDAC4	Luciferase reporter assay
Up	hsa-miR-29b-3p	HDAC4	Luciferase reporter assay
Up	hsa-miR-29b-3p	HDAC4	ChIP immunoprecipitation ; Immunocytochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	CTNNBIP1	Luciferase reporter assay
Up	hsa-miR-29b-3p	COL5A3	Luciferase reporter assay
Up	hsa-miR-29b-3p	COL4A2	Luciferase reporter assay
Up	hsa-miR-20a-5p	TCEAL1	Luciferase reporter assay ; Microarray ; Northern blot ; qRT-PCR ; Western blot
Up	hsa-miR-20a-5p	BMPR2	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-15a-5p	BMI1	Luciferase reporter assay ; Western blot
Up	hsa-miR-15a-5p	BMI1	Immunohistochemistry ; Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-15a-5p	BMI1	Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-15a-5p	CDC25A	Luciferase reporter assay
Up	hsa-miR-15a-5p	CCND2	Luciferase reporter assay
Up	hsa-miR-106b-5p	ITCH	Luciferase reporter assay
Up	hsa-miR-106b-5p	ITCH	Luciferase reporter assay ; Western blot
Up	hsa-miR-106b-5p	ITCH	Immunoprecipitation ; Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-106b-5p	APP	Luciferase reporter assay ; Western blot
Up	hsa-miR-1-3p	CEBPA	Luciferase reporter assay
Up	hsa-miR-1-3p	MEF2A	Luciferase reporter assay
Up	hsa-miR-1-3p	GATA4	Luciferase reporter assay
Up	hsa-miR-217	ROBO1	qRT-PCR ; Luciferase reporter assay ; Western blot
Up	hsa-miR-424-5p	CCNF	Luciferase reporter assay
Up	hsa-miR-424-5p	CDC14A	Luciferase reporter assay
Up	hsa-miR-424-5p	CDC25A	Luciferase reporter assay
Up	hsa-miR-424-5p	CHEK1	Luciferase reporter assay
Up	hsa-miR-424-5p	CHEK1	Luciferase reporter assay ; Western blot
Up	hsa-miR-424-5p	KIF23	Luciferase reporter assay

Up	hsa-miR-424-5p	ATF6	Luciferase reporter assay
Up	hsa-miR-424-5p	WEE1	Luciferase reporter assay
Up	hsa-miR-424-5p	WEE1	Flow ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-424-5p	ANLN	Luciferase reporter assay
Up	hsa-miR-140-5p	HDAC4	qRT-PCR ; Western blot ; Luciferase reporter assay
Up	hsa-miR-424-5p	PLAG1	Western blot ; Luciferase reporter assay ; Microarray
Up	hsa-miR-424-5p	PLAG1	Luciferase reporter assay
Up	hsa-miR-424-5p	CCNE1	qRT-PCR ; flow ; Western blot
Up	hsa-miR-424-5p	CCNE1	Luciferase reporter assay
Up	hsa-miR-424-5p	CCNE1	Immunohistochemistry ; qRT-PCR ; Western blot
Up	hsa-miR-424-5p	CCND3	qRT-PCR ; flow ; Luciferase reporter assay ; Western blot
Up	hsa-miR-1-3p	HDAC4	Western blot ; Luciferase reporter assay
Up	hsa-miR-1-3p	HDAC4	Western blot
Up	hsa-miR-1-3p	HDAC4	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-1-3p	FOXP1	qRT-PCR ; Western blot ; Luciferase reporter assay
Up	hsa-miR-1-3p	FOXP1	Luciferase reporter assay ; Western blot
Up	hsa-miR-218-5p	LAMB3	qRT-PCR ; Western blot ; Northern blot ; Luciferase reporter assay
Up	hsa-miR-218-5p	LAMB3	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-218-5p	LAMB3	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-98-5p	E2F2	Northern blot ; Western blot ; qRT-PCR ; ChIP ; Luciferase reporter assay
Up	hsa-miR-15a-5p	CCNE1	qRT-PCR ; Luciferase reporter assay ; Western blot
Up	hsa-miR-15a-5p	CCNE1	Luciferase reporter assay
Up	hsa-miR-15a-5p	CCNE1	immunohistochemistry ; Luciferase reporter assay ; Microarray ; qRT-PCR
Up	hsa-miR-15a-5p	CCNE1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-15a-5p	CCNE1	Western blot
Up	hsa-miR-1-3p	PTMA	Immunoblot ; Immunofluorescence ; Immunoprecipitation ; Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-1-3p	PTMA	Luciferase reporter assay

Up	hsa-miR-1-3p	PTBP1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-1-3p	CAND1	Luciferase reporter assay ; Microarray
Up	hsa-miR-126-5p	SLC45A3	Western blot ; Luciferase reporter assay ; Reporter assay;Other
Up	hsa-miR-1-3p	HAND2	Reporter assay;Other
Up	hsa-miR-1-3p	TMSB4X	Reporter assay;Other
Up	hsa-miR-1-3p	KCNJ2	Luciferase reporter assay ; Reporter assay;Other
Up	hsa-miR-1-3p	KCNJ2	Luciferase reporter assay
Up	hsa-miR-1-3p	KCNJ2	Western blot
Up	hsa-miR-29b-3p	SFPQ	Immunoprecipitaion ; Luciferase reporter assay ; Western blot
Up	hsa-miR-29b-3p	DNAJB11	Immunoprecipitaion ; Luciferase reporter assay ; Western blot
Up	hsa-miR-1-3p	XPO6	Immunoblot ; Immunofluorescence ; Immunoprecipitaion ; Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-1-3p	POGK	Luciferase reporter assay ; Microarray ; Microarray;Other
Up	hsa-miR-1-3p	ADAR	Luciferase reporter assay ; Microarray
Up	hsa-miR-1-3p	KCNE1	Luciferase reporter assay ; Western blot ; 5'RACE ; Real time RT-PCR
Up	hsa-miR-15a-5p	DMTF1	Luciferase reporter assay ; Reporter assay
Up	hsa-miR-1-3p	BDNF	Luciferase reporter assay
Up	hsa-miR-1-3p	G6PD	Luciferase reporter assay
Up	hsa-miR-1-3p	G6PD	Luciferase reporter assay ; Quantitative proteomic approach ; Western blot
Up	hsa-miR-1-3p	G6PD	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-429	RERE	Luciferase reporter assay
Up	hsa-miR-20a-5p	MAP3K12	Luciferase reporter assay
Up	hsa-miR-20a-5p	MEF2D	Luciferase reporter assay
Up	hsa-miR-29b-3p	DNMT3B	Luciferase reporter assay ; Western blot ; qRT-PCR ; Reporter assay;Other
Up	hsa-miR-29b-3p	DNMT3B	Luciferase reporter assay
Up	hsa-miR-29b-3p	DNMT3B	Luciferase reporter assay
Up	hsa-miR-29b-3p	DNMT3B	qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	DNMT3B	qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	DNMT3B	Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	DNMT3B	Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot

Up	hsa-miR-29b-3p	DNMT3B	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	DNMT3B	Luciferase reporter assay
Up	hsa-miR-29b-3p	DNMT3A	Luciferase reporter assay ; Western blot ; qRT-PCR ; Reporter assay;Other
Up	hsa-miR-29b-3p	DNMT3A	Luciferase reporter assay
Up	hsa-miR-29b-3p	DNMT3A	Immunohistochemistry ; Microarray ; Western blot
Up	hsa-miR-29b-3p	DNMT3A	qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	DNMT3A	qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	DNMT3A	Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	DNMT3A	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	DNMT3A	Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-1-3p	SOX6	Luciferase reporter assay
Up	hsa-miR-424-5p	MAP2K1	Luciferase reporter assay
Up	hsa-miR-424-5p	MAP2K1	Immunohistochemistry ; qRT-PCR ; Western blot
Up	hsa-miR-15a-5p	AKT3	Luciferase reporter assay
Up	hsa-miR-20a-5p	APP	Luciferase reporter assay ; Western blot
Up	hsa-miR-20a-5p	APP	GFP reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-1-3p	ATP6V1B2	Luciferase reporter assay
Up	hsa-miR-1-3p	LARP4	Luciferase reporter assay
Up	hsa-miR-1-3p	CNN3	Luciferase reporter assay
Up	hsa-miR-29b-3p	DNMT1	qRT-PCR ; Western blot
Up	hsa-miR-20a-5p	RUNX1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-19b-3p	ATXN1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-1-3p	KIF2A	Luciferase reporter assay ; Microarray
Up	hsa-miR-15a-5p	CADM1	Reporter assay ; qRT-PCR
Up	hsa-miR-424-5p	NFIA	Luciferase reporter assay ; Northern blot ; Western blot
Up	hsa-miR-1-3p	HSPD1	Luciferase reporter assay
Up	hsa-miR-1-3p	HSPD1	Luciferase reporter assay
Up	hsa-miR-1-3p	HSPA4	Luciferase reporter assay
Up	hsa-miR-218-5p	IKBKB	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-19b-3p	MYLIP	Luciferase reporter assay
Up	hsa-miR-29b-3p	ESR1	Western blot
Up	hsa-miR-19b-3p	ESR1	Western blot ; qRT-PCR ; Luciferase reporter assay

Up	hsa-miR-1-3p	PIM1	qRT-PCR ; Luciferase reporter assay ; Western blot
Up	hsa-miR-1-3p	PIM1	Luciferase reporter assay ; Northern blot ; Western blot
Up	hsa-miR-1-3p	PIM1	Western blot
Up	hsa-miR-106b-5p	KAT2B	Western blot ; Luciferase reporter assay
Up	hsa-miR-19b-3p	SOCS1	Luciferase reporter assay ; Western blot
Up	hsa-miR-98-5p	TUSC2	Luciferase reporter assay ; Western blot
Up	hsa-miR-29b-3p	TET1	qRT-PCR ; Luciferase reporter assay ; Western blot
Up	hsa-miR-29b-3p	TET1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	TET1	Luciferase reporter assay ; Western blot
Up	hsa-miR-429	WASF3	Luciferase reporter assay
Up	hsa-miR-1-3p	CALM3	Luciferase reporter assay
Up	hsa-miR-29b-3p	TCL1A	Luciferase reporter assay
Up	hsa-miR-29b-3p	TCL1A	Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-218-5p	VOPP1	Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-218-5p	VOPP1	Luciferase reporter assay ; Western blot
Up	hsa-miR-1-3p	PPP2R5A	Luciferase reporter assay ; Western blot
Up	hsa-miR-126-5p	SPRED1	Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-106b-5p	RB1	Luciferase reporter assay
Up	hsa-miR-106b-5p	RB1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-106b-5p	RB1	Luciferase reporter assay ; Microarray ; Western blot
Up	hsa-miR-1-3p	PAX3	ChIP-seq ; Immunoblot ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-15a-5p	TSPYL2	Luciferase reporter assay
Up	hsa-miR-19b-3p	BMPR2	Luciferase reporter assay
Up	hsa-miR-1-3p	TWF1	Luciferase reporter assay ; Microarray ; Northern blot ; qRT-PCR ; Western blot
Up	hsa-miR-98-5p	SOCS4	Luciferase reporter assay ; Northern blot ; qRT-PCR ; Western blot ; Reporter assay;Western blot;qRT-PCR;Other
Up	hsa-miR-542-3p	BIRC5	Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-542-3p	BIRC5	qRT-PCR ; Luciferase reporter assay ; Western blot
Up	hsa-miR-542-3p	BIRC5	Flow ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	MMP15	Luciferase reporter assay ; qRT-PCR

Up	hsa-miR-29b-3p	MMP24	Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-20a-5p	BNIP2	qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	GRN	ELISA ; Luciferase reporter assay ; qRT-PCR ; Western blot ; Reporter assay;Western blot;Other
Up	hsa-miR-29b-3p	FGG	ELISA ; Flow ; Luciferase reporter assay
Up	hsa-miR-29b-3p	FGA	Luciferase reporter assay
Up	hsa-miR-29b-3p	FGB	Luciferase reporter assay
Up	hsa-miR-15a-5p	CHUK	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	COL3A1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	COL3A1	Luciferase reporter assay
Up	hsa-miR-29b-3p	COL4A1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	COL4A1	Luciferase reporter assay
Up	hsa-miR-29b-3p	COL4A1	Luciferase reporter assay
Up	hsa-miR-215-5p	WNK1	Luciferase reporter assay ; Northern blot ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	ADAM12	Luciferase reporter assay ; Microarray ; Northern blot ; qRT-PCR
Up	hsa-miR-29b-3p	ADAM12	Luciferase reporter assay ; Microarray ; qRT-PCR
Up	hsa-miR-29b-3p	ADAM12	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	NID1	Luciferase reporter assay ; Microarray ; Northern blot ; qRT-PCR
Up	hsa-miR-98-5p	CCL5	ELISA ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-126-5p	PTPN7	Flow ; Immunoprecipitaion ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-106b-5p	TCEAL1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-106b-5p	TCEAL1	Luciferase reporter assay
Up	hsa-miR-106b-5p	TCEAL1	Flow ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-20a-5p	CCND2	Luciferase reporter assay
Up	hsa-miR-20a-5p	RB1	Luciferase reporter assay
Up	hsa-miR-20a-5p	RBL1	Luciferase reporter assay
Up	hsa-miR-20a-5p	RBL2	Luciferase reporter assay
Up	hsa-miR-20a-5p	WEE1	Luciferase reporter assay
Up	hsa-miR-106b-5p	CCND2	Luciferase reporter assay
Up	hsa-miR-106b-5p	RBL1	Luciferase reporter assay
Up	hsa-miR-106b-5p	RBL1	Luciferase reporter assay

Up	hsa-miR-106b-5p	RBL2	Luciferase reporter assay
Up	hsa-miR-106b-5p	RBL2	Luciferase reporter assay
Up	hsa-miR-106b-5p	RBL2	Luciferase reporter assay
Up	hsa-miR-106b-5p	WEE1	Luciferase reporter assay
Up	hsa-miR-424-5p	SIAH1	Immunohistochemistry ; Luciferase reporter assay ; Northern blot ; qRT-PCR ; Western blot
Up	hsa-miR-424-5p	CUL2	ChIP-seq ; Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-424-5p	SPI1	ChIP-seq ; Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-15a-5p	FGF7	Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-218-5p	BIRC5	Immunoblot ; Luciferase reporter assay ; Microarray ; qRT-PCR
Up	hsa-miR-218-5p	BIRC5	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-218-5p	BIRC5	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-218-5p	ROBO1	Immunoblot ; Luciferase reporter assay ; Microarray ; qRT-PCR
Up	hsa-miR-218-5p	ROBO1	Immunohistochemistry ; Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-218-5p	ROBO1	Immunohistochemistry ; In situ hybridization ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	TGFB1	ELISA ; GFP reporter assay ; qRT-PCR
Up	hsa-miR-29b-3p	TGFB1	ELISA ; Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	BMP1	ELISA ; GFP reporter assay ; qRT-PCR
Up	hsa-miR-29b-3p	BMP1	Luciferase reporter assay ; Microarray ; qRT-PCR
Up	hsa-miR-218-5p	RICTOR	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-218-5p	RICTOR	HITS-CLIP ; Luciferase reporter assay ; Western blot
Up	hsa-miR-1-3p	FN1	GFP reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-1-3p	FN1	Immunoblot ; Immunofluorescence ; Immunoprecipitation ; Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-15a-5p	CLCN3	Luciferase reporter assay ; Microarray ; Northern blot ; qRT-PCR ; Western blot
Up	hsa-miR-15a-5p	CRKL	Luciferase reporter assay ; Microarray ; Northern blot ; qRT-PCR ; Western blot
Up	hsa-miR-20a-5p	IRF2	Luciferase reporter assay ; Microarray ; Northern blot ; qRT-PCR ; Western blot

Up	hsa-miR-20a-5p	KIT	Luciferase reporter assay ; Microarray ; Northern blot ; qRT-PCR ; Western blot
Up	hsa-miR-15a-5p	MN1	Luciferase reporter assay ; Microarray ; Northern blot ; qRT-PCR ; Western blot
Up	hsa-miR-140-5p	PDGFRA	Luciferase reporter assay ; Western blot
Up	hsa-miR-140-5p	PDGFRA	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	NASP	Luciferase reporter assay ; Western blot
Up	hsa-miR-19b-1-5p	FGFR2	Luciferase reporter assay ; Western blot
Up	hsa-miR-20a-5p	EGLN3	Luciferase reporter assay ; Western blot
Up	hsa-miR-215-5p	ACVR2B	Luciferase reporter assay ; Western blot
Up	hsa-miR-217	FHIT	Luciferase reporter assay
Up	hsa-miR-142-3p	RAC1	GFP reporter assay
Up	hsa-miR-142-3p	RAC1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-98-5p	IL13	Luciferase reporter assay ; Reporter assay;Other
Up	hsa-miR-708-3p	MPL	Luciferase reporter assay ; Western blot
Up	hsa-miR-708-3p	N4BP1	Luciferase reporter assay
Up	hsa-miR-708-3p	OTUB1	Luciferase reporter assay
Up	hsa-miR-708-3p	TEX261	Luciferase reporter assay
Up	hsa-miR-19b-3p	CUL5	qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	PPP1R13B	Luciferase reporter assay ; Western blot
Up	hsa-miR-106b-5p	EOMES	Luciferase reporter assay
Up	hsa-miR-142-3p	ARNTL	Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-142-3p	ARNTL	Luciferase reporter assay
Up	hsa-miR-142-3p	ARNTL	Luciferase reporter assay ; QRT-PCR ; Western blot
Up	hsa-miR-429	XIAP	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-19b-3p	PRKAA1	Luciferase reporter assay
Up	hsa-miR-19b-3p	PPP2R5E	Luciferase reporter assay
Up	hsa-miR-19b-3p	PPP2R5E	Luciferase reporter assay
Up	hsa-miR-218-5p	SOST	Luciferase reporter assay
Up	hsa-miR-218-5p	SOST	Luciferase reporter assay
Up	hsa-miR-218-5p	SOST	ELISA ; Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-218-5p	SFRP2	Luciferase reporter assay
Up	hsa-miR-218-5p	SFRP2	Luciferase reporter assay
Up	hsa-miR-218-5p	SFRP2	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-218-5p	SFRP2	ELISA ; Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-29b-3p	GSK3B	Luciferase reporter assay

Up	hsa-miR-20a-5p	PPARG	Luciferase reporter assay
Up	hsa-miR-20a-5p	BAMBI	Luciferase reporter assay
Up	hsa-miR-20a-5p	CRIM1	Luciferase reporter assay
Up	hsa-miR-20a-5p	MAP2K3	Luciferase reporter assay
Up	hsa-miR-29b-3p	PIK3CG	Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-1-3p	SLC8A1	Luciferase reporter assay ; Western blot
Up	hsa-miR-218-5p	HOXB3	Luciferase reporter assay
Up	hsa-miR-1-3p	EDN1	Luciferase reporter assay
Up	hsa-miR-1-3p	EDN1	Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-1-3p	EDN1	Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-1-3p	EDN1	ELISA ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-429	OSTF1	Luciferase reporter assay
Up	hsa-miR-136-5p	MTDH	Luciferase reporter assay
Up	hsa-miR-136-5p	MTDH	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-140-5p	DNMT1	Immunohistochemistry ; Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-140-5p	DNMT1	Luciferase reporter assay
Up	hsa-miR-15a-5p	IFNG	Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-29b-3p	NKIRAS2	Luciferase reporter assay ; Microarray ; qRT-PCR
Up	hsa-miR-15a-5p	PURA	Luciferase reporter assay
Up	hsa-miR-20a-5p	PURA	Luciferase reporter assay
Up	hsa-miR-106b-5p	PURA	Luciferase reporter assay
Up	hsa-miR-542-3p	ILK	Immunoblot ; Immunocytochemistry ; Luciferase reporter assay
Up	hsa-miR-542-3p	ILK	Immunohistochemistry ; Luciferase reporter assay ; Western blot
Up	hsa-miR-29b-3p	RAX	Luciferase reporter assay ; Western blot
Up	hsa-miR-140-5p	DNPEP	Luciferase reporter assay
Up	hsa-miR-29b-3p	TBX21	Luciferase reporter assay
Up	hsa-miR-29b-3p	IFNG	Luciferase reporter assay
Up	hsa-miR-29b-3p	IFNG	Luciferase reporter assay
Up	hsa-miR-218-5p	DKK2	Luciferase reporter assay
Up	hsa-miR-218-5p	DKK2	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-218-5p	TOB1	Luciferase reporter assay
Up	hsa-miR-218-5p	TOB1	Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-15a-5p	RECK	GFP reporter assay ; qRT-PCR
Up	hsa-miR-29b-3p	DUSP2	Luciferase reporter assay
Up	hsa-miR-217	SMAD7	Luciferase reporter assay
Up	hsa-miR-1-3p	PRKCE	Luciferase reporter assay

Up	hsa-miR-1-3p	FABP3	ELISA ; Immunoprecipitaion ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-1-3p	SNAI2	Flow ; Immunoblot ; Immunofluorescence ; Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-1-3p	SNAI2	Immunofluorescence ; Immunohistochemistry ; qRT-PCR ; Western blot
Up	hsa-miR-1-3p	SOX9	Luciferase reporter assay
Up	hsa-miR-218-5p	BMI1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-218-5p	BMI1	Immunofluorescence ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-218-5p	BMI1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-126-5p	ADAM9	Luciferase reporter assay
Up	hsa-miR-19b-3p	CYP19A1	Luciferase reporter assay
Up	hsa-miR-19b-3p	GCM1	Luciferase reporter assay
Up	hsa-miR-142-5p	NFE2L2	Luciferase reporter assay
Up	hsa-miR-215-5p	CTNNBIP1	Luciferase reporter assay
Up	hsa-miR-140-5p	OSTM1	Luciferase reporter assay
Up	hsa-miR-140-5p	FGF9	Luciferase reporter assay
Up	hsa-miR-126-5p	CXCL12	Luciferase reporter assay
Up	hsa-miR-429	KLHL20	Reporter assay
Up	hsa-miR-429	PTPRD	Reporter assay
Up	hsa-miR-429	ELMO2	Reporter assay
Up	hsa-miR-429	ERBIN	Reporter assay
Up	hsa-miR-429	BAP1	Reporter assay
Up	hsa-miR-429	WDR37	Reporter assay
Up	hsa-miR-429	VAC14	Reporter assay
Up	hsa-miR-429	TCF7L1	Reporter assay
Up	hsa-miR-429	HOXB5	Reporter assay
Up	hsa-miR-429	RASSF2	Reporter assay
Up	hsa-miR-429	RIN2	Reporter assay
Up	hsa-miR-429	KLF11	Reporter assay
Up	hsa-miR-429	7-Sep	Reporter assay
Up	hsa-miR-429	SHC1	Reporter assay
Up	hsa-miR-106b-5p	CASP7	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-106b-5p	JAK1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-106b-5p	PKD2	Western blot
Up	hsa-miR-142-3p	BOD1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-142-3p	PROM1	Reporter assay

Up	hsa-miR-142-3p	PROM1	Luciferase reporter assay ; Western blot
Up	hsa-miR-1-3p	PGD	Luciferase reporter assay ; Quantitative proteomic approach ; Western blot
Up	hsa-miR-1-3p	IL11	Western blot
Up	hsa-miR-1-3p	YWHAZ	qRT-PCR ; Western blot
Up	hsa-miR-1-3p	TKT	Luciferase reporter assay ; Quantitative proteomic approach ; Western blot
Up	hsa-miR-1-3p	CCL2	ELISA ; Immunofluorescence ; Immunohistochemistry ; Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-215-5p	RB1	Immunofluorescence ; Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-215-5p	XIAP	qRT-PCR ; Luciferase reporter assay ; Immunohistochemistry ; Western blot
Up	hsa-miR-29b-3p	MYCN	Reporter assay
Up	hsa-miR-98-5p	PGRMC1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-98-5p	HK2	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-98-5p	NRAS	Immunofluorescence ; In situ hybridization ; Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-20a-5p	ARHGAP12	Reporter assay
Up	hsa-miR-20a-5p	TSG101	Reporter assay
Up	hsa-miR-19b-3p	HIPK1	Immunofluorescence ; Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-19b-3p	MYCN	Reporter assay
Up	hsa-miR-20a-5p	SIRPA	Luciferase reporter assay
Up	hsa-miR-106b-5p	SETD2	ChIP-seq ; Immunocytochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-98-5p	ITGB3	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-20a-5p	UBE2C	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-15a-5p	FOXO1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-20a-5p	LIMK1	Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-15a-5p	REPIN1	Luciferase reporter assay ; Western ; qRT-PCR
Up	hsa-miR-98-5p	CYP19A1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-98-5p	CYP19A1	qRT-PCR ; Luciferase reporter assay ; Western blot
Up	hsa-miR-142-3p	CCNT2	Luciferase reporter assay ; Western blot

Up	hsa-miR-142-3p	TAB2	Luciferase reporter assay ; Western blot
Up	hsa-miR-218-5p	LEF1	Luciferase reporter assay ; Western blot
Up	hsa-miR-20a-5p	DUSP2	qRT-PCR ; Western blot ; Reporter assay
Up	hsa-miR-15a-5p	KLF4	Western blot
Up	hsa-miR-20a-5p	ITGB8	Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-140-5p	ALDH1A1	Luciferase reporter assay ; Western blot
Up	hsa-miR-140-5p	SOX9	Luciferase reporter assay ; Western blot
Up	hsa-miR-424-5p	SOCS6	Luciferase reporter assay ; Western blot
Up	hsa-miR-217	E2F3	Immunohistochemistry ; Luciferase reporter assay ; Western blot
Up	hsa-miR-20a-5p	SMAD7	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-218-5p	MITF	Flow ; Immunofluorescence ; Luciferase reporter assay ; Western blot
Up	hsa-miR-20a-5p	MAP3K5	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-142-3p	PTPN23	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-142-3p	EGR2	Flow ; Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	TDG	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-424-5p	CDX2	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-20a-5p	TP53INP1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-452-5p	DPYSL2	qRT-PCR ; Western blot
Up	hsa-miR-20a-5p	EGR2	Flow ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	CCND2	Immunofluorescence ; Immunohistochemistry ; Luciferase reporter assay ; Northern blot ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	CCND2	qRT-PCR ; Western blot
Up	hsa-miR-106b-5p	ATG16L1	Immunofluorescence ; Immunohistochemistry ; In situ hybridization ; Luciferase reporter assay ; Western blot
Up	hsa-miR-29b-3p	SERPINH1	Luciferase reporter assay
Up	hsa-miR-29b-3p	SERPINH1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	SERPINH1	Immunofluorescence ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-19b-3p	MXD1	Luciferase reporter assay ; qRT-PCR ; Western blot

Up	hsa-miR-106b-5p	SMAD7	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-106b-5p	SMAD7	Flow ; Immunofluorescence ; Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-142-5p	TP53INP1	Immunohistochemistry ; Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	SNAI3	Luciferase reporter assay ; Western blot
Up	hsa-miR-218-5p	PDGFRA	Luciferase reporter assay ; Microarray ; qRT-PCR
Up	hsa-miR-1-3p	ETS1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-542-3p	MTDH	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-106b-5p	ZBTB4	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-374b-5p	RECK	Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-429	DNMT1	ChIP-seq ; qRT-PCR ; Western blot
Up	hsa-miR-218-5p	GLI2	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-15a-5p	YAP1	Flow ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-142-3p	IL1A	Luciferase reporter assay ; Western blot
Up	hsa-miR-218-5p	OTUD7B	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-15a-5p	CARM1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-429	RBBP4	ChIP-seq ; Flow ; Immunohistochemistry ; In situ hybridization ; Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	PER1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-215-5p	PTPRT	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-217	DACH1	Luciferase reporter assay/Western blot ; qRT-PCR
Up	hsa-miR-452-5p	THRB	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-20a-5p	ABL2	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-15a-5p	SOX5	Luciferase reporter assay ; Western blot
Up	hsa-miR-429	RASSF8	Luciferase reporter assay ; Western blot

Up	hsa-miR-20a-5p	ZFYVE9	Immunoblot ; Immunohistochemistry ; In situ hybridization ; Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-20a-5p	ZFYVE9	Immunoblot ; Immunofluorescence ; Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-20a-5p	ATG16L1	Immunofluorescence ; Immunoprecipitation ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-140-5p	2-Sep	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-20a-5p	ANKH	Luciferase reporter assay
Up	hsa-miR-15a-5p	HSPA1B	Luciferase reporter assay
Up	hsa-miR-142-3p	HSPA1B	Luciferase reporter assay ; Western blot
Up	hsa-miR-140-5p	FZD6	Luciferase reporter assay ; Microarray
Up	hsa-miR-106b-5p	TRIM8	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-98-5p	CCND2	GFP reporter assay
Up	hsa-miR-542-3p	PIM1	Luciferase reporter assay
Up	hsa-miR-29b-3p	TET2	Luciferase reporter assay
Up	hsa-miR-29b-3p	TET2	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-20a-5p	REST	Luciferase reporter assay ; Western blot
Up	hsa-miR-142-5p	RAC1	Western blot ; Luciferase reporter assay
Up	hsa-miR-142-3p	LPP	Luciferase reporter assay
Up	hsa-miR-98-5p	EDN1	Luciferase reporter assay
Up	hsa-miR-15a-5p	WEE1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-19b-3p	BCL3	Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-15a-5p	CHEK1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-217	FOXO3	Luciferase reporter assay ; Western blot ; qRT-PCR
Up	hsa-miR-29b-3p	LAMC2	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	ITGA6	Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-29b-3p	ITGA6	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-542-3p	BMP7	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-542-3p	BMP7	Luciferase reporter assay ; qRT-PCR ; Western blot

Up	hsa-miR-106b-5p	RUNX3	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	COL5A2	Luciferase reporter assay
Up	hsa-miR-29b-3p	COL10A1	Luciferase reporter assay
Up	hsa-miR-29b-3p	SPARC	Luciferase reporter assay
Up	hsa-miR-29b-3p	FBN1	Luciferase reporter assay
Up	hsa-miR-29b-3p	LOX	Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-29b-3p	LOX	Luciferase reporter assay
Up	hsa-miR-29b-3p	PDGFRB	Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-29b-3p	PDGFRB	Luciferase reporter assay
Up	hsa-miR-140-5p	RALA	Luciferase reporter assay
Up	hsa-miR-140-5p	RALA	Luciferase reporter assay ; Microarray
Up	hsa-miR-20a-5p	PRKG1	Immunocytochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-1-3p	TH	Luciferase reporter assay
Up	hsa-miR-452-5p	BMI1	Immunofluorescence ; Western blot
Up	hsa-miR-452-5p	LEF1	Immunofluorescence ; Western blot
Up	hsa-miR-452-5p	TCF4	Immunofluorescence ; Western blot
Up	hsa-miR-1-3p	MPL	Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot ; RISC analysis
Up	hsa-miR-1-3p	API5	FACS ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-542-3p	RPS23	Immunoprecipitation ; Luciferase reporter assay ; Next Generation Sequencing (NGS) ; qRT-PCR ; Western blot
Up	hsa-miR-98-5p	CBL	Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-142-3p	LGR5	Luciferase reporter assay ; Western blot
Up	hsa-miR-1-3p	SPRED1	Luciferase reporter assay ; Western blot
Up	hsa-miR-1-3p	ASPH	Luciferase reporter assay
Up	hsa-miR-20a-5p	RGS5	ChIP-seq ; qRT-PCR ; Luciferase reporter assay
Up	hsa-miR-218-5p	CDH2	qRT-PCR ; Luciferase reporter assay ; Western blot
Up	hsa-miR-429	ONECUT2	Luciferase reporter assay ; Western blot ; qRT-PCR
Up	hsa-miR-452-5p	CDKN1B	Luciferase reporter assay ; Western blot
Up	hsa-miR-20a-5p	ETV1	Luciferase reporter assay ; qRT-PCR ; microarray ; Western blotting
Up	hsa-miR-542-3p	ANGPT2	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-429	TIMP2	Luciferase reporter assay ; Western blot
Up	hsa-miR-20a-5p	EPAS1	Luciferase reporter assay
Up	hsa-miR-15a-5p	PHLPP1	Luciferase reporter assay ; Northern blot ; qRT-PCR ; Western blot

Up	hsa-miR-217	GPC5	Luciferase reporter assay ; Northern blot ; qRT-PCR ; Western blot
Up	hsa-miR-142-3p	HOXA10	Luciferase reporter assay
Up	hsa-miR-142-3p	HOXA7	Luciferase reporter assay
Up	hsa-miR-142-3p	HOXA9	Luciferase reporter assay
Up	hsa-miR-20a-5p	FBXO31	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-140-5p	PAX6	Luciferase reporter assay ; Western blot
Up	hsa-miR-140-5p	HDAC7	Luciferase reporter assay ; Western blot
Up	hsa-miR-140-5p	ADA	Luciferase reporter assay ; Western blot
Up	hsa-miR-582-5p	EFNB2	Luciferase reporter assay ; Western blot ; qRT-PCR
Up	hsa-miR-1-3p	ND1	Immunoprecipitaion ; Luciferase reporter assay
Up	hsa-miR-1-3p	COX1	Immunoprecipitaion ; Luciferase reporter assay
Up	hsa-miR-218-5p	SH3GL1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-140-5p	MMD	Luciferase reporter assay
Up	hsa-miR-140-5p	MMD	Luciferase reporter assay ; Microarray
Up	hsa-miR-20a-5p	DNMT1	Luciferase reporter assay
Up	hsa-miR-19b-3p	DNMT1	Luciferase reporter assay
Up	hsa-miR-1-3p	FRS2	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-20a-5p	PKD1	Luciferase reporter assay
Up	hsa-miR-582-5p	RAB27A	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-1-3p	AGO1	Luciferase reporter assay
Up	hsa-miR-24-2-5p	SPRY2	ChIP-seq ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-142-3p	LRRC32	Immunofluorescence ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	GATA3	Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-29b-3p	PDGFRA	Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-29b-3p	PDGFC	Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-29b-3p	PDGFA	Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-29b-3p	LOXL4	Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-29b-3p	LOXL2	Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-29b-3p	ITGB1	Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-29b-3p	ANGPTL4	Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-218-5p	RPS6KA3	ChIP-seq ; Immunofluorescence ; Immunohistochemistry ; Luciferase reporter assay ; Mass spectrometry ; Microarray ; qRT-PCR ; Western blot

Up	hsa-miR-218-5p	LGR4	ELISA ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-106b-5p	FAM129A	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-542-3p	OTUB1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-424-5p	SMAD7	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-20a-5p	PKNOX1	Luciferase reporter assay
Up	hsa-miR-106b-5p	RHOC	Luciferase reporter assay
Up	hsa-miR-20a-5p	RUNX3	Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-424-5p	TGFBR3	Luciferase reporter assay ; Next Generation Sequencing (NGS) ; qRT-PCR ; Western blot
Up	hsa-miR-19b-3p	TNFAIP3	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-20a-5p	RB1CC1	Luciferase reporter assay
Up	hsa-miR-15a-5p	CXCL10	Luciferase reporter assay
Up	hsa-miR-660-5p	TFCP2	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-424-5p	SOCS2	Luciferase reporter assay
Up	hsa-miR-140-5p	STAT1	Luciferase reporter assay ; Western blot
Up	hsa-miR-218-5p	POU2F2	ChIP-seq ; Immunofluorescence ; Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-142-5p	SOCS1	ChIP-seq ; ELISA ; EMSA ; Immunofluorescence ; Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-1-3p	NAIP	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-142-5p	CLDN1	Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-20a-5p	NFKBIB	Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-15b-3p	RECK	Western blot
Up	hsa-miR-29b-3p	AQP4	Immunofluorescence ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-542-3p	IGFBP1	Luciferase reporter assay
Up	hsa-miR-424-5p	KDM5B	Luciferase reporter assay
Up	hsa-miR-98-5p	SNX6	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-98-5p	PBX3	Luciferase reporter assay ; qRT-PCR ; Western blot

Up	hsa-miR-215-5p	RUNX1	Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-542-3p	CTTN	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-106b-5p	PRRX1	Luciferase reporter assay ; Western blot
Up	hsa-miR-20a-5p	KIF26B	; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-552-3p	PIK3R2	Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-106b-5p	DAB2	Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-20a-5p	TIMP2	Luciferase reporter assay
Up	hsa-miR-98-5p	CHUK	Luciferase reporter assay
Up	hsa-miR-1-3p	RARB	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	KIF1B	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-218-5p	E2F2	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-218-5p	HMOX1	Luciferase reporter assay
Up	hsa-miR-142-3p	DOCK6	Immunoblot ; qRT-PCR ; Luciferase reporter assay ; Western blot
Up	hsa-miR-98-5p	PAK1	Luciferase reporter assay
Up	hsa-miR-106b-5p	SLC2A4	LacZ reporter assay
Up	hsa-miR-140-5p	SNORD12C	Luciferase reporter assay
Up	hsa-miR-140-5p	GALC	Luciferase reporter assay ; Microarray
Up	hsa-miR-140-5p	GALNT16	Luciferase reporter assay ; Microarray
Up	hsa-miR-1-3p	BAG4	Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-20a-5p	Vegfa	Luciferase reporter assay
Up	hsa-miR-98-5p	CCL2	ELISA ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-22-5p	BSG	qRT-PCR ; Western blot
Up	hsa-miR-15b-3p	SIRT4	Immunofluorescence ; Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-7-1-3p	RAF1	Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-552-3p	BIRC5	Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	PPIC	Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-19b-3p	PKNOX1	Luciferase reporter assay
Up	hsa-miR-140-5p	HMG5	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	KDM2A	ChIP-seq ; Immunoprecipitation ; Luciferase reporter assay ; qRT-PCR ; Western blot

Up	hsa-miR-218-5p	WASF3	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-140-5p	FGFRL1	Luciferase reporter assay
Up	hsa-miR-215-5p	NID1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-15b-3p	TRIM31	Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-140-5p	SMURF1	Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-19b-3p	MTUS1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-7-1-3p	KCNJ2	Luciferase reporter assay
Up	hsa-miR-10a-3p	IRAK4	Luciferase reporter assay
Up	hsa-miR-10a-3p	BTRC	Luciferase reporter assay
Up	hsa-miR-218-5p	KIT	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-429	IL4	Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-335-3p	ESR1	Next Generation Sequencing (NGS) ; qRT-PCR ; Western blot
Up	hsa-miR-218-5p	VPS51	ELISA ; Immunohistochemistry ; qRT-PCR ; Western blot
Up	hsa-miR-215-5p	SIGLEC8	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-142-3p	PRKCA	Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	HMGCR	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-22-5p	YWHAZ	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-142-3p	THBS4	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	TNFAIP3	Luciferase reporter assay ; Western blot
Up	hsa-miR-217	YWHAQ	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-106b-5p	PTENP1	Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-335-3p	PAX6	Luciferase reporter assay ; Western blot
Up	hsa-miR-15a-5p	CDKN2B	Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-142-5p	Becn1	Luciferase reporter assay
Up	hsa-miR-142-5p	BACH2	Luciferase reporter assay
Up	hsa-miR-29b-3p	MEN1	Luciferase reporter assay
Up	hsa-miR-217	PTPN14	Luciferase reporter assay ; qRT-PCR ; Western blot

Up	hsa-miR-429	CRKL	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-429	CRKL	Luciferase reporter assay
Up	hsa-miR-19b-3p	PITX1	Luciferase reporter assay ; Western blot
Up	hsa-miR-144-5p	RUNX1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-144-5p	TGIF1	Immunofluorescence ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-136-5p	RASAL2	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-15a-5p	BDNF	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-126-5p	CRK	2-D Gel Electrophoresis (2DGE) ; ELISA ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-98-5p	SALL4	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-1-3p	CXCL12	qRT-PCR ; Western blot
Up	hsa-miR-98-5p	CTNND1	Luciferase reporter assay
Up	hsa-miR-98-5p	SLC31A1	Luciferase reporter assay
Up	hsa-miR-20a-5p	PTPRO	Luciferase reporter assay
Up	hsa-miR-20a-5p	PPP2R2A	Luciferase reporter assay
Up	hsa-miR-29b-3p	LRP6	Luciferase reporter assay
Up	hsa-miR-29b-3p	PATZ1	Luciferase reporter assay
Up	hsa-miR-15a-5p	IL10RA	Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-29b-3p	AKT3	Luciferase reporter assay
Up	hsa-miR-215-5p	KDM1B	ChIP-seq ; Luciferase reporter assay ; Microarray ; qRT-PCR
Up	hsa-miR-217	DNMT1	Luciferase reporter assay
Up	hsa-miR-106b-5p	CYBB	ELISA ; Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-106b-5p	TNFRSF10A	Flow ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-217	MTDH	Immunofluorescence ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-126-5p	CYLD	ELISA ; Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-218-5p	RPS6KB1	ChIP-seq ; Immunofluorescence ; Immunohistochemistry ; Luciferase reporter assay ; Mass spectrometry ; Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-15b-3p	CCND3	Western blot

Up	hsa-miR-144-5p	ROCK1	qRT-PCR ; Western blot
Up	hsa-miR-144-5p	ROCK1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-15a-5p	TNFAIP1	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-552-5p	NSMF	Luciferase reporter assay ; Western blot
Up	hsa-miR-106b-5p	TNFSF11	ELISA ; Immunofluorescence ; Immunohistochemistry ; In situ hybridization ; Luciferase reporter assay ; Microarray ; Northern blot ; qRT-PCR ; Western blot
Up	hsa-miR-144-5p	CCNE1	Luciferase reporter assay ; Microarray ; qRT-PCR
Up	hsa-miR-374b-5p	WNT16	Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Up	hsa-miR-429	MALAT1	Luciferase reporter assay ; qRT-PCR
Up	hsa-miR-20a-5p	DAPK3	GFP reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-374a-3p	AXIN2	Luciferase reporter assay ; qRT-PCR ; Western blot
Up	hsa-miR-218-5p	BCL9	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-504-5p	DRD1	Luciferase reporter assay
Down	hsa-miR-485-3p	NTRK3	Luciferase reporter assay
Down	hsa-miR-326	GLI1	Luciferase reporter assay
Down	hsa-miR-1296-5p	MCM2	qRT-PCR ; Western blot
Down	hsa-miR-328-3p	CD44	Luciferase reporter assay ; Reporter assay;Other
Down	hsa-miR-328-3p	CD44	Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-205-5p	LRP1	qRT-PCR ; Luciferase reporter assay ; Western blot
Down	hsa-miR-433-3p	GRB2	Luciferase reporter assay ; Western blot
Down	hsa-miR-133a-3p	CACNA1C	Luciferase reporter assay ; Western blot
Down	hsa-miR-605-5p	SEC24D	qRT-PCR ; Western blot
Down	hsa-miR-433-3p	FGF20	Luciferase reporter assay ; Western blot
Down	hsa-miR-129-5p	CAMTA1	Luciferase reporter assay
Down	hsa-miR-129-5p	AGO3	Luciferase reporter assay
Down	hsa-miR-133a-3p	KCNQ1	Luciferase reporter assay ; Western blot ; 5'RACE ; Real time RT-PCR
Down	hsa-miR-205-5p	INPPL1	Western blot ; Luciferase reporter assay ; Northern blot ; Reporter assay;Western blot;Other
Down	hsa-miR-205-5p	MED1	Luciferase reporter assay ; Western blot
Down	hsa-miR-205-5p	MED1	qRT-PCR ; Western blot
Down	hsa-miR-205-5p	ERBB3	Luciferase reporter assay ; Reporter assay;Other
Down	hsa-miR-205-5p	ERBB3	Luciferase reporter assay

Down	hsa-miR-205-5p	ERBB3	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-205-5p	ERBB3	Luciferase reporter assay ; Microarray ; Western blot
Down	hsa-miR-205-5p	ERBB3	Western blot ; qRT-PCR
Down	hsa-miR-491-5p	BCL2L1	Luciferase reporter assay ; Western blot
Down	hsa-miR-491-5p	BCL2L1	Flow cytometry ; GFP reporter ; QRT-PCR ; Western blot
Down	hsa-miR-491-5p	BCL2L1	Luciferase reporter assay
Down	hsa-miR-184	INPPL1	Luciferase reporter assay
Down	hsa-miR-326	NOTCH1	Western blot ; Luciferase reporter assay
Down	hsa-miR-326	NOTCH2	Western blot ; Luciferase reporter assay
Down	hsa-miR-483-3p	BBC3	qRT-PCR ; Luciferase reporter assay ; Western blot ; Northern blot
Down	hsa-miR-483-3p	BBC3	Microarray ; qRT-PCR ; Western blot
Down	hsa-miR-296-5p	WNK4	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-23b-5p	PRODH	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-326	MSH3	Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Down	hsa-miR-133a-3p	KCNH2	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-296-5p	HGS	Luciferase reporter assay ; Western blot
Down	hsa-miR-296-5p	HGS	qRT-PCR ; Western blot
Down	hsa-miR-632	PRDX6	qRT-PCR ; Western blot
Down	hsa-miR-184	NFATC2	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-129-5p	NOTCH1	Luciferase reporter assay ; Microarray
Down	hsa-miR-129-5p	NOTCH1	Luciferase reporter assay ; qRT-PCR
Down	hsa-miR-1226-3p	MUC1	Immunoblot ; Luciferase reporter assay ; qRT-PCR
Down	hsa-miR-326	PKM	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-205-5p	IL24	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-205-5p	IL24	Luciferase reporter assay
Down	hsa-miR-485-3p	NFYB	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-616-3p	TFPI2	In situ hybridization ; Luciferase reporter assay ; Microarray ; qRT-PCR
Down	hsa-miR-383-5p	DIO1	Luciferase reporter assay ; qRT-PCR ; Western blot

Down	hsa-miR-483-5p	SRF	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-483-5p	MAPK3	Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Down	hsa-miR-483-5p	MAPK3	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-1228-3p	MOAP1	qRT-PCR ; Western blot
Down	hsa-miR-296-5p	SCRIB	Luciferase reporter assay
Down	hsa-miR-328-3p	PTPRJ	qRT-PCR ; Western blot
Down	hsa-miR-383-5p	IRF1	Flow ; Immunofluorescence ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-296-5p	IKBKE	Luciferase reporter assay
Down	hsa-miR-133a-3p	MSN	qRT-PCR ; Western blot
Down	hsa-miR-296-5p	BBC3	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-483-3p	PARD3	qRT-PCR ; Western blot
Down	hsa-miR-125a-3p	GPC4	Luciferase reporter assay
Down	hsa-miR-205-5p	EGLN2	Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Down	hsa-miR-642a-5p	DOHH	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-205-5p	TP73	qRT-PCR ; Western blot
Down	hsa-miR-205-5p	CYR61	Western blot
Down	hsa-miR-205-5p	CTGF	Western blot
Down	hsa-miR-296-3p	KCNH1	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-615-3p	LCOR	Luciferase reporter assay
Down	hsa-miR-133a-3p	VKORC1	Luciferase reporter assay
Down	hsa-miR-490-3p	ERGIC3	GFP reporter assay
Down	hsa-miR-205-5p	LRRK2	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-760	CSNK2A1	Immunoblot ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-1270	FXN	Luciferase reporter assay
Down	hsa-miR-383-5p	PRDX3	Luciferase reporter assay
Down	hsa-miR-363-3p	PDPN	Luciferase reporter assay
Down	hsa-miR-616-3p	PON1	Luciferase reporter assay
Down	hsa-miR-433-3p	CFTR	Luciferase reporter assay
Down	hsa-miR-129-5p	FMR1	Luciferase reporter assay
Down	hsa-miR-133a-3p	PRDM16	Luciferase reporter assay
Down	hsa-miR-133a-3p	PRDM16	Luciferase reporter assay
Down	hsa-miR-605-5p	MDM2	Reporter assay;Western blot
Down	hsa-miR-326	CD9	Western blot;qRT-PCR

Down	hsa-miR-328-3p	H2AFX	Reporter assay;Western blot;qRT-PCR
Down	hsa-miR-133a-3p	ARPC5	Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Down	hsa-miR-133a-3p	FTL	Immunocytochemistry ; Western blot
Down	hsa-miR-133a-3p	GSTP1	Reporter assay;Microarray
Down	hsa-miR-205-5p	YES1	Reporter assay
Down	hsa-miR-205-5p	SRC	Reporter assay
Down	hsa-let-7e-3p	COP58	Western blot
Down	hsa-let-7e-3p	GPS1	Western blot
Down	hsa-let-7e-3p	COP56	Western blot
Down	hsa-miR-760	HIST1H3D	Luciferase reporter assay ; Microarray ; Next Generation Sequencing (NGS) ; qRT-PCR ; Western blot
Down	hsa-miR-149-5p	FOXM1	Luciferase reporter assay ; Western blot
Down	hsa-miR-149-5p	FOXM1	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-133a-3p	BCL2L1	Luciferase reporter assay ; Western blot
Down	hsa-miR-133a-3p	BCL2L1	ChIP-seq ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-328-3p	MMP16	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-1228-3p	CSNK2A2	Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-543	PTK2	Luciferase reporter assay ; Western blot
Down	hsa-miR-3928-3p	DICER1	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-486-3p	BCL11A	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-133a-3p	RFFL	Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Down	hsa-miR-205-5p	SMAD1	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-551a	PTP4A3	qRT-PCR ; Western blot
Down	hsa-miR-149-5p	ZBTB2	Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-363-3p	HIVEP1	GFP reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-760	HIST1H2AD	Luciferase reporter assay ; Microarray ; Next Generation Sequencing (NGS) ; qRT-PCR ; Western blot
Down	hsa-miR-320c	SMARCC1	Immunohistochemistry ; Microarray ; qRT-PCR ; Western blot ; Immunocytochemistry ; Luciferase reporter assay

Down	hsa-miR-205-5p	YY1	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-483-5p	FAM160B2	Immunoblot ; Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR
Down	hsa-miR-205-5p	PTPRM	Immunohistochemistry ; Luciferase reporter assay ; Microarray ; QRT-PCR
Down	hsa-miR-129-5p	BDKRB2	Luciferase reporter assay ; qRT-PCR
Down	hsa-miR-129-5p	ABCC5	Immunohistochemistry ; Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Down	hsa-miR-129-5p	ABCG1	Immunohistochemistry ; Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Down	hsa-miR-296-5p	CDX1	Immunohistochemistry ; Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Down	hsa-miR-139-5p	CXCR4	ChIP-seq ; Flow ; Immunohistochemistry ; In situ hybridization ; Luciferase reporter assay ; Microarray ; Northern blot ; qRT-PCR ; Western blot
Down	hsa-miR-139-5p	CXCR4	Immunohistochemistry ; In situ hybridization ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-205-5p	AR	Immunoprecipitation ; In situ hybridization ; Luciferase reporter assay ; Microarray ; QRT-PCR ; Western blot
Down	hsa-miR-485-3p	SLC40A1	Luciferase reporter assay ; QRT-PCR ; Western blot
Down	hsa-miR-139-5p	JUN	ChIP-seq ; Flow ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-490-3p	SMARCD1	ChIP-seq ; Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Down	hsa-miR-187-3p	TNF	Immunoblot ; Luciferase reporter assay ; qRT-PCR
Down	hsa-miR-205-5p	BCL6	Luciferase reporter assay ; Western blot
Down	hsa-miR-139-5p	NR5A2	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-320c	GNAI1	Luciferase reporter assay ; Western blot ; Immunohistochemical (IHC) staining
Down	hsa-miR-184	SOX7	Flow ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-205-5p	ACSL4	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-149-5p	GIT1	Immunofluorescence ; Immunohistochemistry ; Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot

Down	hsa-miR-296-3p	ICAM1	Flow ; Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-328-3p	SFRP1	Immunohistochemistry ; Luciferase reporter assay ; Western blot
Down	hsa-miR-139-5p	NOTCH1	Luciferase reporter assay ; Western blot
Down	hsa-miR-139-5p	NOTCH1	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-139-5p	NOTCH1	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-205-5p	ITGA5	Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-485-5p	HIF3A	Luciferase reporter assay ; Western blot ; qRT-PCR
Down	hsa-miR-139-5p	RAP1B	Luciferase reporter assay ; Western blot ; qRT-PCR
Down	hsa-miR-205-5p	ACSL1	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-149-5p	GPC1	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-125a-3p	MTA1	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-125a-3p	MTA1	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-543	MTA1	Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-133a-3p	UBA2	In situ hybridization ; Microarray ; qRT-PCR ; Luciferase reporter assay ; Western blot
Down	hsa-miR-125a-3p	PRDM1	Chromatin immunoprecipitation ; Microarray ; qRT-PCR ; Western blot
Down	hsa-miR-125b-1-3p	S1PR1	Luciferase reporter assay ; Western blot ; qRT-PCR
Down	hsa-miR-363-3p	S1PR1	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-433-3p	GBP2	Luciferase reporter assay ; Microarray ; qRT-PCR
Down	hsa-miR-1271-5p	GPC3	Western blot
Down	hsa-miR-133a-3p	MMP14	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-205-5p	HMGB3	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-485-3p	MAT1A	Luciferase reporter assay
Down	hsa-miR-490-3p	PAPPA	ChIP-seq ; ELISA ; Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot

Down	hsa-miR-125a-3p	RHOA	Immunofluorescence ; Luciferase reporter assay ; qRT-PCR
Down	hsa-miR-125a-3p	RHOA	Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Down	hsa-miR-205-5p	ESRRG	Luciferase reporter assay
Down	hsa-miR-483-3p	RASGRF1	Immunoblot ; Immunofluorescence ; Immunoprecipitation ; Luciferase reporter assay ; qRT-PCR
Down	hsa-miR-184	AGO2	Luciferase reporter assay
Down	hsa-miR-184	AGO2	Luciferase reporter assay ; Western blot
Down	hsa-miR-133a-3p	SNX30	In situ hybridization ; Microarray ; qRT-PCR ; Luciferase reporter assay ; Western blot
Down	hsa-miR-133a-3p	SGMS2	In situ hybridization ; Microarray ; qRT-PCR ; Luciferase reporter assay ; Western blot
Down	hsa-miR-485-5p	APOA5	Luciferase reporter assay
Down	hsa-miR-149-5p	MYD88	ELISA ; qRT-PCR ; Western blot
Down	hsa-miR-326	NOB1	Luciferase reporter assay
Down	hsa-miR-326	NOB1	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-125b-1-3p	TACSTD2	Luciferase reporter assay
Down	hsa-miR-766-3p	BAX	Flow ; Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Down	hsa-miR-491-5p	GIT1	Immunofluorescence ; Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-383-5p	PPP1R10	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-139-5p	FAM162A	Luciferase reporter assay
Down	hsa-miR-433-3p	TYMS	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-605-5p	PSMD10	Luciferase reporter assay ; Western blot
Down	hsa-miR-184	EZR	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-149-5p	PTGER2	ELISA ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-326	CD274	Luciferase reporter assay ; qRT-PCR
Down	hsa-miR-639	FOXC1	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-139-5p	RHOT1	Luciferase reporter assay
Down	hsa-miR-139-5p	ZHX2	Luciferase reporter assay
Down	hsa-miR-139-5p	NFKB1	Luciferase reporter assay
Down	hsa-miR-139-5p	HRAS	Luciferase reporter assay

Down	hsa-miR-433-3p	AZIN1	ChIP-seq ; Immunohistochemistry ; In situ hybridization ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-149-5p	BBC3	Immunofluorescence ; Luciferase reporter assay ; Northern blot ; qRT-PCR ; Western blot
Down	hsa-miR-205-5p	KCNJ10	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-187-3p	CD276	Luciferase reporter assay ; qRT-PCR
Down	hsa-miR-133a-3p	PDLIM5	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-636	SLC25A5	Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Down	hsa-miR-205-5p	EZR	Luciferase reporter assay ; Microarray
Down	hsa-miR-125a-3p	IL23R	Flow ; Luciferase reporter assay ; qRT-PCR
Down	hsa-miR-184	SND1	qRT-PCR ; Luciferase reporter assay ; Immunofluorescence ; Immunohistochemistry ; Western blot
Down	hsa-miR-205-5p	LMNA	Luciferase reporter assay ; Microarray
Down	hsa-miR-551a	CKB	Luciferase reporter assay ; qRT-PCR ;
Down	hsa-miR-323a-3p	SMAD2	Immunoprecipitation ; Luciferase reporter assay ; Western blot
Down	hsa-miR-485-5p	FLOT1	Luciferase reporter assay ; Western blot ; qRT-PCR
Down	hsa-miR-149-5p	FGF21	Western blot
Down	hsa-miR-485-3p	PPARGC1A	Luciferase reporter assay
Down	hsa-miR-485-5p	PPARGC1A	Luciferase reporter assay
Down	hsa-miR-187-3p	BCL6	Luciferase reporter assay
Down	hsa-miR-187-3p	BCL6	Luciferase reporter assay
Down	hsa-miR-342-5p	ENG	Luciferase reporter assay
Down	hsa-miR-139-5p	OIP5	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-139-5p	ACTC1	Luciferase reporter assay
Down	hsa-miR-149-5p	MTHFR	Immunoblot ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-1271-5p	FOXQ1	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-326	FGF1	Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-139-5p	ADGRL4	Luciferase reporter assay ; Western blot
Down	hsa-miR-139-5p	SMARCA4	Northern blot ; qRT-PCR ; Western blot
Down	hsa-miR-139-5p	TPD52	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-491-5p	IGF2BP1	Luciferase reporter assay

Down	hsa-miR-150-3p	CCR6	Western blot
Down	hsa-miR-490-3p	ABCC2	Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-129-5p	WNT4	Luciferase reporter assay ; Western blot
Down	hsa-miR-296-5p	PLK1	Luciferase reporter assay ; Western blot
Down	hsa-miR-125a-3p	GIT1	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-363-3p	NOTCH1	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-342-5p	NAA10	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-125b-1-3p	SGPL1	ELISA ; Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-133a-3p	CTGF	Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-483-5p	CKB	Luciferase reporter assay ; qRT-PCR ;
Down	hsa-miR-184	GAS1	qRT-PCR ; Western blot
Down	hsa-miR-490-3p	TGFA	Luciferase reporter assay
Down	hsa-miR-383-5p	ATR	Immunofluorescence ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-483-3p	SRF	Luciferase reporter assay
Down	hsa-miR-129-5p	PDPK1	Luciferase reporter assay
Down	hsa-miR-363-3p	REG4	B-globin reporter assay ; Immunoblot ; Luciferase reporter assay ; qRT-PCR
Down	hsa-miR-205-5p	PRDX2	2-D Gel Electrophoresis (2DGE) ; qRT-PCR ; Western blot
Down	hsa-miR-184	PLPP3	Immunoblot ; Luciferase reporter assay ; qRT-PCR
Down	hsa-miR-133a-3p	LDLRAP1	Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-490-3p	RHOA	Immunohistochemistry ; Luciferase reporter assay ; Western blot
Down	hsa-miR-125a-3p	IRF4	Chromatin immunoprecipitation ; Microarray ; qRT-PCR ; Western blot
Down	hsa-miR-125a-3p	XBP1	Chromatin immunoprecipitation ; Microarray ; qRT-PCR ; Western blot
Down	hsa-miR-320c	PRDM1	Chromatin immunoprecipitation ; Microarray ; qRT-PCR ; Western blot
Down	hsa-miR-320c	XBP1	Chromatin immunoprecipitation ; Microarray ; qRT-PCR ; Western blot
Down	hsa-miR-320c	IRF4	Chromatin immunoprecipitation ; Microarray ; qRT-PCR ; Western blot
Down	hsa-miR-210-5p	SMR3B	qRT-PCR ; Western blot

Down	hsa-miR-125b-1-3p	BIK	Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Down	hsa-miR-125b-1-3p	MTFP1	Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Down	hsa-miR-150-3p	CTNNB1	Immunoblot ; Luciferase reporter assay ; qRT-PCR
Down	hsa-miR-486-3p	ECM1	Luciferase reporter assay
Down	hsa-miR-139-3p	NOB1	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-486-3p	MAF	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-184	BIN3	Luciferase reporter assay
Down	hsa-miR-184	PRKCB	Luciferase reporter assay
Down	hsa-miR-218-1-3p	PIK3C2A	qRT-PCR ; Western blot ; MTT
Down	hsa-miR-490-3p	PCBP1	Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-543	FBXO11	Immunohistochemistry ; In situ hybridization ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-891a-5p	NFKBIA	Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Down	hsa-miR-363-3p	FBXW7	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-129-5p	IGF2BP3	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-129-5p	MAPK1	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-125b-1-3p	BGLAP	Microarray ; qRT-PCR ; Western blot
Down	hsa-miR-125b-1-3p	FRZB	Microarray ; qRT-PCR ; Western blot
Down	hsa-miR-133a-3p	AFTPH	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-129-5p	MCRS1	qRT-PCR ; Western blot
Down	hsa-miR-129-5p	VIM	qRT-PCR ; Western blot
Down	hsa-miR-129-5p	CDH1	qRT-PCR ; Western blot
Down	hsa-miR-3940-5p	USP28	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-23a-5p	APAF1	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-485-5p	STC2	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-654-5p	EPSTI1	Luciferase reporter assay ; qRT-PCR ; Western blot

Down	hsa-miR-23a-5p	LAMP1	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-503-3p	L1CAM	Luciferase reporter assay ; Western blot ; mtt
Down	hsa-miR-1254	CCAR1	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-125b-1-3p	MAP2K7	Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-187-3p	CRMP1	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-296-3p	CX3CR1	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-491-5p	CAPNS1	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-187-3p	FOXA2	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-503-3p	SMAD2	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-193b-5p	STMN1	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-129-5p	BECN1	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-149-5p	FASLG	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-129-5p	FNDC3A	Luciferase reporter assay ; Western blot
Down	hsa-miR-125a-3p	NRG1	Luciferase reporter assay ; Western blot
Down	hsa-miR-184	PPP1R13L	Luciferase reporter assay
Down	hsa-miR-491-5p	KDM4B	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-328-3p	KCNH2	Luciferase reporter assay ; Western blot
Down	hsa-miR-139-5p	PDE4D	Immunoblot ; Luciferase reporter assay ; qRT-PCR
Down	hsa-miR-205-5p	SMAD2	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-1228-5p	MIF	ELISA ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-133a-3p	Foxl2	Luciferase reporter assay ; Western blot
Down	hsa-miR-139-5p	WNT1	Luciferase reporter assay ; Western blot
Down	hsa-miR-205-5p	UVRAG	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-205-5p	CENPF	Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-486-3p	SYK	qRT-PCR ; Western blot
Down	hsa-miR-296-3p	STAT5A	Immunoprecipitaion ; Luciferase reporter assay

Down	hsa-miR-486-3p	PRKCD	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-383-5p	PICRAR	Luciferase reporter assay
Down	hsa-miR-187-3p	S100A4	Immunofluorescence ; Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-139-5p	MMP11	Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Down	hsa-miR-139-3p	MMP11	Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot
Down	hsa-miR-125b-1-3p	ITGA9	qRT-PCR ; Western blot
Down	hsa-miR-877-3p	IL1B	Luciferase reporter assay
Down	hsa-miR-381-5p	NEFL	Immunoblot ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-1271-5p	CCNG1	Luciferase reporter assay ; Western blot
Down	hsa-miR-383-5p	TNFSF13	ELISA ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-491-5p	SLC6A3	GFP reporter assay ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-483-3p	CTGF	Luciferase reporter assay
Down	hsa-miR-320c	NOD2	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-381-5p	HES1	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-150-3p	RPL11	Luciferase reporter assay ; qRT-PCR ; Western blot ; Immuno-precipitation
Down	hsa-miR-296-5p	KDR	qRT-PCR ; Western blot
Down	hsa-miR-296-5p	DLL4	qRT-PCR ; Western blot
Down	hsa-miR-296-5p	NOTCH1	qRT-PCR ; Western blot
Down	hsa-miR-149-5p	PPM1F	Luciferase reporter assay ; Western blot
Down	hsa-miR-133a-3p	RBPJ	Luciferase reporter assay ; Western blot
Down	hsa-miR-296-5p	NGFR	Immunoprecipitation ; Luciferase reporter assay ; qRT-PCR
Down	hsa-miR-133a-3p	NGFR	Luciferase reporter assay
Down	hsa-miR-326	BCL2L1	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-184	TNFAIP2	Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-210-5p	CFB	Luciferase reporter assay ; Western blot
Down	hsa-miR-205-5p	SATB2	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-483-5p	RHOA	Luciferase reporter assay ; Microarray ; qRT-PCR ; Western blot

Down	hsa-miR-483-3p	EI24	Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-184	PKM	Immunocytochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-363-3p	GAP43	Immunohistochemistry ; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-485-3p	PBRM1	Luciferase reporter assay ; qRT-PCR ; Western blot ; immunosorbent
Down	hsa-miR-328-3p	PLCE1	; Luciferase reporter assay ; qRT-PCR ; Western blot
Down	hsa-miR-1229-3p	SORL1	Luciferase reporter assay ; qRT-PCR ; Western blot

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