

Supplementary Table S1 Target relationship between differential lncRNAs and miRNAs

<b>miRNA</b>	<b>lncRNA</b>
hsa-miR-101-3p	C4orf38, SNHG3, DIRC3, HCG11
hsa-miR-103a-3p	C14orf64, HAR1A, UCA1, C8orf12
hsa-miR-106a-5p	DIO3OS, SNHG10, C14orf64, SNHG3, C8orf12, C12orf36, HCG11
hsa-miR-106b-5p	C14orf64, SNHG3, HCG11, C8orf12, C12orf36
hsa-miR-107	C14orf64, HAR1A, UCA1, C8orf12
hsa-miR-10a-5p	DIO3OS, C8orf51, SNHG3, DIRC3
hsa-miR-10b-5p	DIO3OS, C8orf51, SNHG3, DIRC3
hsa-miR-124-3p	DIO3OS, SNHG10, C14orf64, UCA1, C8orf12
hsa-miR-125a-5p	DIO3OS, C4orf38, C14orf64, DIRC3, HAR1A
hsa-miR-125b-5p	DIO3OS, C4orf38, C14orf64, DIRC3, HAR1A
hsa-miR-128-3p	C14orf64, SNHG3, C1orf133, DSCR8
hsa-miR-129-5p	C14orf64, SNHG3, HCG11, UCA1, DSCR8, C12orf36
hsa-miR-130a-3p	C14orf64
hsa-miR-133a-3p	DIO3OS, DIRC3
hsa-miR-133b	DIO3OS, DIRC3
hsa-miR-135a-5p	C14orf64, SNHG3, UCA1, C12orf36
hsa-miR-135b-5p	C14orf64, SNHG3, UCA1, C12orf36
hsa-miR-137	C14orf64, DSCR8
hsa-miR-138-5p	DIO3OS, C4orf38, UCA1, C12orf36
hsa-miR-140-5p	DIRC3, C12orf36
hsa-miR-141-3p	SNHG3, C8orf12, C12orf36
hsa-miR-142-3p	C4orf38, C14orf64, DIRC3
hsa-miR-142-5p	C4orf38, C14orf64, DIRC3
hsa-miR-143-3p	DIO3OS, C8orf51, C14orf64, HCG11, UCA1
hsa-miR-144-3p	C4orf38, C14orf64, DIRC3, HCG11
hsa-miR-145-5p	DIRC3, C8orf12, C12orf36
hsa-miR-148a-3p	C14orf64, SNHG3, DSCR8
hsa-miR-148b-3p	C14orf64, SNHG3, DSCR8
hsa-miR-152-3p	C14orf64, SNHG3, DSCR8
hsa-miR-153-3p	C14orf64, DSCR8
hsa-miR-155-5p	DIRC3, HCG11, C12orf36
hsa-miR-15a-5p	C14orf64, DIRC3, C1orf133, C8orf12
hsa-miR-15b-5p	C14orf64, DIRC3, C1orf133, C8orf12
hsa-miR-16-5p	C14orf64, DIRC3, C1orf133, C8orf12
hsa-miR-17-5p	C14orf64, SNHG3, HCG11, C8orf12, C12orf36
hsa-miR-181a-5p	DIO3OS, HCG11, DSCR8
hsa-miR-181b-5p	DIO3OS, HCG11, DSCR8
hsa-miR-181c-5p	DIO3OS, HCG11, DSCR8
hsa-miR-182-5p	SNHG10, SNHG3, UCA1, C12orf36
hsa-miR-183-5p	DIRC3, C12orf36

<b>hsa-miR-18a-5p</b>	DIO3OS, UCA1
<b>hsa-miR-195-5p</b>	C14orf64, DIRC3, C1orf133, C8orf12
<b>hsa-miR-196a-5p</b>	C8orf51, SNHG3, HCG11
<b>hsa-miR-196b-5p</b>	C8orf51, SNHG3, HCG11
<b>hsa-miR-199a-3p</b>	DIO3OS, SNHG9, C8orf51, C14orf64, DIRC3
<b>hsa-miR-199a-5p</b>	DIO3OS, SNHG9, C8orf51, C14orf64, DIRC3
<b>hsa-miR-199b-5p</b>	DIO3OS, SNHG9, C8orf51, C14orf64, DIRC3
<b>hsa-miR-19a-3p</b>	DIO3OS, C14orf64, SNHG3, DIRC3, C12orf36
<b>hsa-miR-19b-3p</b>	DIO3OS, C14orf64, SNHG3, DIRC3, C12orf36
<b>hsa-miR-200a-3p</b>	SNHG3, C8orf12, C12orf36
<b>hsa-miR-200b-3p</b>	DIRC3
<b>hsa-miR-200c-3p</b>	DIRC3
<b>hsa-miR-204-5p</b>	DIO3OS, DIRC3, HCG11, C1orf133, C8orf12
<b>hsa-miR-205-5p</b>	C8orf51, C4orf38, HCG11, SNHG3, DIRC3, DSCR8
<b>hsa-miR-206</b>	DIO3OS, UCA1, SNHG3, DIRC3, C12orf36
<b>hsa-miR-20a-5p</b>	C14orf64, SNHG3, HCG11, C8orf12, C12orf36
<b>hsa-miR-20b-5p</b>	C14orf64, SNHG3, HCG11, C8orf12, C12orf36
<b>hsa-miR-211-5p</b>	DIO3OS, DIRC3, HCG11, C1orf133, C8orf12
<b>hsa-miR-212-3p</b>	C12orf36
<b>hsa-miR-217</b>	DIO3OS, SNHG10, C14orf64, HCG11, C1orf133
<b>hsa-miR-218-5p</b>	DIO3OS, C8orf51, C14orf64, DIRC3, HCG11
<b>hsa-miR-22-3p</b>	C4orf38, C14orf64, HAR1A, DSCR8, C12orf36
<b>hsa-miR-221-3p</b>	DIO3OS, C14orf64, SNHG3, C12orf36
<b>hsa-miR-222-3p</b>	DIO3OS, C14orf64, SNHG3, C12orf36
<b>hsa-miR-223-3p</b>	C1orf133, C8orf12, C12orf36
<b>hsa-miR-23a-3p</b>	C14orf64, UCA1, C8orf12
<b>hsa-miR-23b-3p</b>	C14orf64, UCA1, C8orf12
<b>hsa-miR-24-3p</b>	DIO3OS, C8orf51, SNHG10, C14orf64, SNHG3, DIRC3, HCG11, HAR1A
<b>hsa-miR-25-3p</b>	C14orf64, C8orf12
<b>hsa-miR-26a-5p</b>	C4orf38, C14orf64, DIRC3, HCG11, UCA1, C12orf36
<b>hsa-miR-26b-5p</b>	C4orf38, C14orf64, DIRC3, HCG11, UCA1, C12orf36
<b>hsa-miR-27a-3p</b>	DIO3OS, HAR1A, C1orf133, DSCR8
<b>hsa-miR-27b-3p</b>	DIO3OS, HAR1A, C1orf133, DSCR8
<b>hsa-miR-29a-3p</b>	SNHG10, C14orf64, DIRC3, C8orf12, C12orf36
<b>hsa-miR-29b-3p</b>	SNHG10, C14orf64, DIRC3, C8orf12, C12orf36
<b>hsa-miR-29c-3p</b>	SNHG10, C14orf64, DIRC3, C8orf12, C12orf36
<b>hsa-miR-301a-3p</b>	C14orf64
<b>hsa-miR-302d-3p</b>	DIO3OS, SNHG10, C14orf64, SNHG3, C8orf12, C12orf36
<b>hsa-miR-32-5p</b>	C14orf64, C8orf12
<b>hsa-miR-33a-5p</b>	C14orf64, C8orf51, C12orf36
<b>hsa-miR-34a-5p</b>	DIO3OS, C8orf51, C4orf38, C14orf64
<b>hsa-miR-34c-5p</b>	DIO3OS, C8orf51, C4orf38, C14orf64
<b>hsa-miR-372-3p</b>	DIO3OS, SNHG10, C14orf64, SNHG3, C8orf12, C12orf36
<b>hsa-miR-373-3p</b>	DIO3OS, SNHG10, C14orf64, SNHG3, C8orf12, C12orf36

<b>hsa-miR-424-5p</b>	C14orf64, DIRC3, C1orf133, C8orf12
<b>hsa-miR-429</b>	DIRC3
<b>hsa-miR-449a</b>	DIO3OS, C8orf51, C4orf38, C14orf64
<b>hsa-miR-497-5p</b>	C14orf64, DIRC3, C1orf133, C8orf12
<b>hsa-miR-506-3p</b>	DIO3OS, SNHG10, C14orf64, UCA1, C8orf12
<b>hsa-miR-519d-3p</b>	C14orf64, SNHG3, HCG11, C8orf12, C12orf36
<b>hsa-miR-7-5p</b>	DIO3OS, C8orf51, DIRC3, HCG11, C12orf36
<b>hsa-miR-9-5p</b>	C14orf64, DIRC3, C1orf133, C12orf36
<b>hsa-miR-92a-3p</b>	C14orf64, C8orf12
<b>hsa-miR-93-5p</b>	DIO3OS, SNHG10, C14orf64, SNHG3, C8orf12, C12orf36, HCG11
<b>hsa-miR-96-5p</b>	SNHG10, C14orf64, DIRC3, UCA1, C12orf36
<b>hsa-miR-98-5p</b>	DIO3OS, DIRC3, HCG11, DSCR8

Supplementary Table S2 Target relationship between miRNA and differential mRNA

<b>miRNA</b>	<b>lncRNA</b>
<b>hsa-miR-101-3p</b>	TSHZ3, SOCS5, RAP2C, MYCN, MBNL1, EZH2, DUSP1, CACNB2, ATXN1
<b>hsa-miR-103a-3p</b>	ZFPM2, VCL, TSPAN5, TGFBR3, SYNJ1, SNRK, RUNX1T1, RNF38, RAP2C, RAB11FIP2, MBNL1, KIF23, FERMT2, CCNE1
<b>hsa-miR-106a-5p</b>	ZBTB4, TXNIP, SLITRK3, SAR1B, RBL2, RASSF2, PKD2, PBX3, NR4A3, NR4A2, KAT2B, FBXL5, EZH1, CRIM1, CFL2, ATXN1, ARID4A
<b>hsa-miR-106b-5p</b>	ZFPM2, ZBTB47, ZBTB4, TXNIP, TSHZ3, TNFRSF21, SMOC2, SLITRK3, SKI, SAR1B, RBL2, RAP2C, PKD2, PKD1, PBX3, NR4A3, NR4A2, NBEA, MYCN, MAP3K9, MAP3K3, KPNA2, KIF23, KAT2B, HLF, HBP1, FBXW11, FBXL5, EZH1, ELK3, DPYSL2, CRIM1, CHD9, CFL2, CALD1, ARID4A
<b>hsa-miR-107</b>	ZFPM2, VCL, TGFBR3, SYNJ1, SNRK, RUNX1T1, RNF38, RAP2C, RAB11FIP2, MBNL1, KIF23, FERMT2, CCNE1, CACNA2D1
<b>hsa-miR-10a-5p</b>	ZMYND11, TFAP2C, NR4A3, GATA6
<b>hsa-miR-10b-5p</b>	ZMYND11, TFAP2C, NR4A3, GATA6
<b>hsa-miR-124-3p</b>	ZCCHC24, VAMP3, RYR3, PALLD, NR3C2, MITF, MAPK14, ANTXR2
<b>hsa-miR-125a-5p</b>	STARD13, ARID3B
<b>hsa-miR-125b-5p</b>	TDG, STARD13, MAMDC2, LIFR, ARID3B
<b>hsa-miR-128-3p</b>	SYT1, SMARCA2, RNF38, RNF144A, PDE7B, MAPK14, CORO1C, CITED2
<b>hsa-miR-129-5p</b>	SOX4
<b>hsa-miR-130a-3p</b>	ZFPM2, RNF38, RAP2C, NPTN, MEMO1, MDFIC, MBNL1, HBP1, FOXF2, ELK3, E2F7, DPYSL2, CLIP1, CHD9, ATXN1, ADAM12, ABHD3
<b>hsa-miR-133a-3p</b>	MECOM, LHFP
<b>hsa-miR-133b</b>	SGMS2, RAP2C, MECOM, LHFP
<b>hsa-miR-135a-5p</b>	ROCK2, NR3C2, MEF2C, FOXO1, FOXN3
<b>hsa-miR-135b-5p</b>	NR3C2, FOXN3
<b>hsa-miR-137</b>	ZC3H6, TJP1, SYT1, SNRK, SLC30A4, RAP2C, PDE7A, NBEA, MS11, MITF, MBNL2, KCNMB2, INPP5A, HLF, ESRRA, CXCL12, CHD9
<b>hsa-miR-138-5p</b>	ZMYND11, ROCK2, PDE7B, NBEA, MACF1, KLF11, FERMT2, EZH2
<b>hsa-miR-140-5p</b>	PITX2

<b>hsa-miR-141-3p</b>	ZEB2, TSHZ3, CHD9, ATXN1
<b>hsa-miR-142-3p</b>	ZEB2, KAT2B, INPP5A
<b>hsa-miR-142-5p</b>	ZFPM2
<b>hsa-miR-143-3p</b>	IGFBP5
<b>hsa-miR-144-3p</b>	ZFX, ZEB2, NR2F2, MITF, MBNL2, MBNL1, FBXW11, DMD, CXCL12, ATXN1
<b>hsa-miR-145-5p</b>	PMP22, MDFIC, FLI1, AKAP12
<b>hsa-miR-148a-3p</b>	SYNJ1, S1PR1, RNF38, PDIA3, NPTN, MITF, MAP3K9
<b>hsa-miR-148b-3p</b>	ZDHHC17, SYNJ1, S1PR1, RNF38, NPTN, MITF, MAP3K9
<b>hsa-miR-152-3p</b>	ZDHHC17, TXNIP, SYNJ1, S1PR1, RNF38, PDIA3, NPTN, MITF, MAP3K9, KLF4, E2F7, DUSP1, DNMT1, CHD9, ATXN1
<b>hsa-miR-153-3p</b>	ZFPM2, SNCA, SLC5A1, SETD7, RYR3, ROCK2, NR3C2, NPTN, FOXO1, DMD, CITED2, ARID4A, ARF1, APC, ADD1
<b>hsa-miR-155-5p</b>	TSHZ3, RPS6KA3, FGF7
<b>hsa-miR-15a-5p</b>	USP25, TMEM55A, SYNJ1, SNRK, SESN1, RUNX1T1, RECK, RAP2C, PID1, MAP7, GRM7, FGF7, FGF2, FERMT2, E2F3, CDK17, CCNE1, BCL2L2, AKT3
<b>hsa-miR-15b-5p</b>	USP25, TMEM55A, SYNJ1, SNRK, SESN1, RUNX1T1, RECK, RAB11FIP2, PID1, MAP7, GRM7, FGF7, FGF2, FERMT2, ESRRA, E2F3, CDK17, CCNE1, CCND2, BCL2L2, AKT3
<b>hsa-miR-16-5p</b>	ZYX, USP25, TMEM55A, TGFBR3, TAB3, SYNJ1, SPRYD3, SNRK, SESN1, RUNX1T1, RSPO3, RECK, RAP2C, RAB11FIP2, PID1, MAP7, LATS2, KIF23, GRM7, GHR, FGF7, FGF2, FERMT2, ESRRA, E2F7, E2F3, CRIM1, CDK17, CCNE1, CCND2, BCL2L2, AKT3
<b>hsa-miR-17-5p</b>	ZFPM2, ZBTB4, TXNIP, TSHZ3, TNFRSF21, SOX4, SMOG2, SLITRK3, SKI, SAR1B, RBL2, RASSF2, RAPGEF4, RAP2C, RAB30, PKD2, PKD1, PBX3, NR4A3, NR4A2, NBEA, MYCN, MAP3K9, MAP3K3, LHX6, KPNA2, KIF23, KCNMA1, KAT2B, HLF, HBP1, FBXW11, FBXL5, ELK3, DPYSL2, CRIM1, CHD9, CFL2, CALD1, BNC2, ATXN1, ARID4A, AKT3
<b>hsa-miR-181a-5p</b>	NR4A3, ATXN1
<b>hsa-miR-181b-5p</b>	ATXN1
<b>hsa-miR-181c-5p</b>	NR4A3, ATXN1
<b>hsa-miR-182-5p</b>	VCL, VAMP3, PRKACB, PALLD, MITF, MBNL2, JAZF1, FOXN3, FOXF2, FBXW11, EPAS1, EBF3, CITED2
<b>hsa-miR-183-5p</b>	ITGB1
<b>hsa-miR-18a-5p</b>	CRIM1, ATXN1
<b>hsa-miR-195-5p</b>	USP25, TMEM55A, TGFBR3, TAB3, SYNJ1, SPRYD3, SNRK, SESN1, RUNX1T1, RSPO3, RECK, RAP2C, RAB11FIP2, PID1, MAP7, LATS2, GRM7, GHR, FGF7, FGF2, FERMT2, ESRRA, E2F7, E2F3, CRIM1, CDK17, CCNE1, CCND2, BCL2L2, AKT3
<b>hsa-miR-196a-5p</b>	ZMYND11, HOXB7, GATA6
<b>hsa-miR-196b-5p</b>	ZMYND11, HOXB7
<b>hsa-miR-199a-3p</b>	CITED2, CDK17
<b>hsa-miR-199a-5p</b>	SLC24A3
<b>hsa-miR-199b-5p</b>	SLC24A3

<b>hsa-miR-19a-3p</b>	ZMYND11, ZFPM2, UBL3, TSHZ3, SYT1, SOX4, SOCS1, SMOC2, SMARCA2, SLC24A3, S1PR1, RNF38, RAPGEF4, RAP2C, RAP1A, RAB8B, PRICKLE2, PPP1R12A, NBEA, NAV3, MEMO1, MBNL2, MBNL1, KCNA4, IVNS1ABP, IMPDH1, HBP1, FOXF2, ELK3, E2F8, CLIP1, BTG1, BNC2, ATXN1
<b>hsa-miR-19b-3p</b>	ZMYND11, ZFPM2, UBL3, TSHZ3, SYT1, SOX4, SOCS1, SMOC2, SMARCA2, SLC24A3, S1PR1, RNF38, RAPGEF4, RAP2C, RAP1A, RAB8B, PRICKLE2, PPP1R12A, NBEA, NAV3, MEMO1, MBNL1, KCNA4, IVNS1ABP, IMPDH1, HBP1, FOXF2, ELK3, E2F8, CLIP1, ATXN1, ACTN1
<b>hsa-miR-200a-3p</b>	ZEB2, TSHZ3, PITX2, MBNL1, H2AFZ, GATA6, E2F3, DNAJC13, CHD9, ATXN1
<b>hsa-miR-200b-3p</b>	ZFPM2, SEC23A, FEZ2, EPS8, DUSP1, CDK17
<b>hsa-miR-200c-3p</b>	ZEB2, ZEB1, SEC23A, FEZ2, EPS8, DUSP1, CDK17
<b>hsa-miR-204-5p</b>	ZCCHC24, RAP2C, NR3C1
<b>hsa-miR-205-5p</b>	RBM47
<b>hsa-miR-206</b>	TPM3, TIMP3, TAGLN2, SYT1, STC2, PRKACB, NR4A2, HSP90B1, HDAC4, CPEB1, CORO1C, AKAP11, ADPGK
<b>hsa-miR-20a-5p</b>	ZFPM2, TSHZ3, SLITRK3, SAR1B, RBL2, RAP2C, PBX3, NR4A3, NR4A2, NBEA, MAP3K9, KAT2B, HBP1, FBXW11, FBXL5, ELK3, CRIM1, CHD9, CFL2, CALD1, ARID4A
<b>hsa-miR-20b-5p</b>	ZBTB4, TXNIP, TNFRSF21, SAR1B, RBL2, PKD2, NR4A3, NBEA, MAP3K9, FBXL5, EZH1, CHD9, FL2, ARID4A
<b>hsa-miR-211-5p</b>	NR3C1
<b>hsa-miR-212-3p</b>	H2AFZ, CFL2
<b>hsa-miR-217</b>	UBL3, ANLN
<b>hsa-miR-218-5p</b>	ZEB2, SLCO5A1, RNF38, RAB8B, PRKG1, NMT2, NAV3, MAGI2, HLF, HAPLN1, EBF3, DNAJC13, ACTN1
<b>hsa-miR-219a-5p</b>	TSC22D2, SNRK
<b>hsa-miR-22-3p</b>	TAGLN, SNRK, NR3C1, MAPK14, ERBB3, CPEB1, CHD9, AKT3
<b>hsa-miR-221-3p</b>	NAP1L5, MAPK10
<b>hsa-miR-222-3p</b>	NAP1L5
<b>hsa-miR-223-3p</b>	HLF, CRIM1, CDK17
<b>hsa-miR-23a-3p</b>	PPIF, PDE7A, NACC2, CXCL12
<b>hsa-miR-23b-3p</b>	RUNX1T1, PPIF, PDE7A, NEK6, NACC2, CXCL12
<b>hsa-miR-24-3p</b>	RAP2C
<b>hsa-miR-25-3p</b>	ZEB2, SYNJ1, SOX4, S1PR1, ROBO2, RNF38, RBM47, RAB23, PPP1R12A, NPTN, MYCBP2, LATS2, KLF4, KAT2B, IQGAP2, GRHL1, GATA6, FZD10, FRY, FOXG1, DPP10, ADM
<b>hsa-miR-26a-5p</b>	YWHAE, STRBP, RAP2C, PPP3CB
<b>hsa-miR-26b-5p</b>	STRBP, RAP2C, E2F7
<b>hsa-miR-27a-3p</b>	TRIM23, RUNX1, RPN2, PPIF, NR2F6
<b>hsa-miR-27b-3p</b>	TRIM23, SLC25A25, PDS5B, PDE7B, NR2F6, NEDD4, EBF3, E2F7, DNAJC13
<b>hsa-miR-29a-3p</b>	TDG, RAB30, PMP22, NASP, IFI30, HBP1, FEM1B
<b>hsa-miR-29b-3p</b>	TDG, PMP22, NAV3, HBP1, FEM1B

<b>hsa-miR-29c-3p</b>	TDG, RAB30, RAB15, PMP22, NAV3, IFI30, HBP1, FERMT2, FEM1B, DNMT3A, COL7A1, ATXN1
<b>hsa-miR-301a-3p</b>	ZFPM2, S1PR1, RNF38, RAPGEF4, RAP2C, NPTN, MEMO1, MDFIC, MBNL1, HBP1, FOXF2, ELK3, E2F7, DPYSL2, CLIP1, CHD9, ATXN1, ADAM12
<b>hsa-miR-302d-3p</b>	EDNRB
<b>hsa-miR-32-5p</b>	ZEB2, TEAD1, SYNJ1, SOX4, S1PR1, RNF38, RBM47, RAB23, PPP1R12A, NPTN, MYCBP2, LATS2, KLF4, KAT2B, ITPR1, ITGAV, IQGAP2, HAND2, GRHL1, GATA6, FZD10, FRY, FOXN3, FOXG1, EPS8, DPP10, DMXL1
<b>hsa-miR-33a-5p</b>	SNRK
<b>hsa-miR-34a-5p</b>	ZDHHC17, SYT1, NAV3
<b>hsa-miR-34c-5p</b>	SYT1, NAV3
<b>hsa-miR-372-3p</b>	TXNIP, R4A3, LATS2, KAT2B
<b>hsa-miR-373-3p</b>	LATS2, EDNRB
<b>hsa-miR-424-5p</b>	PID1
<b>hsa-miR-429</b>	ZEB1, SEC23A
<b>hsa-miR-449a</b>	SYT1
<b>hsa-miR-497-5p</b>	CCNE1
<b>hsa-miR-506-3p</b>	VAMP3
<b>hsa-miR-519d-3p</b>	TXNIP, RBL2, NBEA
<b>hsa-miR-7-5p</b>	VDAC1, SNCA, NR4A3, KLF4, FOXN3, ATXN1, ARID4A
<b>hsa-miR-9-5p</b>	VCL, VAV3, TSC22D2, SYNJ1, SOCS5, SNRK, RANBP17, PDK4, NEDD4, MBNL1, MAP7, MAP3K3, KCTD12, KCNMB2, GOT1, FOXG1, DIO2, CRIM1, ATXN1
<b>hsa-miR-92a-3p</b>	TEAD1, SYNJ1, RBM47, RAB23, NR4A3, NPTN, MYCBP2, LATS2, KLF4, KAT2B, GRHL1, GATA6, FRY, DPP10
<b>hsa-miR-93-5p</b>	ZFPM2, TXNIP, TSHZ3, SLITRK3, SAR1B, RBL2, PBX3, NR4A3, NR4A2, NBEA, MYCN, MAP3K3, LHX6, KAT2B, HBP1, FBXL5, CRIM1, CHD9, CFL2, ARID4A
<b>hsa-miR-96-5p</b>	ZDHHC17, TTYH3, TACC1, SH3BP5, RAB23, PRKAR1A, MITF, ITPR1, INPP5A, HBEGF, GRHL2, FOXO1, FBXW11, EBF3, ATXN1
<b>hsa-miR-98-5p</b>	TSC22D2, PBX3, MYCN, KLF9, FRAS1, DUSP1, DMD, DLC1, CCNJ, CCND2, ARID3B, ADAMTS5

Supplementary Table S3 mRNA-miRNA-lncRNA interactions with mRNAs of oncogenes, tumor suppressor genes and apoptosis related genes

<b>mRNA</b>	<b>miRNA</b>	<b>lncRNA</b>
<b>Tumor suppressor genes</b>		
<b>APC</b>	hsa-miR-153-3p	C14orf64, DSCR8
<b>BTG1</b>	hsa-miR-19a-3p	C14orf64, SNHG3, C12orf36, DIRC3, DIO3OS
<b>LATS2</b>	hsa-miR-372-3p, hsa-miR-25-3p, hsa-miR-16-5p, hsa-miR-195-5p, hsa-miR-373-3p, hsa-miR-32-5p, hsa-miR-92a-3p	SNHG3, SNHG10, C12orf36, DIO3OS, C14orf64, C8orf12, DIRC3, C1orf133
<b>ROBO2</b>	hsa-miR-25-3p	C14orf64, C8orf12
<b>RUNX1</b>	hsa-miR-27a-3p	HAR1A, DSCR8, DIO3OS, C1orf133
<b>SOCS1</b>	hsa-miR-19b-3p, hsa-miR-19a-3p	C14orf64, DIO3OS, C12orf36, DIRC3, SNHG3
<b>TPM3</b>	hsa-miR-206	SNHG3, UCA1, C12orf36, DIO3OS, DIRC3
<b>YWHAE</b>	hsa-miR-26a-5p	C4orf38, HCG11, UCA1, C14orf64, DIRC3, C12orf36
<b>Oncogenes</b>		
<b>AKT3</b>	hsa-miR-17-5p, hsa-miR-16-5p, hsa-miR-22-3p, hsa-miR-15a-5p, hsa-miR-15b-5p, hsa-miR-195-5p	C8orf12, C14orf64, C12orf36, SNHG3, HCG11, DIRC3, C1orf133, C4orf38, DSCR8, HAR1A
<b>CCND2</b>	hsa-miR-15b-5p, HSA-MIR-98-5P, hsa-miR-195-5p, hsa-miR-16-5p	DIRC3, C1orf133, C8orf12, C14orf64
<b>CCNE1</b>	hsa-miR-15a-5p, hsa-miR-195-5p, hsa-miR-16-5p, hsa-miR-103a-3p, hsa-miR-497-5p, hsa-miR-15b-5p, hsa-miR-107	C8orf12, C14orf64, DIRC3, C1orf133, HAR1A, UCA1
<b>DNMT1</b>	hsa-miR-152-3p	DSCR8, C14orf64, SNHG3
<b>ERBB3</b>	hsa-miR-22-3p	C4orf38, DSCR8, HAR1A, C14orf64, C12orf36
<b>EZH2</b>	hsa-miR-138-5p, hsa-miR-101-3p	C4orf38, DIO3OS, C12orf36, UCA1, HCG11, SNHG3, DIRC3

<b>FLI1</b>	hsa-miR-145-5p	DIRC3, C12orf36, C8orf12
<b>HLF</b>	hsa-miR-137, hsa-miR-218-5p, hsa-miR-223-3p, hsa-miR-17-5p, hsa-miR-106b-5p	C14orf64, DSCR8, DIO3OS, DIRC3, HCG11, C8orf51, C1orf133, C12orf36, C8orf12, SNHG3
<b>KLF4</b>	hsa-miR-92a-3p, hsa-miR-32-5p, hsa-miR-25-3p, hsa-miR-7-5p, hsa-miR-152-3p	C14orf64, C8orf12, DIO3OS, C12orf36, DIRC3, HCG11, C8orf51, DSCR8, SNHG3
<b>MECOM</b>	hsa-miR-133b, hsa-miR-133a-3p	DIRC3, DIO3OS
<b>MITF</b>	hsa-miR-152-3p, hsa-miR-148b-3p, hsa-miR-144-3p, hsa-miR-124-3p, hsa-miR-148a-3p, hsa-miR-137, hsa-miR-182-5p, HSA-MIR-96-5P	DSCR8, C14orf64, SNHG3, C4orf38, DIRC3, HCG11, DIO3OS, SNHG10, UCA1, C8orf12, C12orf36
<b>MYCN</b>	hsa-miR-17-5p, hsa-miR-106b-5p, hsa-miR-93-5p, hsa-miR-101-3p, HSA-MIR-98-5P	C8orf12, C14orf64, C12orf36, SNHG3, HCG11, SNHG10, DIO3OS, DIRC3, C4orf38
<b>NR4A3</b>	hsa-miR-17-5p, hsa-miR-181a-5p, hsa-miR-106b-5p, hsa-miR-93-5p, hsa-miR-20a-5p, hsa-miR-181c-5p, hsa-miR-7-5p, hsa-miR-92a-3p, hsa-miR-20b-5p, hsa-miR-10a-5p, hsa-miR-10b-5p, hsa-miR-106a-5p	C8orf12, C14orf64, C12orf36, SNHG3, HCG11, DSCR8, DIO3OS, SNHG10, DIRC3, C8orf51
<b>RSPO3</b>	hsa-miR-195-5p, hsa-miR-16-5p	C14orf64, C8orf12, C1orf133, DIRC3
<b>SKI</b>	hsa-miR-17-5p, hsa-miR-106b-5p	C8orf12, C14orf64, C12orf36, SNHG3, HCG11
<b>ZEB1</b>	hsa-miR-429, hsa-miR-200c-3p	DIRC3
<b>Apoptosis-related genes</b>		
<b>ADD1</b>	hsa-miR-153-3p	C14orf64, DSCR8
<b>AKT3</b>	hsa-miR-17-5p, hsa-miR-16-5p, hsa-miR-22-3p, hsa-miR-15a-5p, hsa-miR-15b-5p, hsa-miR-195-5p	C8orf12, C14orf64, C12orf36, SNHG3, HCG11, DIRC3, C1orf133, C4orf38, DSCR8, HAR1A
<b>APC</b>	hsa-miR-153-3p	C14orf64, DSCR8
<b>TJP1</b>	hsa-miR-137	C14orf64, DSCR8
<b>YWHAE</b>	hsa-miR-26a-5p	C4orf38, HCG11, UCA1, C14orf64, DIRC3, C12orf36



