

Supplementary table 1

miRNA	Gene (Notch pathway)	Gene (TGF-β pathway)
hsa-miR-106b-5p	KAT2B	SMAD9
hsa-miR-129-5p	NOTCH1	BMPR2

Supplementary Table1. List of experimentally validated miRNA - gene interactions for Notch signaling and TGF-β signaling pathway.

Supplementary Table 2

miRNA	Gene (Notch pathway)	Gene (Wnt pathway)
hsa-miR-181a-5p	NOTCH2,LFNG,KAT2B	WNT16,NLK,WNT3A, WNT2
hsa-miR-183-5p	NOTCH2, PSEN1	BTRC,CCND1,PPP3R1, PSEN1
hsa-miR-562	PSEN1	PSEN1
hsa-miR-25-3p	KAT2B	TP53
hsa-miR-221-3p	DVL2	DKK2,CTNNB1, DVL2
hsa-miR-449a	HDAC1	CCND1
hsa-miR-181b-5p	KAT2B	NLK
hsa-miR-137	CTBP1	CTBP1
hsa-miR-181c-5p	NOTCH2	NLK
hsa-miR-29c-3p	NUMB	JUN

Supplementary Table 2. List of experimentally validated miRNA - gene interactions for Notch signaling and WNT signaling pathway.

Supplementary Table 3

miRNA	Gene (Wnt pathway)	Gene (TGF-β pathway)
hsa-miR-192-5p	FZD7,CTNNBIP1,TBL1X,APC,VANGL1,WNT3,PRICKLE1,NLK,FZD4,MAPK9, GPC4,FZD1,TCF7	ID2, ID4, ACVRD2B, E2F5, ID1, ACVR2A, BMPR2, RPSKB1
hsa-miR-7-5p	CAMK2D, LRP6, MAPK9, WNT8B, PPP2R1B	PPP2R1B , BMPR2
hsa-let-7b-5p	CCND2,CUL1,PLCB3,CCND1	THBS1,CUL1,E2F5
hsa-miR-26a-5p	GSK3B,CCND2, SMAD4 , MYC	SMAD4 , MYC ,SMAD1
hsa-miR-17-5p	MAPK9,CCND1, SMAD4 , MYC	THBS1, SMAD4 , MYC ,TGFB2, BMPR2
hsa-miR-101-3p	FZD6,JUN,RAC1	TGFB2, ACVR2B
hsa-miR-186-5p	WNT5A, SMAD4 ,CNSK1A1	AVCR1, SMAD4 ,SMAD5,ACVR2A
hsa-miR-20a-5p	CCND1, MYC , SMAD4	THBS1, SMAD4 , MYC ,TGFB2, BMPR2
hsa-miR-18a-5p	DAAM2, SMAD4	SMAD4 ,TGFB2
hsa-miR-199a-3p	MAPK9,MAPK8	MAPK1
hsa-miR-148b-3p	FBXW11,TBL1XR1	INHBA
hsa-let-7f-5p	CCND1, MYC	MYC
hsa-miR-425-5p	CCND1, PPP2CB	PPP2CB
hsa-let-7a-5p	CCND2, MYC	THBS1, MYC
hsa-miR-130b-3p	TCF4, SMAD4	ACVR1, SMAD4 ,TGFB2
hsa-miR-374b-5p	FZD8,CCND1	CDKN2B
hsa-miR-22-3p	FRAT2,PRKACA	SP1,BMP7
hsa-let-7c	MYC	TGFB1, MYC
hsa-miR-141-3p	TCF7L1	TGFB2
hsa-miR-125b-5p	TP53	BMPR1B
hsa-miR-584-5p	ROCK1	ROCK1
hsa-miR-29b-3p	CTNNBIP1	ACVR2A,SP1
hsa-miR-128	WNT3A	TGFB2, BMPR2
hsa-miR-302a-3p	CCND2	LEFTY2
hsa-let-7g-5p	MYC	MYC
hsa-miR-483-3p	SMAD4	SMAD4
hsa-miR-302d-3p	CCND2	LEFTY2
hsa-miR-133a	RHOA	RHOA
hsa-miR-140-3p	MAPK8	ACVR2B
hsa-miR-34b-5p	MYC	MYC
hsa-miR-142-3p	GPC4	TGFB2, BMP8A
hsa-miR-146a-5p	ROCK1	ROCK1
hsa-miR-590-3p	PPP2R5A	ID4
hsa-miR-34c-5p	MYC	MYC
hsa-miR-34b-3p	MYC	MYC
hsa-miR-196a-5p	CCND2	BMP4
hsa-miR-185-5p	RHOA	RHOA
hsa-miR-378a-3p	MYC	MYC
hsa-miR-138-5p	ROCK2	ROCK2

Supplementary Table 3. List of experimentally validated miRNA - gene interactions for WNT signaling and TGF-β signaling pathway.