

Additional File 2A

ID	Gene Target	Source
hsa-mir-205 (seed CCUUCAU)	ATP1A1	miRecords
hsa-mir-205	DOK4	TargetScan Human,miRecords
hsa-mir-205	ERBB3	TargetScan Human,miRecords
hsa-mir-205	INPPL1	TargetScan Human,miRecords
hsa-mir-205	MED1	TargetScan Human,miRecords
hsa-mir-205	PRKCE	TargetScan Human,miRecords
hsa-mir-205	PTEN	TargetScan Human,miRecords
hsa-mir-205	TRPS1	TargetScan Human
hsa-mir-205	VEGFA	TargetScan Human,miRecords
hsa-mir-205	ZEB1	TargetScan Human,miRecords
hsa-mir-205	ZEB2	miRecords
hsa-mir-24 (seed GGCUCAG)	ACVR1B	TarBase,TargetScan Human,miRecords
hsa-mir-24	AURKB	miRecords
hsa-mir-24	BRCA1	miRecords
hsa-mir-24	CCNA2	miRecords
hsa-mir-24	CDK1	miRecords
hsa-mir-24	CDK4	miRecords
hsa-mir-24	CDKN2A	TarBase,miRecords
hsa-mir-24	DHFR	TarBase,miRecords
hsa-mir-24	E2F2	miRecords
hsa-mir-24	FEN1	miRecords
hsa-mir-24	FURIN	TargetScan Human
hsa-mir-24	MAP2K4	miRecords
hsa-mir-24	MAPK14	TarBase,TargetScan Human,miRecords
hsa-mir-24	MYC	TargetScan Human,miRecords
hsa-mir-24	NOTCH1	TarBase
hsa-mir-24	SMAD3	miRecords
hsa-mir-24	SMAD4	miRecords
hsa-mir-24	SMAD5	miRecords
hsa-mir-21 (seed AGCUUAU)	ACTA2	miRecords
hsa-mir-21	APAF1	miRecords
hsa-mir-21	BMPR2	TargetScan Human,miRecords
hsa-mir-21	BTG2	TargetScan Human,miRecords
hsa-mir-21	CDC25A	TargetScan Human,miRecords
hsa-mir-21	CDK6	TargetScan Human,miRecords
hsa-mir-21	CDKN1A	miRecords

hsa-mir-21	CFL2	TargetScan Human,miRecords
hsa-mir-21	E2F1	miRecords
hsa-mir-21	FAM3C	TargetScan Human,miRecords
hsa-mir-21	FAS	miRecords
hsa-mir-21	FASLG	TargetScan Human
hsa-mir-21	GLCCI1	TargetScan Human,miRecords
hsa-mir-21	HIPK3	miRecords
hsa-mir-21	IL6R	TargetScan Human,miRecords
hsa-mir-21	JAG1	TargetScan Human,miRecords
hsa-mir-21	LRRFIP1	miRecords
hsa-mir-21	MARCKS	miRecords
hsa-mir-21	MTAP	TargetScan Human,miRecords
hsa-mir-21	NFIB	TargetScan Human,miRecords
hsa-mir-21	PDCD4	TarBase,TargetScan Human,miRecords
hsa-mir-21	PELI1	TargetScan Human,miRecords
hsa-mir-21	PIK3R1	TargetScan Human
hsa-mir-21	PRRG4	TargetScan Human,miRecords
hsa-mir-21	PTEN	TarBase,miRecords
hsa-mir-21	RECK	TargetScan Human,miRecords
hsa-mir-21	RP2	TargetScan Human,miRecords
hsa-mir-21	SERPINB5	TarBase,TargetScan Human,miRecords
hsa-mir-21	SESN1	TargetScan Human,miRecords
hsa-mir-21	SLC16A10	TargetScan Human,miRecords
hsa-mir-21	SOCS5	miRecords
hsa-mir-21	SOX5	TargetScan Human,miRecords
hsa-mir-21	SPRY2	TargetScan Human,miRecords
hsa-mir-21	TAGLN	miRecords
hsa-mir-21	TGFBR2	TargetScan Human,miRecords
hsa-mir-21	TIMP3	TargetScan Human,miRecords
hsa-mir-21	TPM1	TarBase,miRecords

Additional File 2B

KEGG pathways and Gene Ontology term enrichment analysis of miR-21, miR-24 and miR-205 validated gene targets		
Term	Genes	FDR corrected p value
hsa04115 p53 signaling pathway	CDK1, CDKN1A, CDKN2A, SERPINB5, CDK6, APAF1, FAS, CDK4, SESN1, PTEN	2.63E-06
hsa04110 Cell cycle	E2F1, E2F2, CDK1, CDKN1A, CDKN2A, SMAD4, SMAD3, CDK6, CDK4, CCNA2, MYC, CDC25A	3.01E-06
GO:0042127 regulation of cell proliferation	ERBB3, TGFBR2, SMAD4, BMPR2, SMAD3, CDK6, IL6R, JAG1, ZEB1, CDK4, PTEN, SESN1, BRCA1, NOTCH1, CDKN1A, CDKN2A, BTG2, VEGFA, MYC, CCNA2, NFIB	1.17E-07
GO:0051726 regulation of cell cycle	E2F1, E2F2, CDK1, SMAD3, CDK6, CDK4, PTEN, PDCD4, CDC25A, BRCA1, CDKN1A, CDKN2A, MAPK14, MYC, CCNA2	2.16E-07
GO:0042981 regulation of apoptosis	CDK1, ERBB3, SMAD3, FASLG, IL6R, PRKCE, FURIN, PTEN, TIMP3, BRCA1, ACVR1B, NOTCH1, CDKN1A, CDKN2A, BTG2, HIPK3, VEGFA, APAF1, FAS, MYC	1.36E-06
GO:0043067 regulation of programmed cell death	CDK1, ERBB3, SMAD3, FASLG, IL6R, PRKCE, FURIN, PTEN, TIMP3, BRCA1, ACVR1B, NOTCH1, CDKN1A, CDKN2A, BTG2, HIPK3, VEGFA, APAF1, FAS, MYC	1.61E-06
GO:0010941 regulation of cell death	CDK1, ERBB3, SMAD3, FASLG, IL6R, PRKCE, FURIN, PTEN, TIMP3, BRCA1, ACVR1B, NOTCH1, CDKN1A, CDKN2A, BTG2, HIPK3, VEGFA, APAF1, FAS, MYC	1.71E-06