

Enriched MetaCore P

miRNAs Target Genes Enriched MetaCore Pathway	Pubmed citation Number	GC related Genes in the pathway
Cell cycle_Start of DNA replication in early S phase	37	CCNE1
		CDC6
		CDK2
		E2F1
		MCM2
		MCM4
		MCM5
		MCM7
		ORC1
		RPA3
Cell cycle_Cell cycle (generic schema)	75	CCNA2
		CCNB1
		CCND1
		CCND2
		CCND3
		CCNE1
		CDC25A
		CDC25B
		CDC25C
		CDK1
		CDK2
		CDK4
		CDK6
		E2F1
		E2F2
		E2F3
RB1		
RBL2		
Glucocorticoid receptor signaling	76	CEBPB
		FOS
		HSP90AA1
		HSP90AB1
		HSP90B1
		HSPA14
		HSPA1A
		HSPA1B
		HSPA1L
		HSPA4
		HSPA5
		HSPA8
		JUN
		MMP13
		NFKB1
		NFKB2
NFKBIA		
NR3C1		

		POU2F1
		POU2F2
		PTGES3
		RELA
		SERPINE1
		SMAD3
		STAT5A
		STAT5B
		TGFBR1
Ligand-dependent activation of the ESR1/SP pathway	319	ACTB
		ADA
		CAD
		CCND1
		CCNE1
		CDC25A
		CEBPB
		E2F1
		EGFR
		ESR1
		FOS
		HIF1A
		LDLR
		NCOA3
		SMARCA2
		SMARCA4
		SMARCB1
		SP1
		TYMS
		VEGFA
		CDH1
		CDH2
		CLDN1

TGF-beta-dependent induction of EMT via SMADs	292	<table border="1"> <tr><td>ETS1</td></tr> <tr><td>FN1</td></tr> <tr><td>HMGA2</td></tr> <tr><td>ILK</td></tr> <tr><td>JAG1</td></tr> <tr><td>MMP2</td></tr> <tr><td>NOTCH1</td></tr> <tr><td>OCLN</td></tr> <tr><td>SERPINE1</td></tr> <tr><td>SMAD2</td></tr> <tr><td>SMAD3</td></tr> <tr><td>SMAD4</td></tr> <tr><td>SNAI1</td></tr> <tr><td>SNAI2</td></tr> <tr><td>SP1</td></tr> <tr><td>TCF3</td></tr> <tr><td>TGFB1</td></tr> <tr><td>TGFB2</td></tr> <tr><td>TGFB3</td></tr> <tr><td>TGFBR1</td></tr> <tr><td>TGFBR2</td></tr> <tr><td>TWIST1</td></tr> <tr><td>VIM</td></tr> <tr><td>ZEB1</td></tr> <tr><td>ZEB2</td></tr> </table>	ETS1	FN1	HMGA2	ILK	JAG1	MMP2	NOTCH1	OCLN	SERPINE1	SMAD2	SMAD3	SMAD4	SNAI1	SNAI2	SP1	TCF3	TGFB1	TGFB2	TGFB3	TGFBR1	TGFBR2	TWIST1	VIM	ZEB1	ZEB2
ETS1																											
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SMAD2																											
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TGFBR2																											
TWIST1																											
VIM																											
ZEB1																											
ZEB2																											
Regulation of G1/S transition (part 1)	238	<table border="1"> <tr><td>ANAPC1</td></tr> <tr><td>BRCA1</td></tr> <tr><td>BTRC</td></tr> <tr><td>CCNA2</td></tr> <tr><td>CCND1</td></tr> <tr><td>CCND2</td></tr> <tr><td>CCND3</td></tr> <tr><td>CCNE1</td></tr> <tr><td>CDC25A</td></tr> <tr><td>CDK2</td></tr> <tr><td>CDK4</td></tr> <tr><td>CDK6</td></tr> <tr><td>CDKN1A</td></tr> <tr><td>CDKN1B</td></tr> <tr><td>CDKN2A</td></tr> <tr><td>CDKN2B</td></tr> <tr><td>CHEK2</td></tr> <tr><td>CUL1</td></tr> <tr><td>FBXW7</td></tr> </table>	ANAPC1	BRCA1	BTRC	CCNA2	CCND1	CCND2	CCND3	CCNE1	CDC25A	CDK2	CDK4	CDK6	CDKN1A	CDKN1B	CDKN2A	CDKN2B	CHEK2	CUL1	FBXW7						
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CUL1																											
FBXW7																											

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		RPS6KB1
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		SMAD2
		SMAD3
		SMAD4
		SP1
		TGFB1
		TGFB2
		TGFBR1
		TGFBR2
		UBB
		UBC
		CUL1
		FBXW7
		H3F3A
		H3F3B
		HDAC1
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		HIST1H4D
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		HIST1H4K
		HIST1H4L
		HIST2H4A
		HIST2H4B
		HIST3H3
		HIST4H4
		JAG1
		JAG2
		MFNG
		MYOD1
		NFKBIA
		NOTCH1
		RBBP4
		TP73
Notch Signaling Pathway	29	

Pathways and Constituent GC-Related Objects

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