

Representative Genes from Cluster One

Gene ^a	Gene Function ^b	Empirical Verification for E2F regulation ^c
<i>ASK</i>	DNA synthesis and replication	[1,2]
<i>BCL2</i>	Apoptosis	[3]
<i>CDC14B</i>	DNA synthesis and replication	[1]
<i>CDC25C</i>	Cell cycle G1	
<i>CDC27</i>	DNA synthesis and replication	
<i>CDC6</i>	DNA synthesis and replication	
<i>CDC7L1</i>	DNA synthesis and replication	
<i>CDCA7</i>	Cell cycle	
<i>CDKN1A</i>	Negative regulator of cell cycle	[4]
<i>CDKN2A</i>	Negative regulator of cell cycle	[5]
<i>CKS1</i>	Cell cycle S/G2	[6]
<i>CTGF</i>	Regulation of cell growth	[3]
<i>EED</i>	Development	[3,7]
<i>FEN1</i>	DNA damage repair	[6,7]
<i>HEC</i>	Cell cycle S/G2	[2]
<i>HOXA5</i>	Development	[1]
<i>KIF4A</i>	Cell Cycle S/G2	[2,6]
<i>MAD2L1</i>	Checkpoints	[2]
<i>MCL1</i>	Anti-apoptosis	[4]
<i>MCM7</i>	DNA synthesis and replication	[6,7]
<i>ORC1L</i>	DNA synthesis and replication	[2]
<i>PCNA</i>	DNA synthesis and replication	[1,6,7]
<i>PLK</i>	Cell Cycle S/G2	[6]
<i>PRIM2A</i>	DNA synthesis and replication	[1,2]
<i>RB1</i>	Checkpoints	[2,6]
<i>RFC1</i>	DNA synthesis and replication	[1,6]
<i>RFC4</i>	DNA synthesis and replication	[2,7]
<i>RRM1</i>	DNA synthesis and replication	[2,6]
<i>SMC2L1</i>	Cell Cycle S/G2	[2]
<i>SMC4L1</i>	Cell Cycle S/G2	[2]
<i>TOP2A</i>	DNA synthesis and replication	[6,7]
<i>TP53</i>	Checkpoints	[2,6]

^aHUGO approved gene symbol

^bAs annotated in [8]

^cPartially compiled from references in [8]

Reference List

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Representative Genes from Cluster 6

Gene ^a	Gene Function ^b	Empirical Verification for kappa B regulation ^b
<i>AMH</i>	Anti-Mullerian hormone	[1]
<i>EPO</i>	Erythropoietin	[2]
<i>ETR101</i>	TPA-inducible, Jun-like transcription factor	[3]
<i>FOS</i>	Proto-oncogene	[4]
<i>JUNB</i>	Proto-oncogene	[5]
<i>NFKB2</i>	NF-kB p100 precursor	[6]
<i>POMC</i>	Proopiomelanocortin	[7]
<i>PTGIS</i>	Prostaglandin synthase	[8]
<i>IL11</i>	Interleukin-11	[9]
<i>COL1A2</i>	Collagen, type I, alpha 2	[10]
<i>COL7A1</i>	Collagen, type VII, alpha 1	[11]
<i>CYP1A1</i>	Cytochrome p450	[12]
<i>ICAM1</i>	Intracellular adhesion molecule 1	[13]
<i>TGFB1</i>	Transforming growth factor, beta 1	[14]
<i>TNF</i>	Tumor necrosis factor	[15,16]
<i>CCND1</i>	Cyclin D1	[17]
<i>CCND2</i>	Cyclin D2	[18]

^aHUGO gene symbol

^bPartially compiled from <http://people.bu.edu/gilmore/nf-kb/target/index.html>

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Representative Genes from Cluster 13

Gene^a	Gene Function^b	Empirical Verification, of Sp1, EGR2 or AHR regulation^c
<i>MYBL2</i>	Regulation of transcription	[1]
<i>RBL1</i>	Regulation of transcription	[2]
<i>SLC2A1</i>	Transporter activity	[3]
<i>SYN47</i>	Regulation of transcription	[4]
<i>TAO1</i>	Regulation of cell growth	[4]
<i>RPL10</i>	Protein biosynthesis	[5] ^c
<i>RPL13</i>	Protein biosynthesis	[5] ^c
<i>RPL18</i>	Protein biosynthesis	[5] ^c
<i>RPL18A</i>	Structural constituent of ribosome	[5] ^c
<i>RPL27A</i>	Cytosolic large ribosomal subunit	[5] ^c
<i>RPL28</i>	Cytosolic large ribosomal subunit	[5] ^c
<i>RPL35</i>	Structural constituent of ribosome	[5] ^c
<i>RPS13</i>	Structural constituent of ribosome	[5] ^c
<i>RPS28</i>	Structural constituent of ribosome	[5] ^c
<i>CDKN1B</i>	Cyclin-dependent protein kinase inhibitor	[6]
<i>TCEB3</i>	Transcriptional elongation regulator activity	[4]
<i>HMG2</i>	Nuclear chromosome	[7]
<i>SMPD1</i>	Signal transduction	[8]
<i>SCTR</i>	Receptor activity	[9]
<i>PKM2</i>	Glycolysis	[10]
<i>PKD2</i>	Cation channel activity	[11]
<i>P2RX4</i>	Receptor activity	[12]
<i>NF2</i>	Structural molecule activity	[13]
<i>MXI1</i>	Regulation of transcription	[14]
<i>KRT19</i>	Structural molecule activity	[15]
<i>IGFBP3</i>	Regulation of cell growth	[16]
<i>IGFBP2</i>	Regulation of cell growth	[17]
<i>ID4</i>	Transcription corepressor activity	[18]
<i>HOXB7</i>	Regulation of transcription	[19]
<i>GSTP1</i>	Metabolism	[20]
<i>G22P1</i>	Helicase activity	[21]
<i>FMR1</i>	mRNA binding	[22]
<i>FGFR4</i>	Receptor activity	[23]
<i>CCND3</i>	Regulation of cell cycle	[24]
<i>BIRC5</i>	Cysteine protease inhibitor activity	[25]

^aHUGO approved gene symbol

^bExtracted from www.genecards.org

^cComputational corroboration

Reference List

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