

| Gene Symbol | Accession | Alias/Prev Symbol | Official Full Name |
|-------------|----------------|---|---|
| ABL1 | NM_005157.3 | ABL, JTK7, c-ABL, p150 | c-abl oncogene 1, non-receptor tyrosine kinase |
| ACVR1B | NM_004302.3 | ACVRLK4, ALK4, SKR2, ActRIB | activin A receptor, type IB |
| ACVR1C | NM_145259.2 | ALK7, ACVRLK7 | activin A receptor, type IC |
| ACVR2A | NM_001616.3 | ACVR2, ACTRII | activin A receptor, type IIA |
| AKT1 | NM_005163.2 | RAC, PKB, PRKBA, AKT | v-akt murine thymoma viral oncogene homolog 1 |
| AKT2 | NM_001626.2 | | v-akt murine thymoma viral oncogene homolog 2 |
| AKT3 | NM_181690.1 | PKBG, RAC-gamma, PRKBG | v-akt murine thymoma viral oncogene homolog 3 |
| ALK | NM_004304.3 | CD246 | anaplastic lymphoma receptor tyrosine kinase |
| ALKBH2 | NM_001001655.2 | MGC90512, ABH2 | alkB, alkylation repair homolog 2 (E. coli) |
| ALKBH3 | NM_139178.3 | DEPC-1 | alkB, alkylation repair homolog 3 (E. coli) |
| AMER1 | NM_152424.3 | FAM123B, RP11-403E24.2, FLJ39827, WTX | APC membrane recruitment protein 1 |
| AMH | NM_000479.3 | MIS | anti-Mullerian hormone |
| ANGPT1 | NM_001146.3 | KIAA0003, Ang1 | angiopoietin 1 |
| APC | NM_000038.3 | DP2, DP3, DP2.5, PPP1R46 | adenomatous polyposis coli |
| APH1B | NM_001145646.1 | PSFL, APH-1B, DKFZp564D0372 | APH1B gamma secretase subunit |
| AR | NM_001011645.1 | DHTR, SBMA, AIS, NR3C4, SMAX1, HUMARA | androgen receptor |
| ARID1A | NM_006015.4 | C1orf4, SMARCF1, B120, P270, C10rf4, BAF250, BAF250a | AT rich interactive domain 1A (SWI-like) |
| ARID1B | NM_020732.3 | KIAA1235, ELD/OSA1, p250R, BAF250b, DAN15, 6A3-5 | AT rich interactive domain 1B (SWI1-like) |
| ARID2 | NM_152641.2 | KIAA1557, DKFZp686G052, FLJ30619, BAF200 | AT rich interactive domain 2 (ARID, RFX-like) |
| ARNT2 | NM_014862.3 | KIAA0307, bHLHe1 | aryl-hydrocarbon receptor nuclear translocator 2 |
| ASXL1 | NM_001164603.1 | KIAA0978 | additional sex combs like 1 (Drosophila) |
| ATM | NM_138292.3 | ATA, ATDC, ATC, ATD, TEL1, TELO1 | ataxia telangiectasia mutated |
| ATR | NM_001184.2 | FRP1, SCKL, SCKL1, MEC1 | ataxia telangiectasia and Rad3 related |
| ATRX | NM_000489.3 | RAD54, JMS, XH2, XNP | alpha thalassemia/mental retardation syndrome X-linked |
| AXIN1 | NM_181050.1 | PPP1R49 | axin 1 |
| AXIN2 | NM_004655.3 | MGC126582, DKFZp781B0869 | axin 2 |
| B2M | NM_004048.2 | | beta-2-microglobulin |
| BAD | NM_004322.3 | BCL2L8, BBC2 | BCL2-associated agonist of cell death |
| BAIAP3 | NM_003933.4 | BAP3, KIAA0734 | BAI1-associated protein 3 |
| BAMBI | NM_012342.2 | NMA | BMP and activin membrane-bound inhibitor |
| BAP1 | NM_004656.2 | hucep-6, KIAA0272, UCHL2 | BRCA1 associated protein-1 (ubiquitin carboxy-terminal hydrolase) |
| BAX | NM_138761.3 | BCL2L4 | BCL2-associated X protein |
| BCL2 | NM_000657.2 | Bcl-2, PPP1R50 | B-cell CLL/lymphoma 2 |
| BCL2A1 | NM_004049.2 | HBPA1, GRS, BFL1, BCL2L5, ACC-1, ACC-2 | BCL2-related protein A1 |
| BCL2L1 | NM_138578.1 | BCLX, BCL2L, Bcl-X, bcl-xL, bcl-xS, PPP1R52 | BCL2-like 1 |
| BCOR | NM_001123383.1 | FLJ20285, KIAA1575 | BCL6 corepressor |
| BDNF | NM_170732.4 | | brain-derived neurotrophic factor |
| BID | NM_197966.1 | | BH3 interacting domain death agonist |
| BIRC3 | NM_182962.1 | API2, cIAP2, hiap-1, MIHC, RNF49, MALT2, c-IAP2 | baculoviral IAP repeat containing 3 |
| BIRC7 | NM_022161.2 | mliap, ML-IAP, KIAP, RNF50 | baculoviral IAP repeat containing 7 |
| BMP2 | NM_001200.2 | BMP2A | bone morphogenetic protein 2 |
| BMP4 | NM_001202.2 | BMP2B | bone morphogenetic protein 4 |
| BMP5 | NM_021073.2 | | bone morphogenetic protein 5 |
| BMP6 | NM_001718.2 | VGR, VGR1 | bone morphogenetic protein 6 |
| BMP7 | NM_001719.1 | OP-1 | bone morphogenetic protein 7 |
| BMP8A | NM_181809.3 | | bone morphogenetic protein 8a |
| BMPR1B | NM_001203.1 | ALK6, CDW293 | bone morphogenetic protein receptor, type IB |
| BNIP3 | NM_004052.2 | Nip3 | BCL2/adenovirus E1B 19kDa interacting protein 3 |
| BRAF | NM_004333.3 | BRAF1 | v-raf murine sarcoma viral oncogene homolog B |
| BRCA1 | NM_007305.2 | RNF53, BRCC1, PPP1R53 | breast cancer 1, early onset |
| BRCA2 | NM_000059.3 | FANCD1, FACD, FANCD, FAD, FAD1, BRCC2 | breast cancer 2, early onset |
| BRIP1 | NM_032043.1 | OF, BACH1, FANCJ | BRCA1 interacting protein C-terminal helicase 1 |
| C19orf40 | NM_152266.3 | FLJ46828, MGC32020, FAAP24 | chromosome 19 open reading frame 40 |
| CACNA1C | NM_199460.2 | CCHL1A1, CACNL1A1, Cav1.2, CACH2, CACN2, TS, LQT8 | calcium channel, voltage-dependent, L type, alpha 1C subunit |
| CACNA1D | NM_000720.2 | CCHL1A2, CACNL1A2, Cav1.3, CACH3, CACN4 | calcium channel, voltage-dependent, L type, alpha 1D subunit |
| CACNA1E | NM_000721.2 | CACNL1A6, Cav2.3, BI1, CACH6 | calcium channel, voltage-dependent, R type, alpha 1E subunit |
| CACNA1G | NM_198397.1 | Cav3.1, NBR13 | calcium channel, voltage-dependent, T type, alpha 1G subunit |
| CACNA1H | NM_021098.2 | Cav3.2 | calcium channel, voltage-dependent, T type, alpha 1H subunit |
| CACNA2D1 | NM_000722.2 | CACNL2A, CACNA2, MHS3, LINC01112, lncRNA-N3 | calcium channel, voltage-dependent, alpha 2/delta subunit 1 |
| CACNA2D2 | NM_001005505.1 | KIAA0558 | calcium channel, voltage-dependent, alpha 2/delta subunit 2 |
| CACNA2D3 | NM_018398.2 | HSA272268 | calcium channel, voltage-dependent, alpha 2/delta subunit 3 |
| CACNA2D4 | NM_001005737.1 | | calcium channel, voltage-dependent, alpha 2/delta subunit 4 |
| CACNB2 | NM_000724.3 | MYSB, CACNLB2 | calcium channel, voltage-dependent, beta 2 subunit |
| CACNB3 | NM_000725.2 | CACNLB3 | calcium channel, voltage-dependent, beta 3 subunit |
| CACNB4 | NM_001005747.2 | EJM4 | calcium channel, voltage-dependent, beta 4 subunit |
| CACNG1 | NM_000727.2 | CACNLG | calcium channel, voltage-dependent, gamma subunit 1 |
| CACNG4 | NM_014405.2 | MGC11138, MGC24983 | calcium channel, voltage-dependent, gamma subunit 4 |
| CACNG6 | NM_145814.1 | | calcium channel, voltage-dependent, gamma subunit 6 |
| CALML3 | NM_005185.2 | CLP | calmodulin-like 3 |
| CALML5 | NM_017422.4 | CLSP | calmodulin-like 5 |
| CALML6 | NM_138705.2 | CAGLP | calmodulin-like 6 |
| CAMK2B | NM_001220.3 | CAMKB, CAM2, CAMK2 | calcium/calmodulin-dependent protein kinase II beta |
| CAPN2 | NM_001748.4 | mCANP, CANPm1, CANPL2 | calpain 2, (m/II) large subunit |
| CARD11 | NM_032415.2 | CARMA1, BIMP3 | caspase recruitment domain family, member 11 |
| CASP10 | NM_032977.3 | MCH4 | caspase 10, apoptosis-related cysteine peptidase |
| CASP12 | NM_001191016.1 | CASP12P1 | caspase 12 (gene/pseudogene) |
| CASP3 | NM_032991.2 | CPP32, CPP32B, Yama, apopain | caspase 3, apoptosis-related cysteine peptidase |
| CASP7 | NM_001227.3 | MCH3, CMH-1, ICE-LAP3 | caspase 7, apoptosis-related cysteine peptidase |
| CASP8 | NM_001228.4 | MCH5, MACH, FLICE, Casp-8 | caspase 8, apoptosis-related cysteine peptidase |
| CASP9 | NM_001229.2 | MCH6, ICE-LAP6, APAF-3, PPP1R56 | caspase 9, apoptosis-related cysteine peptidase |
| CBL | NM_005188.2 | CBL2, RNF55, c-Cbl | Cbl proto-oncogene, E3 ubiquitin protein ligase |
| CBLC | NM_012116.3 | CBL-3, CBL-SL, RNF57 | Cbl proto-oncogene C, E3 ubiquitin protein ligase |
| CCNA1 | NM_003914.3 | CT146 | cyclin A1 |
| CCNA2 | NM_001237.2 | CCNA, CCN1 | cyclin A2 |
| CCNB1 | NM_031966.2 | CCNB | cyclin B1 |
| CCNB3 | NM_033671.1 | | cyclin B3 |
| CCND1 | NM_053056.2 | BCL1, D11S287E, PRAD1, U21B31 | cyclin D1 |
| CCND2 | NM_001759.2 | | cyclin D2 |
| CCND3 | NM_001760.2 | | cyclin D3 |
| CCNE1 | NM_001238.1 | CCNE | cyclin E1 |
| CCNE2 | NM_057735.1 | CYCE2 | cyclin E2 |
| CCNO | NM_021147.3 | CCNU, UDG2, FLJ22422, UNG2 | cyclin O |
| CCR7 | NM_001838.2 | CMKBR7, EBI1, BLR2, CDw197, CD197 | chemokine (C-C motif) receptor 7 |
| CD14 | NM_000591.2 | | CD14 molecule |
| CD19 | NM_001770.4 | | CD19 molecule |
| CD40 | NM_001250.4 | TNFRSF5, p50, Bp50 | CD40 molecule, TNF receptor superfamily member 5 |
| CDC14A | NM_033313.2 | Cdc14A1, Cdc14A2, cdc14 | cell division cycle 14A |
| CDC14B | NM_003671.3 | Cdc14B1, Cdc14B2, CDC14B3, hCDC14B | cell division cycle 14B |
| CDC25A | NM_001789.2 | | cell division cycle 25A |
| CDC25B | NM_021873.2 | | cell division cycle 25B |
| CDC25C | NM_001790.2 | CDC25, PPP1R60 | cell division cycle 25C |
| CDC6 | NM_001254.3 | CDC18L | cell division cycle 6 |
| CDC7 | NM_003503.2 | CDC7L1, Hsk1, huCdc7, HsCdc7 | cell division cycle 7 |
| CDH1 | NM_004360.2 | UVo, uvomorulin, CD324 | cadherin 1, type 1, E-cadherin (epithelial) |
| CDK2 | NM_001798.2 | | cyclin-dependent kinase 2 |
| CDK4 | NM_000075.2 | PSK-J3 | cyclin-dependent kinase 4 |
| CDK6 | NM_001259.5 | PLSTIRE | cyclin-dependent kinase 6 |
| CDKN1A | NM_000389.2 | CDKN1, P21, CIP1, WAF1, SDI1, CAP20, p21CIP1, p21Cip1/Waf1 | cyclin-dependent kinase inhibitor 1A (p21, Cip1) |
| CDKN1B | NM_004064.2 | KIP1, P27/Kip1 | cyclin-dependent kinase inhibitor 1B (p27, Kip1) |
| CDKN1C | NM_000076.2 | BWCR, BWS, P57, KIP2 | cyclin-dependent kinase inhibitor 1C (p57, Kip2) |
| CDKN2A | NM_000077.3 | CDKN2, MLM, CDK4I, p16, INK4a, MTS1, CMM2, ARF, p19, p14, INK | cyclin-dependent kinase inhibitor 2A |
| CDKN2B | NM_004936.3 | P15, MTS2, INK4B, TP15, CDK4I, p15INK4b | cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4) |
| CDKN2C | NM_001262.2 | INK4C, p18 | cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4) |

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| CDKN2D | NM_001800.3 | INK4D, p19 | cyclin-dependent kinase inhibitor 2D (p19, inhibits CDK4) |
| CEBPA | NM_004364.2 | CEBP, C/EBP-alpha | CCAAT/enhancer binding protein (C/EBP), alpha |
| CEBPE | NM_001805.2 | CRP1 | CCAAT/enhancer binding protein (C/EBP), epsilon |
| CHAD | NM_001267.2 | SLRR4A | chondroadherin |
| CHEK1 | NM_001114121.1 | CHK1 | checkpoint kinase 1 |
| CHEK2 | NM_007194.3 | RAD53, CDS1, CHK2, HuCds1, PP1425, bA444G7 | checkpoint kinase 2 |
| CHUK | NM_001278.3 | TCF16, IKK1, IKK-alpha, IKBKA, NFKBIKA, IKKA | conserved helix-loop-helix ubiquitous kinase |
| CIC | NM_015125.3 | KIAA0306 | capicua transcriptional repressor |
| CLCF1 | NM_013246.2 | NNT1, BSF3, CLC, NR6, CISS2, BSF-3, NNT-1 | cardiotrophin-like cytokine factor 1 |
| CNTFR | NM_147164.1 | | ciliary neurotrophic factor receptor |
| COL11A1 | NM_001854.3 | COLL6, STL2, CO11A1 | collagen, type XI, alpha 1 |
| COL11A2 | NM_001163771.1 | DFNA13, DFNB53, HKE5 | collagen, type XI, alpha 2 |
| COL1A1 | NM_000088.3 | OI4 | collagen, type I, alpha 1 |
| COL1A2 | NM_000089.3 | OI4 | collagen, type I, alpha 2 |
| COL24A1 | NM_152890.5 | | collagen, type XXIV, alpha 1 |
| COL27A1 | NM_032888.2 | KIAA1870, MGC11337, FLJ11895 | collagen, type XXVII, alpha 1 |
| COL2A1 | NM_001844.4 | SEDC, AOM, STL1 | collagen, type II, alpha 1 |
| COL3A1 | NM_000090.3 | EDS4A | collagen, type III, alpha 1 |
| COL4A3 | NM_000091.3 | | collagen, type IV, alpha 3 (Goodpasture antigen) |
| COL4A4 | NM_000092.4 | CA44 | collagen, type IV, alpha 4 |
| COL4A5 | NM_033381.1 | ASLN, ATS | collagen, type IV, alpha 5 |
| COL4A6 | NM_001847.2 | | collagen, type IV, alpha 6 |
| COL5A1 | NM_000093.3 | | collagen, type V, alpha 1 |
| COL5A2 | NM_000393.3 | | collagen, type V, alpha 2 |
| COL6A6 | NM_001102608.1 | | collagen, type VI, alpha 6 |
| COMP | NM_000095.2 | PSACH, EDM1, EPD1, MED, THBS5 | cartilage oligomeric matrix protein |
| CREB3L1 | NM_052854.1 | OASIS | CAMP responsive element binding protein 3-like 1 |
| CREB3L3 | NM_001271995.1 | CREB-H | CAMP responsive element binding protein 3-like 3 |
| CREB3L4 | NM_130898.2 | AlbZIP, CREB4, CREB3, hJAL, ATCE1 | CAMP responsive element binding protein 3-like 4 |
| CREB5 | NM_182898.2 | H_GS165L15.1, CRE-BPA | CAMP responsive element binding protein 5 |
| CREBBP | NM_004380.2 | RSTS, RTS, CBP, KAT3A | CREB binding protein |
| CRLF2 | NM_001012288.1 | CRL2, TSLPR | cytokine receptor-like factor 2 |
| CSF1R | NM_005211.2 | FMS, C-FMS, CSFR, CD115 | colony stimulating factor 1 receptor |
| CSF2 | NM_000758.2 | GM-CSF, GMCSF | colony stimulating factor 2 (granulocyte-macrophage) |
| CSF3 | NM_000759.3 | GCSF, G-CSF, C17orf33, MGC45931 | colony stimulating factor 3 (granulocyte) |
| CSF3R | NM_156038.2 | CD114, GCSFR | colony stimulating factor 3 receptor (granulocyte) |
| CTNNB1 | NM_001904.3 | CTTNB, beta-catenin, armadillo | catenin (cadherin-associated protein), beta 1, 88kDa |
| CUL1 | NM_003592.2 | | cullin 1 |
| CXXC4 | NM_025212.1 | IDAX | CXXC finger protein 4 |
| CYLD | NM_015247.1 | CYLD1, KIAA0849, USPL2 | cylindromatosis (turban tumor syndrome) |
| DAXX | NM_001350.3 | DAP6 | death-domain associated protein |
| DDB2 | NM_000107.1 | DDDB, UV-DDB2, FLJ34321 | damage-specific DNA binding protein 2, 48kDa |
| DDIT3 | NM_004083.4 | CHOP10, GADD153, CHOP | DNA-damage-inducible transcript 3 |
| DDIT4 | NM_019058.2 | RTP801, FLJ20500, REDD-1, REDD1, Dig2 | DNA-damage-inducible transcript 4 |
| DKK1 | NM_012242.2 | SK, DKK-1 | dickkopf WNT signaling pathway inhibitor 1 |
| DKK2 | NM_014421.2 | | dickkopf WNT signaling pathway inhibitor 2 |
| DKK4 | NM_014420.2 | | dickkopf WNT signaling pathway inhibitor 4 |
| DLL1 | NM_005618.3 | | delta-like 1 (Drosophila) |
| DLL3 | NM_203486.2 | SCDO1 | delta-like 3 (Drosophila) |
| DLL4 | NM_019074.2 | | delta-like 4 (Drosophila) |
| DNMT1 | NM_001379.2 | DNMT, MCMT, CXXC9 | DNA (cytosine-5-)methyltransferase 1 |
| DNMT3A | NM_022552.3 | | DNA (cytosine-5-)methyltransferase 3 alpha |
| DTX1 | NM_004416.2 | hDx-1 | deltex 1, E3 ubiquitin ligase |
| DTX3 | NM_178502.2 | FLJ34766, RNF154 | deltex 3, E3 ubiquitin ligase |
| DTX4 | NM_015177.1 | KIAA0937, RNF155 | deltex 4, E3 ubiquitin ligase |
| DUSP10 | NM_144728.2 | MKP-5, MKP5 | dual specificity phosphatase 10 |
| DUSP2 | NM_004418.3 | PAC-1 | dual specificity phosphatase 2 |
| DUSP4 | NM_057158.2 | HVH2, MKP-2, TYP | dual specificity phosphatase 4 |
| DUSP5 | NM_004419.3 | HVH3 | dual specificity phosphatase 5 |
| DUSP6 | NM_001946.2 | MKP-3, PYST1 | dual specificity phosphatase 6 |
| DUSP8 | NM_004420.2 | C11orf81, HVH-5, HB5, FLJ42958 | dual specificity phosphatase 8 |
| E2F1 | NM_005225.1 | RBBP3, RBP3 | E2F transcription factor 1 |
| E2F5 | NM_001951.3 | | E2F transcription factor 5, p130-binding |
| EFNA1 | NM_004428.2 | TNFAIP4, EPLG1, LERK1, ECKLG | ephrin-A1 |
| EFNA2 | NM_001405.3 | EPLG6, ELF-1, LERK6 | ephrin-A2 |
| EFNA3 | NM_004952.4 | EPLG3, LERK3, Ehk1-L | ephrin-A3 |
| EFNA5 | NM_001962.2 | EPLG7, AF1, LERK7 | ephrin-A5 |
| EGF | NM_001963.3 | | epidermal growth factor |
| EGFR | NM_201282.1 | ERBB, ERBB1 | epidermal growth factor receptor |
| EIF4EBP1 | NM_004095.3 | PHAS-I, 4E-BP1 | eukaryotic translation initiation factor 4E binding protein 1 |
| ENDOG | NM_004435.2 | | endonuclease G |
| EP300 | NM_001429.2 | p300, KAT3B | E1A binding protein p300 |
| EPHA2 | NM_004431.2 | ECK | EPH receptor A2 |
| EPO | NM_000799.2 | EP | erythropoietin |
| EPOR | NM_000121.2 | | erythropoietin receptor |
| ERBB2 | NM_004448.2 | NGL, NEU, HER-2, CD340, HER2 | v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2 |
| ERCC2 | NM_000400.2 | XPD, MAG, EM9, MGC102762, MGC126218, MGC126219 | excision repair cross-complementing rodent repair deficiency, complementation group 2 |
| ERCC6 | NM_000124.2 | CKN2, CSB, RAD26, ARMD5 | excision repair cross-complementing rodent repair deficiency, complementation group 6 |
| ETS2 | NM_005239.4 | | v-ets avian erythroblastosis virus E26 oncogene homolog 2 |
| ETV1 | NM_004956.4 | ER81 | ets variant 1 |
| ETV4 | NM_001079675.1 | E1A-F, E1AF | ets variant 4 |
| ETV7 | NM_016135.2 | TEL2, TEL-2 | ets variant 7 |
| EYA1 | NM_172059.2 | BOR | eyes absent homolog 1 (Drosophila) |
| EZH2 | NM_004456.3 | EZH1, ENX-1, KMT6, KMT6A | enhancer of zeste homolog 2 (Drosophila) |
| FANCA | NM_000135.2 | FACA, FANCH, FAA, FA-H, FAH | Fanconi anemia, complementation group A |
| FANCB | NM_152633.2 | FAB, FLJ34064, FAAP95 | Fanconi anemia, complementation group B |
| FANCC | NM_000136.2 | FACC, FAC, FA3 | Fanconi anemia, complementation group C |
| FANCE | NM_021922.2 | FACE, FAE | Fanconi anemia, complementation group E |
| FANCF | NM_022725.2 | FAF | Fanconi anemia, complementation group F |
| FANGG | NM_004629.1 | XRCC9, FAG | Fanconi anemia, complementation group G |
| FANCL | NM_001114636.1 | PHF9, FLJ10335, FAAP43, Pog | Fanconi anemia, complementation group L |
| FAS | NM_152876.1 | FAS1, APT1, TNFRSF6, CD95, APO-1 | Fas cell surface death receptor |
| FASLG | NM_000639.1 | APT1LG1, TNFSF6, FasL, CD178 | Fas ligand (TNF superfamily, member 6) |
| FBXW7 | NM_018315.4 | AGO, FLJ11071, SEL-10, SEL10, FBW7, FBX30, CDC4, FBXW6 | F-box and WD repeat domain containing 7, E3 ubiquitin protein ligase |
| FEN1 | NM_004111.4 | RAD2, FEN-1, MF1 | flap structure-specific endonuclease 1 |
| FGF1 | NM_033137.1 | FGFA, AFGF, ECGF, ECGFA, ECGFB, HBGF1, ECGF-beta, FGF-alpha, | fibroblast growth factor 1 (acidic) |
| FGF10 | NM_004465.1 | | fibroblast growth factor 10 |
| FGF11 | NM_004112.2 | FHF3, FLJ16061, MGC45269, MGC102953 | fibroblast growth factor 11 |
| FGF12 | NM_004113.4 | FGF12B, FHF1 | fibroblast growth factor 12 |
| FGF13 | NM_03642.1 | FHF2, FGF2 | fibroblast growth factor 13 |
| FGF14 | NM_004115.3 | FHF4, SCA27 | fibroblast growth factor 14 |
| FGF16 | NM_003868.1 | | fibroblast growth factor 16 |
| FGF17 | NM_003867.2 | FGF-13 | fibroblast growth factor 17 |
| FGF18 | NM_003862.1 | FGF-18, ZFGF5 | fibroblast growth factor 18 |
| FGF19 | NM_005117.2 | | fibroblast growth factor 19 |
| FGF2 | NM_002006.4 | FGFB | fibroblast growth factor 2 (basic) |
| FGF20 | NM_019851.1 | | fibroblast growth factor 20 |
| FGF21 | NM_019113.2 | | fibroblast growth factor 21 |
| FGF22 | NM_020637.1 | | fibroblast growth factor 22 |
| FGF23 | NM_020638.2 | | fibroblast growth factor 23 |
| FGF3 | NM_005247.2 | INT2, HBGF-3 | fibroblast growth factor 3 |
| FGF4 | NM_002007.2 | HSTF1, K-FGF, HBGF-4, HST, HST-1, KFGF | fibroblast growth factor 4 |
| FGF5 | NM_004464.3 | | fibroblast growth factor 5 |

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| FGF6 | NM_020996.1 | | fibroblast growth factor 6 | |
| FGF7 | NM_002009.3 | KGF | fibroblast growth factor 7 | |
| FGF8 | NM_03163.3 | AIGF | fibroblast growth factor 8 (androgen-induced) | |
| FGF9 | NM_002010.2 | | fibroblast growth factor 9 | |
| FGFR1 | NM_015850.2 | FLT2, KAL2, H2, H3, H4, H5, CEK, FLG, BFGFR, N-SAM, CD331 | fibroblast growth factor receptor 1 | |
| FGFR2 | NM_000141.4 | KGFR, BEK, CFD1, JWS, CEK3, TK14, TK25, ECT1, K-SAM, CD332 | fibroblast growth factor receptor 2 | |
| FGFR3 | NM_022965.2 | ACH, CEK2, JTK4, CD333 | fibroblast growth factor receptor 3 | |
| FGFR4 | NM_002011.3 | JTK2, CD334 | fibroblast growth factor receptor 4 | |
| FIGF | NM_004469.2 | VEGFD, VEGF-D | c-fos induced growth factor (vascular endothelial growth factor D) | |
| FLNA | NM_001456.3 | FLN1, FLN, OPD2, OPD1, ABP-280 | filamin A, alpha | |
| FLNC | NM_001127487.1 | FLN2, ABP-280, ABPL | filamin C, gamma | |
| FLT1 | NM_002019.4 | FLT, VEGFR1 | fms-related tyrosine kinase 1 | |
| FLT3 | NM_004119.1 | STK1, FLK2, CD135 | fms-related tyrosine kinase 3 | |
| FN1 | NM_212482.1 | MSF, CIG, LETS, GFND2, FINC | fibronectin 1 | |
| FOS | NM_005252.2 | c-fos, AP-1 | FBJ murine osteosarcoma viral oncogene homolog | |
| FOSL1 | NM_005438.2 | fra-1 | FOS-like antigen 1 | |
| FOXL2 | NM_023067.2 | BPES, BPES1 | forkhead box L2 | |
| FOXO4 | NM_005938.2 | MLLT7, AFX1 | forkhead box O4 | |
| FST | NM_006350.2 | FS | folistatin | |
| FUBP1 | NM_003902.3 | FUBP, FBP | far upstream element (FUSE) binding protein 1 | |
| FUT8 | NM_004480.4 | | fucosyltransferase 8 (alpha (1,6) fucosyltransferase) | |
| FZD10 | NM_007197.2 | CD350 | frizzled family receptor 10 | |
| FZD2 | NM_001466.2 | | frizzled family receptor 2 | |
| FZD3 | NM_017412.2 | | frizzled family receptor 3 | |
| FZD7 | NM_003507.1 | FzE3 | frizzled family receptor 7 | |
| FZD8 | NM_031866.1 | | frizzled family receptor 8 | |
| FZD9 | NM_003508.2 | FZD3, CD349 | frizzled family receptor 9 | |
| GADD45A | NM_001924.2 | DDIT1, GADD45 | growth arrest and DNA-damage-inducible, alpha | |
| GADD45B | NM_015675.2 | MYD118, GADD45BETA, DKFP566B133 | growth arrest and DNA-damage-inducible, beta | |
| GADD45G | NM_006705.3 | DDIT2, GADD45gamma, GRP17, CR6 | growth arrest and DNA-damage-inducible, gamma | |
| GAS1 | NM_002048.2 | | growth arrest-specific 1 | |
| GATA1 | NM_002049.2 | GF1, ERYF1, NFE1, GATA-1, NF-E1 | GATA binding protein 1 (globin transcription factor 1) | |
| GATA2 | NM_032638.3 | NFE1B | GATA binding protein 2 | |
| GATA3 | NM_001002295.1 | HDR | GATA binding protein 3 | |
| GDF6 | NM_001001557.2 | BMP13 | growth differentiation factor 6 | |
| GHR | NM_000163.2 | GHBP | growth hormone receptor | |
| GLI1 | NM_005269.1 | GLI | GLI family zinc finger 1 | |
| GLI3 | NM_000168.5 | GCPS, PHS, PAP-A, PAPA, PAPA1, PAPB, ACLS, PPDIV | GLI family zinc finger 3 | |
| GNA11 | NM_002067.1 | | guanine nucleotide binding protein (G protein), alpha 11 (Gq class) | |
| GNAQ | NM_002072.2 | G-ALPHA-q, GAQ | guanine nucleotide binding protein (G protein), q polypeptide | |
| GNAS | NM_080425.1 | GNAS1, NESP55, NESP, GNASXL, GPSA, SCG6 | GNAS complex locus | |
| GNG12 | NM_018841.3 | | guanine nucleotide binding protein (G protein), gamma 12 | |
| GNG4 | NM_004485.2 | | guanine nucleotide binding protein (G protein), gamma 4 | |
| GNG7 | NM_052847.1 | FLJ00058 | guanine nucleotide binding protein (G protein), gamma 7 | |
| GNGT1 | NM_021955.3 | GNG1 | guanine nucleotide binding protein (G protein), gamma transducing activity polypeptide 1 | |
| GPC4 | NM_001448.2 | K-glycan | glycan 4 | |
| GRB2 | NM_002086.4 | NCKAP2 | growth factor receptor-bound protein 2 | |
| GRIA3 | NM_000828.4 | GLUR3, GluA3, GLURC, MRX94 | glutamate receptor, ionotropic, AMPA 3 | |
| GRIN1 | NM_000832.5 | NMDAR1, GluN1 | glutamate receptor, ionotropic, N-methyl D-aspartate 1 | |
| GRIN2A | NM_000833.3 | NMDAR2A, GluN2A | glutamate receptor, ionotropic, N-methyl D-aspartate 2A | |
| GRIN2B | NM_000834.3 | NMDAR2B, GluN2B | glutamate receptor, ionotropic, N-methyl D-aspartate 2B | |
| GSK3B | NM_002093.2 | | glycogen synthase kinase 3 beta | |
| GTF2H3 | NM_001516.3 | BTF2, TFIIH, P34 | general transcription factor IIIH, polypeptide 3, 34kDa | |
| GZMB | NM_004131.3 | CTLA1, CSPB, CCPI, CGL-1, CSP-B, CGL1, CTSG1, HLP, SECT | granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1) | |
| H2AFX | NM_002105.2 | H2AX | H2A histone family, member X | |
| H3F3A | NM_002107.3 | H3F3, H3.3A | H3 histone, family 3A | |
| H3F3C | NM_001013699.2 | H3.5 | H3 histone, family 3C | |
| HDAC1 | NM_004964.2 | RPD3L1, HD1, GON-10 | histone deacetylase 1 | |
| HDAC10 | NM_032019.5 | DKFP761B039 | histone deacetylase 10 | |
| HDAC11 | NM_024827.3 | | histone deacetylase 11 | |
| HDAC2 | NM_001527.1 | RPD3, YAF1 | histone deacetylase 2 | |
| HDAC4 | NM_006037.3 | KIAA0288, HDAC-A, HDACA, HD4, HA6116, HDAC-4 | histone deacetylase 4 | |
| HDAC5 | NM_005474.4 | KIAA0600, NY-CO-9, FLJ90614 | histone deacetylase 5 | |
| HDAC6 | NM_006044.2 | KIAA0901, JM21, HD6, FLJ16239 | histone deacetylase 6 | |
| HELLS | NM_018063.3 | PASG, SMARCA6, LSH, Nbla10143 | helicase, lymphoid-specific | |
| HES1 | NM_005524.2 | HRY, FLJ20408, HES-1, Hes1, bHLHb39 | hes family bHLH transcription factor 1 | |
| HES5 | NM_001010926.3 | bHLHb38 | hes family bHLH transcription factor 5 | |
| HGF | NM_000601.4 | DFNB39, SF, F-TCF, HGFB, HPTA | hepatocyte growth factor (hepatopoietin A; scatter factor) | |
| HHEX | NM_002729.4 | PRHX, HEX, HOX11L-PEN | hematopoietically expressed homeobox | |
| HHIP | NM_022475.1 | HIP, FLJ20992 | hedgehog interacting protein | |
| HIST1H3B | NM_003537.3 | H3FL, H3/l | histone cluster 1, H3b | |
| HIST1H3G | NM_003534.2 | H3FH, H3/h | histone cluster 1, H3g | |
| HIST1H3H | NM_003536.2 | H3FK, H3/k, H3F1K | histone cluster 1, H3h | |
| HMGAA1 | NM_145904.1 | HMGY | high mobility group AT-hook 1 | |
| HMGAA2 | NM_003484.1 | HMGIC, BABL, LIPO | high mobility group AT-hook 2 | |
| HNF1A | NM_000545.4 | MODY3, TCF1, HNF1, LFB1 | HNF1 homeobox A | |
| HOXA10 | NM_018951.3 | HOX1H, HOX1 | homeobox A10 | |
| HOXA11 | NM_005523.5 | HOX1I, HOX1 | homeobox A11 | |
| HOXA9 | NM_152739.3 | HOX1G, HOX1 | homeobox A9 | |
| HPGD | NM_001145816.2 | SDR36C1 | hydroxyprostaglandin dehydrogenase 15-(NAD) | |
| HRAS | NM_005343.2 | HRAS1 | Harvey rat sarcoma viral oncogene homolog | |
| HSP90B1 | NM_003299.1 | TRA1, GP96, GRP94 | heat shock protein 90kDa beta (Grp94), member 1 | |
| HSPA1A | NM_005345.5 | HSPA1, HSP70-1 | heat shock 70kDa protein 1A | |
| HSPA2 | NM_021979.3 | | heat shock 70kDa protein 2 | |
| HSPA6 | NM_002155.3 | | heat shock 70kDa protein 6 (HSP70B') | |
| HSPB1 | NM_001540.3 | HSP27, HSP28, Hs.76067, Hsp25 | heat shock 27kDa protein 1 | |
| IBSP | NM_004967.3 | BSP, SP-II, BSP-II | integrin-binding sialoprotein | |
| ID1 | NM_002165.2 | dJ857M17.1.2, bHLHb24 | inhibitor of DNA binding 1, dominant negative helix-loop-helix protein | |
| ID2 | NM_002166.4 | GIG8, bHLHb26 | inhibitor of DNA binding 2, dominant negative helix-loop-helix protein | |
| ID4 | NM_001546.2 | bHLHb27 | inhibitor of DNA binding 4, dominant negative helix-loop-helix protein | |
| IDH1 | NM_005896.2 | | isocitrate dehydrogenase 1 (NADP+), soluble | |
| IDH2 | NM_002168.2 | | isocitrate dehydrogenase 2 (NADP+), mitochondrial | |
| IFNA17 | NM_021268.2 | LEIF2C1, IFN-alpha1 | interferon, alpha 17 | |
| IFNA2 | NM_000605.3 | IFNA, IFN-alphaA | interferon, alpha 2 | |
| IFNA7 | NM_021057.2 | IFNA-J, IFN-alphaJ | interferon, alpha 7 | |
| IFNG | NM_000619.2 | | interferon, gamma | |
| IGF1 | NM_000618.3 | IGF1A | insulin-like growth factor 1 (somatomedin C) | |
| IGF1R | NM_000875.2 | JTK13, CD221, IGFIR, MGC18216, IGFR | insulin-like growth factor 1 receptor | |
| IGFBP3 | NM_000598.4 | IBP3, BP-53 | insulin-like growth factor binding protein 3 | |
| IKBKB | NM_001556.1 | IKK2, NFKBIKB, IKK-beta, IKKB | inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta | |
| IKBKG | NM_003639.2 | IP2, IP1, IKK-gamma, NEMO, Fip3p, FIP-3, FIP3, ZC2HC9 | inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase gamma | |
| IL10 | NM_000572.2 | CSIF, TGIF, IL10A, IL-10 | interleukin 10 | |
| IL11 | NM_000641.2 | IL-11, AGIF | interleukin 11 | |
| IL11RA | NM_147162.1 | | interleukin 11 receptor, alpha | |
| IL12A | NM_000882.2 | NKSF1, CLMF, IL-12A, p35, NFSK | interleukin 12A (natural killer cell stimulatory factor 1, cytotoxic lymphocyte maturation factor 1, p35) | |
| IL12B | NM_002187.2 | NKSF2, CLMF, IL-12B, NKSF, CLMF2 | interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturation factor 2, p40) | |
| IL12RB2 | NM_001559.2 | | interleukin 12 receptor, beta 2 | |
| IL13 | NM_002188.2 | P600, IL-13, ALRH, BHR1, MGC116786, MGC116788, MGC116789 | interleukin 13 | |
| IL13RA2 | NM_000640.2 | IL-13R, IL13BP, CD213a2, CT19 | interleukin 13 receptor, alpha 2 | |
| IL15 | NM_172174.1 | IL-15, MGC9721 | interleukin 15 | |
| IL19 | NM_013371.3 | IL-19, MDA1, ZMDA1, IL-10C, NG.1 | interleukin 19 | |
| IL1A | NM_000575.3 | IL1, IL1F1, IL-1A, IL1-ALPHA | interleukin 1, alpha | |
| IL1B | NM_000576.2 | IL1F2, IL-1B, IL1-BETA | interleukin 1, beta | |

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| IL1R1 | NM_000877.2 | IL1R, IL1RA, D2S1473, CD121A | interleukin 1 receptor, type I |
| IL1R2 | NM_173343.1 | IL1RB, CD121b | interleukin 1 receptor, type II |
| IL1RAP | NM_002182.2 | IL-1RAcP, IL1R3, C3orf13 | interleukin 1 receptor accessory protein |
| IL20RA | NM_04432.2 | ZCYTOR7, IL-20R1 | interleukin 20 receptor, alpha |
| IL20RB | NM_144717.2 | FNDC6, DIRS1, IL-20R2, MGC34923 | interleukin 20 receptor beta |
| IL22RA1 | NM_021258.2 | IL22R, CRF2-9 | interleukin 22 receptor, alpha 1 |
| IL22RA2 | NM_181309.1 | CRF2-S1, IL-22BP | interleukin 22 receptor, alpha 2 |
| IL23A | NM_016584.2 | SGRF, IL23P19, IL-23, IL-23A, P19 | interleukin 23, alpha subunit p19 |
| IL23R | NM_144701.2 | IL-23R | interleukin 23 receptor |
| IL24 | NM_181339.1 | ST16, mda-7, IL10B, Mob-5, C49A, FISP, IL-24 | interleukin 24 |
| IL2RA | NM_000417.1 | IL2R, CD25 | interleukin 2 receptor, alpha |
| IL2RB | NM_000878.2 | IL15RB, CD122 | interleukin 2 receptor, beta |
| IL3 | NM_000588.3 | IL-3, MULTI-CSF, MCGF, MGC79398, MGC79399 | interleukin 3 (colony-stimulating factor, multiple) |
| IL3RA | NM_002183.2 | CD123 | interleukin 3 receptor, alpha (low affinity) |
| IL5RA | NM_000564.3 | IL5R, CDw125, CD125 | interleukin 5 receptor, alpha |
| IL6 | NM_000600.1 | IFNB2, IL-6, BSF2, HGF, HSF | interleukin 6 (interferon, beta 2) |
| IL6R | NM_000565.2 | CD126 | interleukin 6 receptor |
| IL7 | NM_000880.2 | IL-7 | interleukin 7 |
| IL7R | NM_002185.2 | CD127 | interleukin 7 receptor |
| IL8 | NM_000584.2 | SCYBB, LUCT, LECT, MDNCF, TSG-1, CXCL8, IL-8, NAP-1, 3-10C, MO | interleukin 8 |
| INHBA | NM_002192.2 | | inhibin, beta A |
| INHBB | NM_002193.2 | | inhibin, beta B |
| IRAK2 | NM_001570.3 | | interleukin-1 receptor-associated kinase 2 |
| IRAK3 | NM_007199.1 | IRAK-M | interleukin-1 receptor-associated kinase 3 |
| IRS1 | NM_005544.2 | HIRS-1 | insulin receptor substrate 1 |
| ITGA2 | NM_002203.2 | CD49B, CD49b | integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor) |
| ITGA3 | NM_005501.2 | MSK18, CD49c, VLA3a, VCA-2, GAP-B3 | integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor) |
| ITGA6 | NM_000210.1 | CD49f | integrin, alpha 6 |
| ITGA7 | NM_002206.1 | | integrin, alpha 7 |
| ITGA8 | NM_003638.1 | | integrin, alpha 8 |
| ITGA9 | NM_002207.2 | RLC, ITGA4L, ALPHA-RLC | integrin, alpha 9 |
| ITGB3 | NM_000212.2 | GP3A, CD61, GPIIia | integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61) |
| ITGB4 | NM_001005731.1 | CD104 | integrin, beta 4 |
| ITGB6 | NM_001282353.1 | | integrin, beta 6 |
| ITGB7 | NM_000889.1 | | integrin, beta 7 |
| ITGB8 | NM_002214.2 | | integrin, beta 8 |
| JAG1 | NM_000214.2 | AGS, JAGL1, AHD, AWS, HJ1, CD339 | jagged 1 |
| JAG2 | NM_145159.1 | | jagged 2 |
| JAK1 | NM_002227.1 | JAK1B, JAK1A, JTK3 | Janus kinase 1 |
| JAK2 | NM_004972.2 | JTK10 | Janus kinase 2 |
| JAK3 | NM_000215.2 | L-JAK, JAKL, LJAK, JAK3_HUMAN, JAK-3 | Janus kinase 3 |
| JUN | NM_002228.3 | c-Jun, AP-1 | jun proto-oncogene |
| KAT2B | NM_003884.3 | PCAF, P/CAF, GCN5, GCN5L | K(lysine) acetyltransferase 2B |
| KDM5C | NM_004187.2 | SMCX, JARID1C, DXS1272E, XE169 | lysine (K)-specific demethylase 5C |
| KDM6A | NM_021140.2 | UTX | lysine (K)-specific demethylase 6A |
| KIT | NM_000222.1 | PBT, CD117, SCFR, C-Kit | v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog |
| KITLG | NM_003994.4 | MGF, SCF, SF, Kitl, KL-1, FPH2 | KIT ligand |
| KLF4 | NM_004235.4 | EZF, GKLF | Kruppel-like factor 4 (gut) |
| KMT2C | NM_170606.2 | MLL3, KIAA1506, HALR | lysine (K)-specific methyltransferase 2C |
| KMT2D | NM_003482.3 | TNRC21, MLL2, ALR, MLL4, CAGL114 | lysine (K)-specific methyltransferase 2D |
| KRAS | NM_004985.3 | KRAS2, KRAS1 | Kirsten rat sarcoma viral oncogene homolog |
| LAMA1 | NM_005559.2 | LAMA | laminin, alpha 1 |
| LAMA3 | NM_000227.3 | LAMNA, nicein-150kDa, kalinin-165kDa, BM600-150kDa, epiligrin | laminin, alpha 3 |
| LAMA5 | NM_005560.3 | | laminin, alpha 5 |
| LAMB3 | NM_000228.2 | LAMNB1, nicein-125kDa, kalinin-140kDa, BM600-125kDa | laminin, beta 3 |
| LAMB4 | NM_007356.2 | | laminin, beta 4 |
| LAMC2 | NM_005562.2 | EBR2, LAMB2T, LAMNB2, EBR2A, nicein-100kDa, kalinin-105kDa, B | laminin, gamma 2 |
| LAMC3 | NM_006059.3 | DKFZp434E202 | laminin, gamma 3 |
| LAT | NM_001014987.1 | LAT1 | linker for activation of T cells |
| LEF1 | NM_016269.3 | TCF1ALPHA, TCF10, TCF7L3 | lymphoid enhancer-binding factor 1 |
| LEFTY1 | NM_020997.2 | LEFTB, LEFTYB | left-right determination factor 1 |
| LEFTY2 | NM_003240.2 | TGFB4, EBAF, LEFTA, LEFTYA | left-right determination factor 2 |
| LEP | NM_000230.2 | OBS, OB | leptin |
| LEPR | NM_001003679.1 | OBR, CD295 | leptin receptor |
| LFNG | NM_001040168.1 | SCDO3 | LFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase |
| LIF | NM_002309.3 | CDF, DIA, HILDA | leukemia inhibitory factor |
| LIFR | NM_002310.3 | CD118 | leukemia inhibitory factor receptor alpha |
| LIG4 | NM_002312.3 | | ligase IV, DNA, ATP-dependent |
| LRP2 | NM_004525.2 | gp330, DBS | low density lipoprotein receptor-related protein 2 |
| LTPB1 | NM_000627.3 | | latent transforming growth factor beta binding protein 1 |
| MAD2L2 | NM_001127325.1 | MAD2B, REV7, POLZ2 | MAD2 mitotic arrest deficient-like 2 (yeast) |
| MAML2 | NM_032427.1 | KIAA1819, MAM3 | mastermind-like 2 (Drosophila) |
| MAP2K1 | NM_002755.2 | PRKMK1, MEK1, MAPKK1 | mitogen-activated protein kinase kinase 1 |
| MAP2K2 | NM_030662.2 | PRKMK2, MEK2 | mitogen-activated protein kinase kinase 2 |
| MAP2K4 | NM_003010.2 | SERK1, MEK4, JNK1, PRKMK4, MKK4 | mitogen-activated protein kinase kinase 4 |
| MAP2K6 | NM_002758.3 | PRKMK6, MEK6, MKK6, SAPKK3, MAPKK6 | mitogen-activated protein kinase kinase 6 |
| MAP3K1 | NM_005921.1 | MEKK1, MEKK, MAPKKK1 | mitogen-activated protein kinase kinase kinase 1, E3 ubiquitin protein ligase |
| MAP3K12 | NM_006301.2 | ZPK, MUK, DLK, ZPK1, MEKK12 | mitogen-activated protein kinase kinase kinase 12 |
| MAP3K13 | NM_004721.3 | LZK, MEKK13 | mitogen-activated protein kinase kinase kinase 13 |
| MAP3K14 | NM_003954.1 | NIK, HSNIK, FTDCR1B, HS | mitogen-activated protein kinase kinase kinase 14 |
| MAP3K5 | NM_005923.3 | MEKK5, MAPKKK5, ASK1 | mitogen-activated protein kinase kinase kinase 5 |
| MAP3K8 | NM_005204.2 | COT, ESTF, Tpl-2, EST, c-COT, MEKK8 | mitogen-activated protein kinase kinase 8 |
| MAPK1 | NM_138957.2 | PRKM2, PRKM1, ERK, ERK2, p41mapk, MAPK2 | mitogen-activated protein kinase 1 |
| MAPK10 | NM_002753.2 | PRKM10, JNK3, p493F12, p54bSAPK | mitogen-activated protein kinase 10 |
| MAPK12 | NM_002969.3 | SAPK3, ERK6, PRKM12, p38gamma, SAPK-3 | mitogen-activated protein kinase 12 |
| MAPK3 | NM_001040056.1 | PRKM3, ERK1, p44mapk, p44erk1 | mitogen-activated protein kinase 3 |
| MAPK8 | NM_002750.2 | PRKM8, JNK, JNK1, SAPK1 | mitogen-activated protein kinase 8 |
| MAPK8IP1 | NM_005456.2 | PRKM8IP, IB1, JIP-1, JIP1 | mitogen-activated protein kinase 8 interacting protein 1 |
| MAPK8IP2 | NM_012324.2 | PRKM8IP1, IB2, JIP2 | mitogen-activated protein kinase 8 interacting protein 2 |
| MAPK9 | NM_139068.2 | PRKM9, JNK2, p54a, SAPK | mitogen-activated protein kinase 9 |
| MAPT | NM_016834.3 | DDPAC, MAPTL, MTBT1, tau, PPND, FTDP-17, TAU, MSTD, MTBT2, I | microtubule-associated protein tau |
| MCM2 | NM_004526.2 | CCNL1, CDCL1, D3S3194, KIAA0030, BM28, cdc19 | minichromosome maintenance complex component 2 |
| MCM4 | NM_182746.1 | CDC21, CDC54, hCdc21, P1-Cdc21, MGC33310 | minichromosome maintenance complex component 4 |
| MCM5 | NM_006739.3 | CDC46 | minichromosome maintenance complex component 5 |
| MCM7 | NM_182776.1 | MCM2, CDC47 | minichromosome maintenance complex component 7 |
| MDC1 | NM_014641.2 | NFBD1, KIAA0170, Em:AB023051.5 | mediator of DNA-damage checkpoint 1 |
| MDM2 | NM_006878.2 | HDM2, HDMX, MG5370 | MDM2 oncogene, E3 ubiquitin protein ligase |
| MECOM | NM_005241.2 | MDS1, EVI1, MDS1-EVI1, PRDM3 | MDS1 and EVI1 complex locus |
| MED12 | NM_005120.2 | TNRC11, FGS1, CAGH45, HOPA, OPA1, TRAP230, KIAA0192, OKS | mediator complex subunit 12 |
| MEN1 | NM_130802.2 | | multiple endocrine neoplasia 1 |
| MET | NM_000245.2 | HGFR, RCCP2 | met proto-oncogene |
| MFNG | NM_002405.2 | | MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase |
| MGMT | NM_002412.3 | | O-6-methylguanine-DNA methyltransferase |
| MLF1 | NM_022443.3 | | myeloid leukemia factor 1 |
| MLH1 | NM_000249.2 | COCA2, HNPCC, FCC2, HNPCC2 | mutL homolog 1 |
| MLLT3 | NM_004529.2 | AF-9, AF9, YEATS3 | myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 3 |
| MLLT4 | NM_005936.2 | AF-6, AF6 | myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 4 |
| MMP3 | NM_002422.3 | STMY1, STMY | matrix metalloproteinase 3 (stromelysin 1, progelatinase) |
| MMP7 | NM_002423.3 | MPSL1, PUMP-1 | matrix metalloproteinase 7 (matrilysin, uterine) |
| MMP9 | NM_004994.2 | CLG4B | matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase) |
| MNAT1 | NM_002431.2 | MAT1, RNF66 | MNAT CDK-activating kinase assembly factor 1 |
| MPL | NM_005373.2 | CD110, TPOR | myeloproliferative leukemia virus oncogene |
| MPO | NM_000250.1 | | myeloperoxidase |

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|----------|----------------|---|---|
| MSH2 | NM_000251.1 | COCA1, HNPCC, HNPPC1 | mutS homolog 2 |
| MSH6 | NM_000179.1 | GTBP | mutS homolog 6 |
| MTOR | NM_004958.2 | FRAP, FRAP2, FRAP1, RAFT1, RAPT1, FLJ44809 | mechanistic target of rapamycin (serine/threonine kinase) |
| MUTYH | NM_012222.2 | MYH | mutY homolog |
| MYB | NM_005375.2 | c-myb | v-myb avian myeloblastosis viral oncogene homolog |
| MYC | NM_002467.3 | c-Myc, bHLHe39, MYCNOT | v-myc avian myelocytomatosis viral oncogene homolog |
| MYCN | NM_005378.4 | NYMYC, bHLHe37, N-myc, MYCNOT | v-myc avian myelocytomatosis viral oncogene neuroblastoma derived homolog |
| MYD88 | NM_002468.3 | | myeloid differentiation primary response 88 |
| NASP | NM_172164.1 | FLB7527, FLJ31599, FLJ35510, MGC19722, MGC20372, MGC2297, t | nuclear autoantigenic sperm protein (histone-binding) |
| NBN | NM_001024688.1 | NBS, NBS1, ATV, AT-V2, AT-V1 | nibrin |
| NCOR1 | NM_006311.3 | N-CoR, hCIT529I10, TRAC1, hN-CoR, KIAA1047, MGC104216 | nuclear receptor corepressor 1 |
| NF1 | NM_000267.2 | | neurofibromin 1 |
| NF2 | NM_181828.2 | merlin | neurofibromin 2 (merlin) |
| NFATC1 | NM_172389.1 | NF-ATC, NFATc, NFAT2 | nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1 |
| NFE2L2 | NM_006164.3 | NRF2 | nuclear factor, erythroid 2-like 2 |
| NFKB1 | NM_003998.2 | KBF1, p105, NFKB-p50, p50, NF-kappaB, NFkappaB, NF-kB1 | nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 |
| NFKBIA | NM_020529.1 | NFKB1, IKBA, MAD-3, IkappaBalpha | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha |
| NFKBIZ | NM_001005474.1 | MAIL, FLJ34463, INAP | nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta |
| NGF | NM_002506.2 | NGFB | nerve growth factor (beta polypeptide) |
| NGFR | NM_002507.1 | TNFRSF16, CD271, p75NTR | nerve growth factor receptor |
| NKD1 | NM_033119.3 | | naked cuticle homolog 1 (<i>Drosophila</i>) |
| NODAL | NM_018055.3 | | nodal growth differentiation factor |
| NOG | NM_005450.4 | SYNS1, SYM1 | noggin |
| NOS3 | NM_000603.4 | ECNOS, eNOS | nitric oxide synthase 3 (endothelial cell) |
| NOTCH1 | NM_017617.3 | TAN1 | notch 1 |
| NOTCH2 | NM_024408.3 | | notch 2 |
| NOTCH3 | NM_000435.2 | CADASIL, CASIL | notch 3 |
| NPM1 | NM_002520.5 | B23, NPM | nucleophosmin (nucleolar phosphoprotein B23, numatrin) |
| NPM2 | NM_182795.1 | | nucleophosmin/nucleoplasmin 2 |
| NR4A1 | NM_173157.1 | HMR, GFRP1, TR3, N10, NAK-1, NGFIB, NUR77 | nuclear receptor subfamily 4, group A, member 1 |
| NR4A3 | NM_173198.1 | CSMF, CHN, NOR1, MINOR | nuclear receptor subfamily 4, group A, member 3 |
| NRAS | NM_002524.3 | N-ras | neuroblastoma RAS viral (v-ras) oncogene homolog |
| NSD1 | NM_022455.4 | STO, ARA267, FLJ22263, KMT3B | nuclear receptor binding SET domain protein 1 |
| NTF3 | NM_002527.4 | NGF2 | neurotrophin 3 |
| NTHL1 | NM_002528.5 | NTH1, OCTS3 | nth endonuclease III-like 1 (<i>E. coli</i>) |
| NTRK1 | NM_001012331.1 | TRK, TRKA, MTC | neurotrophic tyrosine kinase, receptor, type 1 |
| NTRK2 | NM_001007097.1 | TRKB | neurotrophic tyrosine kinase, receptor, type 2 |
| NUMBL | NM_004756.3 | NUMB-R, CTG3a, CAG3a, TNRC23, NUMBR, NUMBLIKE | numb homolog (<i>Drosophila</i>)-like |
| NUPR1 | NM_001042483.1 | COM1, p8 | nuclear protein, transcriptional regulator, 1 |
| OSM | NM_020530.3 | MGC20461 | oncostatin M |
| PAK3 | NM_002578.2 | MRX30, MRX47, hPAK3, bPAK | p21 protein (Cdc42/Rac)-activated kinase 3 |
| PAK7 | NM_177990.1 | KIAA1264, PAK5 | p21 protein (Cdc42/Rac)-activated kinase 7 |
| PAX3 | NM_013942.3 | WS1, HUP2 | paired box 3 |
| PAX5 | NM_016734.1 | BSAP | paired box 5 |
| PAX8 | NM_013953.3 | | paired box 8 |
| PBRM1 | NM_181042.3 | BAF180, PB1 | polybromo 1 |
| PBX1 | NM_002585.2 | | pre-B-cell leukemia homeobox 1 |
| PBX3 | NM_006195.5 | | pre-B-cell leukemia homeobox 3 |
| PCK1 | NM_002591.2 | PEPCK-C | phosphoenolpyruvate carboxykinase 1 (soluble) |
| PCNA | NM_002592.2 | | proliferating cell nuclear antigen |
| PDGFA | NM_002607.5 | PDGF1, PDGF-A | platelet-derived growth factor alpha polypeptide |
| PDGFB | NM_033016.2 | SIS, SSV | platelet-derived growth factor beta polypeptide |
| PDGFC | NM_016205.1 | SCDFG, fallotein | platelet derived growth factor C |
| PDGFD | NM_025208.4 | SCDFG-B, MSTP036, IEGF | platelet derived growth factor D |
| PDGFRA | NM_006206.3 | CD140a, PDGFR2 | platelet-derived growth factor receptor, alpha polypeptide |
| PDGFRB | NM_002609.3 | PDGFR, JTK12, CD140b, PDGFR1 | platelet-derived growth factor receptor, beta polypeptide |
| PGF | NM_002632.5 | PGFL, PLGF, PLGF-2, PIGF, SHGC-10760, D12S1900 | placental growth factor |
| PHF6 | NM_032335.3 | BFLS, BORJ, KIAA1823, MGC14797, CENP-31 | PHD finger protein 6 |
| PIK3CA | NM_006218.2 | PI3K | phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit alpha |
| PIK3CB | NM_006219.1 | PIK3C1 | phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit beta |
| PIK3CD | NM_005026.3 | p110D | phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit delta |
| PIK3CG | NM_002649.2 | | phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit gamma |
| PIK3R1 | NM_181504.2 | GRB1, p85-ALPHA, p85 | phosphoinositide-3-kinase, regulatory subunit 1 (alpha) |
| PIK3R2 | NM_005027.2 | P85B, p85 | phosphoinositide-3-kinase, regulatory subunit 2 (beta) |
| PIK3R3 | NM_003629.3 | p55 | phosphoinositide-3-kinase, regulatory subunit 3 (gamma) |
| PIK3R5 | NM_001142633.1 | P101-PI3K, p101 | phosphoinositide-3-kinase, regulatory subunit 5 |
| PIM1 | NM_002648.2 | PIM | pim-1 oncogene |
| PTX2 | NM_000325.5 | IRID2, IHG2, RIEG, RIEG1, RGS, IGDS, RS, Brx1, Ottx2, ARP1 | paired-like homeodomain 2 |
| PKMYT1 | NM_004203.3 | MYT1 | protein kinase, membrane associated tyrosine/threonine 1 |
| PLA1A | NM_015900.2 | ps-PLA1 | phospholipase A1 member A |
| PLA2G10 | NM_003561.1 | GXPLA2 | phospholipase A2, group X |
| PLA2G2A | NM_000300.2 | PLA2B, PLA2L | phospholipase A2, group IIA (platelets, synovial fluid) |
| PLA2G3 | NM_015715.3 | GII-SPLA2 | phospholipase A2, group III |
| PLA2G4A | NM_024420.2 | PLA2G4, cPLA2-alpha | phospholipase A2, group IVA (cytosolic, calcium-dependent) |
| PLA2G4C | NM_003706.2 | cPLA2-gamma | phospholipase A2, group IVC (cytosolic, calcium-independent) |
| PLA2G4E | NM_001206670.1 | FLJ45651 | phospholipase A2, group IVE |
| PLA2G4F | NM_213600.2 | PLA2G4F/Z | phospholipase A2, group IVF |
| PLA2G5 | NM_000929.2 | | phospholipase A2, group V |
| PLAT | NM_000931.2 | | plasminogen activator, tissue |
| PLAU | NM_002658.2 | URK, UPA | plasminogen activator, urokinase |
| PLCB1 | NM_182734.1 | KIAA0581, PLC-I, PLC154 | phospholipase C, beta 1 (phosphoinositide-specific) |
| PLCB4 | NM_000933.3 | | phospholipase C, beta 4 |
| PLCE1 | NM_001165979.1 | KIAA1516, PLCE, NPHS3 | phospholipase C, epsilon 1 |
| PLCG2 | NM_002661.2 | | phospholipase C, gamma 2 (phosphatidylinositol-specific) |
| PLD1 | NM_002662.3 | | phospholipase D1, phosphatidylcholine-specific |
| PML | NM_002675.3 | MYL, TRIM19, RNF71 | promyelocytic leukemia |
| POLB | NM_002690.1 | | polymerase (DNA directed), beta |
| POLD1 | NM_002691.2 | POLD, CDC2 | polymerase (DNA directed), delta 1, catalytic subunit |
| POLD4 | NM_021173.2 | p12, POLDS | polymerase (DNA-directed), delta 4, accessory subunit |
| POLE2 | NM_002692.2 | DPE2 | polymerase (DNA-directed), epsilon 2, accessory subunit |
| POLR2D | NM_004805.3 | RBP4 | polymerase (RNA II (DNA directed) polypeptide D |
| POLR2H | NM_001278698.1 | RPB8 | polymerase (RNA II (DNA directed) polypeptide H |
| POLR2J | NM_006234.4 | RPB11, hRPB14, RPB11A, RPB11m, POLR2J1 | polymerase (RNA II (DNA directed) polypeptide J, 13.3kDa |
| PPARG | NM_015869.3 | PPARG1, PPARG2, NR1C3, PPARGamma | peroxisome proliferator-activated receptor gamma |
| PPARGC1A | NM_013261.3 | PPARGC1, PGC1, PGC1A | peroxisome proliferator-activated receptor gamma, coactivator 1 alpha |
| PPP2CB | NM_001009552.1 | PP2Abeta | protein phosphatase 2, catalytic subunit, beta isozyme |
| PPP2R1A | NM_014225.3 | PR65a, PP2A-Aalpha | protein phosphatase 2, regulatory subunit A, alpha |
| PPP2R2B | NM_181676.2 | SCA12, PR55-BETA, PR52B | protein phosphatase 2, regulatory subunit B, beta |
| PPP2R2C | NM_181876.2 | PR52, IMYPNO, MGC33570, PR55G | protein phosphatase 2, regulatory subunit B, gamma |
| PPP3CA | NM_000944.4 | CALN, CALNA, CNA1, PPP2B | protein phosphatase 3, catalytic subunit, alpha isozyme |
| PPP3CB | NM_001142354.1 | CALNB, CALNA2, CNA2, PP2Bbeta | protein phosphatase 3, catalytic subunit, beta isozyme |
| PPP3CC | NM_005605.3 | CALNA3, PP2Bgamma | protein phosphatase 3, catalytic subunit, gamma isozyme |
| PPP3R1 | NM_000945.3 | CALNB1, CNB, CNB1 | protein phosphatase 3, regulatory subunit B, alpha |
| PPP3R2 | NM_147180.2 | PPP3RL | protein phosphatase 3, regulatory subunit B, beta |
| PRDM1 | NM_182907.1 | BLIMP1, PRDI-BF1 | PR domain containing 1, with ZNF domain |
| PRKAA2 | NM_006252.2 | PRKAA, AMPK, AMPKa2 | protein kinase, AMP-activated, alpha 2 catalytic subunit |
| PRKACA | NM_002730.3 | PKACa | protein kinase, cAMP-dependent, catalytic, alpha |
| PRKACB | NM_182948.2 | PKACb | protein kinase, cAMP-dependent, catalytic, beta |
| PRKACG | NM_002732.2 | PKACg | protein kinase, cAMP-dependent, catalytic, gamma |
| PRKAR1B | NM_001164759.1 | | protein kinase, cAMP-dependent, regulatory, type I, beta |
| PRKAR2A | NM_004157.2 | PRKAR2 | protein kinase, cAMP-dependent, regulatory, type II, alpha |
| PRKAR2B | NM_002736.2 | PRKAR2 | protein kinase, cAMP-dependent, regulatory, type II, beta |
| PRKCA | NM_002737.2 | PKCA | protein kinase C, alpha |

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| PRKCB | NM_212535.1 | PRKCB2, PKCB, PRKCB1 | protein kinase C, beta |
| PRKCG | NM_002739.3 | PKCG, SCA14, PKCC, MGC57564 | protein kinase C, gamma |
| PRKDC | NM_006904.6 | HYRC, HYRC1, DNPK1, p350, DNAPK, XRCC7, DNA-PKcs | protein kinase, DNA-activated, catalytic polypeptide |
| PRKX | NM_005044.1 | PKX1 | protein kinase, X-linked |
| PRL | NM_000948.3 | | prolactin |
| PRLR | NM_001204318.1 | | prolactin receptor |
| PRMT8 | NM_019854.3 | HRMT1L3, HRMT1L4 | protein arginine methyltransferase 8 |
| PROM1 | NM_006017.1 | PROML1, MCDR2, STGD4, AC133, CD133, RP41, CORD12 | prominin 1 |
| PTCH1 | NM_000264.3 | NBCCS, PTCH, BCNS | patched 1 |
| PTCRA | NM_138296.2 | PTA, PT-ALPHA | pre T-cell antigen receptor alpha |
| PTEN | NM_000314.3 | BZS, MHAM, MMAC1, TEP1, PTEN1 | phosphatase and tensin homolog |
| PTPN11 | NM_002834.3 | NS1, BPTP3, SH-PTP2, SHP-2, PTP2C, SHP2 | protein tyrosine phosphatase, non-receptor type 11 |
| PTPN5 | NM_001039970.1 | STEP, PTPSTEP | protein tyrosine phosphatase, non-receptor type 5 (striatum-enriched) |
| PTPRR | NM_001207015.1 | PTPRQ, PTPBR7, PTP-SL, EC-PTP, PCPTP1 | protein tyrosine phosphatase, receptor type, R |
| PTTG2 | NM_006607.2 | | pituitary tumor-transforming 2 |
| RAC1 | NM_198829.1 | TC-25, p21-Rac1, Rac-1 | ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1) |
| RAC2 | NM_002872.3 | EN-7 | ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2) |
| RAC3 | NM_005052.2 | | ras-related C3 botulinum toxin substrate 3 (rho family, small GTP binding protein Rac3) |
| RAD21 | NM_006265.2 | KIAA0078, hHR21, SCC1 | RAD21 homolog (S. pombe) |
| RAD50 | NM_005732.2 | hRad50, RAD50-2 | RAD50 homolog (S. cerevisiae) |
| RAD51 | NM_133487.2 | RAD51A, RECA, HsRad51, HsT16930, BRCC5 | RAD51 recombinase |
| RAD52 | NM_134424.2 | | RAD52 homolog (S. cerevisiae) |
| RAF1 | NM_002880.2 | Raf-1, c-Raf, CRAF | v-raf-1 murine leukemia viral oncogene homolog 1 |
| RASA4 | NM_001079877.2 | KIAA0538, CAPRI, GAPL | RAS p21 protein activator 4 |
| RASAL1 | NM_004658.1 | RASAL | RAS protein activator like 1 (GAP1 like) |
| RASGRF1 | NM_153815.2 | GRF1, CDC25L, CDC25, GRF55, H-GRF55, GNRP, PP13187 | Ras protein-specific guanine nucleotide-releasing factor 1 |
| RASGRF2 | NM_006909.1 | GRF2, Ras-GRF2 | Ras protein-specific guanine nucleotide-releasing factor 2 |
| RASGRP1 | NM_005739.3 | CalDAG-GEFI, RASGRP | RAS guanyl releasing protein 1 (calcium and DAG-regulated) |
| RASGRP2 | NM_001098670.1 | CALDAG-GEFI | RAS guanyl releasing protein 2 (calcium and DAG-regulated) |
| RB1 | NM_000321.1 | OSRC, RB | retinoblastoma 1 |
| RBX1 | NM_014248.2 | ROC1, RNF75, BA554C12.1 | ring-box 1, E3 ubiquitin protein ligase |
| RELA | NM_021975.2 | NFKB3, p65 | v-rel avian reticuloendotheliosis viral oncogene homolog A |
| RELN | NM_005045.2 | RL, PRO1598 | reelin |
| RET | NM_020630.4 | HSCR1, MEN2A, MTC1, MEN2B, PTC, CDHF12, RET51, CDHR16 | ret proto-oncogene |
| RFC3 | NM_002915.3 | RFC38, MGC5276 | replication factor C (activator 1) 3, 38kDa |
| RFC4 | NM_181573.2 | A1, RFC37 | replication factor C (activator 1) 4, 37kDa |
| RHOA | NM_001664.2 | ARH12, ARHA, RhoA, Rho12, RHOH12 | ras homolog family member A |
| RIN1 | NM_004292.2 | | Ras and Rab interactor 1 |
| RNF43 | NM_017763.4 | FLJ20315, DKFZp781H0392, URCC | ring finger protein 43 |
| RPA3 | NM_002947.3 | REPA3 | replication protein A3, 14kDa |
| RPS27A | NM_002954.5 | UBCEP80, Uba80, S27A | ribosomal protein S27a |
| RPS6KA5 | NM_004755.2 | MSK1, RLPK | ribosomal protein S6 kinase, 90kDa, polypeptide 5 |
| RPS6KA6 | NM_014496.1 | RSK4 | ribosomal protein S6 kinase, 90kDa, polypeptide 6 |
| RRAS2 | NM_001102669.2 | TC21 | related RAS viral (r-ras) oncogene homolog 2 |
| RUNX1 | NM_001754.4 | AML1, CBFA2, PEBP2A2, AMLCR1 | runt-related transcription factor 1 |
| RUNX1T1 | NM_004349.2 | AML1T1, CBFA2T1, CDR, ETO, MTG8, ZMYND2 | runt-related transcription factor 1; translocated to, 1 (cyclin D-related) |
| RXRG | NM_006917.3 | NR2B3 | retinoid X receptor, gamma |
| SETBP1 | NM_015559.2 | SEB, KIAA0437 | SET binding protein 1 |
| SETD2 | NM_014159.6 | HYPB, HIF-1, KIAA1732, FLJ23184, KMT3A | SET domain containing 2 |
| SF3B1 | NM_001005526.1 | SAP155, SF3b155, PRPF10, Prp10, Hsh155 | splicing factor 3b, subunit 1, 155kDa |
| SFN | NM_006142.3 | YWHAS | stratin |
| SFRP1 | NM_003012.3 | SARP2, FRP, FRP-1 | secreted frizzled-related protein 1 |
| SFRP2 | NM_003013.2 | SARP1, SDF-5, FRP-2 | secreted frizzled-related protein 2 |
| SFRP4 | NM_003014.2 | frpHE, FRP-4, FRPHE | secreted frizzled-related protein 4 |
| SGK2 | NM_170693.1 | | serum/glucocorticoid regulated kinase 2 |
| SHC1 | NM_183001.4 | SHC, p66 | SHC (Src homology 2 domain containing) transforming protein 1 |
| SHC2 | NM_012435.2 | SLI, SCK, SHCB | SHC (Src homology 2 domain containing) transforming protein 2 |
| SHC3 | NM_016848.5 | N-Shc, NSHC, SHCC | SHC (Src homology 2 domain containing) transforming protein 3 |
| SHC4 | NM_203349.2 | RaLP | SHC (Src homology 2 domain containing) family, member 4 |
| SIN3A | NM_015477.1 | KIAA0700, DKFZP434K2235 | SIN3 transcription regulator family member A |
| SIRT4 | NM_012240.1 | SIR2L4 | sirtuin 4 |
| SIX1 | NM_005982.3 | DFNA23 | SIX homeobox 1 |
| SKP1 | NM_170679.2 | SKP1A, EMC19, OCP2, TCEB1L, MGC34403, OCP-II, p19A | S-phase kinase-associated protein 1 |
| SKP2 | NM_005983.2 | FBXL1, FBL1, p45 | S-phase kinase-associated protein 2, E3 ubiquitin protein ligase |
| SMAD2 | NM_001003652.1 | MADH2, MADR2, JV18-1 | SMAD family member 2 |
| SMAD3 | NM_005902.3 | MADH3, JV15-2, HsT17436 | SMAD family member 3 |
| SMAD4 | NM_005359.3 | MADH4, DPC4 | SMAD family member 4 |
| SMAD9 | NM_005905.2 | MADH6, MADH9 | SMAD family member 9 |
| SMARCA4 | NM_003072.3 | SNF2L4, hSNF2b, BRG1, BAF190, SNF2, SWI2, SNF2-BETA, SNF2LB, SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4 | |
| SMARCB1 | NM_003073.3 | SNF5L1, BAF47, In1, Snr1, hSNFS, Sfh1p, RDT | SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily b, member 1 |
| SMC1A | NM_006306.2 | SMC1L1, DKS423E, KIAA0178, SB1.8, Smcb | structural maintenance of chromosomes 1A |
| SMC1B | NM_148674.3 | SMC1L2, bK268H5 | structural maintenance of chromosomes 1B |
| SMC3 | NM_005445.3 | CSPG6, HCAP, BAM, SMC3L1, bamakan | structural maintenance of chromosomes 3 |
| SMO | NM_005631.3 | SMOH, FZD11 | smoothened, frizzled family receptor |
| SOC51 | NM_003745.1 | SOCS-1, SSI-1, JAB, TIP3, Cish1 | suppressor of cytokine signaling 1 |
| SOC52 | NM_003877.3 | STAT1, SSI2, SOCS-2, SSI-2, CIS2, Cish2 | suppressor of cytokine signaling 2 |
| SOC53 | NM_003955.3 | SSI-3, CIS3, SOCS-3, Cish3 | suppressor of cytokine signaling 3 |
| SOS1 | NM_005633.2 | GINGF, HGF, GF1 | son of sevenless homolog 1 (Drosophila) |
| SOS2 | NM_006939.2 | | son of sevenless homolog 2 (Drosophila) |
| SOST | NM_025237.2 | VBCH | sclerostin |
| SOX17 | NM_022454.3 | | SRY (sex determining region Y)-box 17 |
| SOX9 | NM_000346.2 | CMD1, CMPD1, SRA1 | SRY (sex determining region Y)-box 9 |
| SP1 | NM_003109.1 | | Sp1 transcription factor |
| SPOP | NM_001007226.1 | TEF2, BTBD32 | speckle-type POZ protein |
| SPP1 | NM_000582.2 | BNSP, OPN, BSPI, ETA-1 | secreted phosphoprotein 1 |
| SPRY1 | NM_005841.1 | hSPRY1 | sprouty homolog 1, antagonist of FGF signaling (Drosophila) |
| SPRY2 | NM_005842.2 | hSPRY2 | sprouty homolog 2 (Drosophila) |
| SPRY4 | NM_030964.3 | | sprouty homolog 4 (Drosophila) |
| SRSF2 | NM_003016.3 | SFRS2, SC-35, SC35, PR264, SFRS2A | serine/arginine-rich splicing factor 2 |
| SSX1 | NM_005635.2 | CT5.1 | synovial sarcoma, X breakpoint 1 |
| STAG2 | NM_001042749.1 | SA-2, SCC3B | stromal antigen 2 |
| STAT1 | NM_007315.2 | STAT91, ISGF-3 | signal transducer and activator of transcription 1, 91kDa |
| STAT3 | NM_139276.2 | APRF | signal transducer and activator of transcription 3 (acute-phase response factor) |
| STAT4 | NM_003151.2 | | signal transducer and activator of transcription 4 |
| STK11 | NM_000455.4 | PJS, LKB1 | serine/threonine kinase 11 |
| STMN1 | NM_203401.1 | LAP18, C1orf215, SMN, OP18, PR22, PP19, PP17, Lag, FLJ32206 | stathmin 1 |
| SUV39H2 | NM_024670.3 | FLJ23414, KMT1B | suppressor of variegation 3-9 homolog 2 (Drosophila) |
| SYK | NM_003177.3 | | spleen tyrosine kinase |
| TBL1XR1 | NM_024665.4 | IRA1, FLJ12894, TBLR1, C21, DC42 | transducin (beta)-like 1 X-linked receptor 1 |
| TCF3 | NM_003200.2 | E2A, ITF1, MGC129647, MGC129648, bHLHb21, VDIR, E47 | transcription factor 3 |
| TCF7L1 | NM_031283.1 | TCF3 | transcription factor 7-like 1 (T-cell specific, HMG-box) |
| TCL1B | NM_004918.2 | TML1 | T-cell leukemia/lymphoma 1B |
| TET2 | NM_001127208.2 | KIAA1546, FLJ20032 | tet methylcytosine dioxygenase 2 |
| TFDP1 | NM_007111.4 | Dp-1, DRTF1, DP1 | transcription factor Dp-1 |
| TGFB1 | NM_000660.3 | TGFB, DPD1, CED, TGFBeta | transforming growth factor, beta 1 |
| TGFB2 | NM_003238.2 | | transforming growth factor, beta 2 |
| TGFB3 | NM_003239.2 | ARVD1, ARVD | transforming growth factor, beta 3 |
| TGFB2R | NM_001024847.1 | MFS2 | transforming growth factor, beta receptor II (70/80kDa) |
| THBS1 | NM_003246.2 | TSP1, THBS, TSP, THBS-1, TSP-1 | thrombospondin 1 |
| THBS4 | NM_003248.3 | | thrombospondin 4 |
| THEM4 | NM_053055.4 | CTMP | thioesterase superfamily member 4 |
| TIAM1 | NM_003253.2 | | T-cell lymphoma invasion and metastasis 1 |
| TLR2 | NM_003264.3 | TIL4, CD282 | toll-like receptor 2 |

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|-----------|----------------|--|---|
| TLR4 | NM_138554.2 | hToll, CD284, TLR-4, ARMD10 | toll-like receptor 4 |
| TLX1 | NM_005521.3 | TCL3, HOX11 | T-cell leukemia homeobox 1 |
| TMPRSS2 | NM_005656.2 | PRSS10 | transmembrane protease, serine 2 |
| TNC | NM_002160.3 | HXB, DFNA56, TN, MGC167029 | tenascin C |
| TNF | NM_000594.2 | TNFA, TNFSF2, DIF, TNF-alpha | tumor necrosis factor |
| TNFAIP3 | NM_006290.2 | A20, OTUD7C | tumor necrosis factor, alpha-induced protein 3 |
| TNFRSF10A | NM_003844.2 | DR4, Apo2, TRAILR-1, CD261 | tumor necrosis factor receptor superfamily, member 10a |
| TNFRSF10B | NM_003842.3 | DR5, KILLER, TRICK2A, TRAIL-R2, TRICKB, CD262 | tumor necrosis factor receptor superfamily, member 10b |
| TNFRSF10C | NM_003841.2 | DcR1, TRAILR3, LIT, TRID, CD263 | tumor necrosis factor receptor superfamily, member 10c, decoy without an intracellular domain |
| TNFRSF10D | NM_003840.3 | DcR2, TRUNDD, TRAILR4, CD264 | tumor necrosis factor receptor superfamily, member 10d, decoy with truncated death domain |
| TNFSF10 | NM_003810.2 | TRAIL, Apo-2L, TL2, CD253 | tumor necrosis factor (ligand) superfamily, member 10 |
| TNN | NM_022093.1 | | tenascin N |
| TNR | NM_003285.2 | | tenascin R |
| TP53 | NM_000546.2 | p53, LFS1 | tumor protein p53 |
| TPO | NM_175722.1 | TPX | thyroid peroxidase |
| TRA7 | NM_032271.2 | RFWD1, RNF119, DKFZp586l021, MGC7807 | TNF receptor-associated factor 7, E3 ubiquitin protein ligase |
| TSC1 | NM_000368.3 | TSC, KIAA0243, LAM, hamartin | tuberous sclerosis 1 |
| TSHR | NM_001018036.2 | LGR3 | thyroid stimulating hormone receptor |
| TSLP | NM_033035.4 | | thymic stromal lymphopoietin |
| TSPAN7 | NM_004615.3 | MXS1, TM4SF2, MRX58, DXS1692E, TALLA-1, A15, CD231 | tetraspanin 7 |
| TTK | NM_003318.3 | MPS1, MPS1L1, CT96, MPH1 | TTK protein kinase |
| U2AF1 | NM_001025203.1 | U2AFBP, U2AF35, RNU2AF1, RN | U2 small nuclear RNA auxiliary factor 1 |
| UBB | NM_018955.2 | MGC8385, FLJ25987 | ubiquitin B |
| UBE2T | NM_014176.3 | HSPC150 | ubiquitin-conjugating enzyme E2T (putative) |
| UTY | NM_007125.3 | KDM6AL | ubiquitously transcribed tetratricopeptide repeat containing, Y-linked |
| VEGFA | NM_001025366.1 | VEGF, VEGF-A, VPFF | vascular endothelial growth factor A |
| VEGFC | NM_005429.2 | VRP | vascular endothelial growth factor C |
| VHL | NM_000551.2 | VHL1 | von Hippel-Lindau tumor suppressor, E3 ubiquitin protein ligase |
| WEE1 | NM_003390.3 | | WEE1 G2 checkpoint kinase |
| WHSC1 | NM_007331.1 | MMSET, NSD2 | Wolf-Hirschhorn syndrome candidate 1 |
| WHSC1L1 | NM_017778.2 | FLJ20353, NSD3 | Wolf-Hirschhorn syndrome candidate 1-like 1 |
| WIF1 | NM_007191.2 | | WNT inhibitory factor 1 |
| WNT10A | NM_025216.2 | | wingless-type MMTV integration site family, member 10A |
| WNT10B | NM_003394.2 | WNT-12, SHFM6 | wingless-type MMTV integration site family, member 10B |
| WNT11 | NM_004626.2 | | wingless-type MMTV integration site family, member 11 |
| WNT16 | NM_057168.1 | | wingless-type MMTV integration site family, member 16 |
| WNT2 | NM_003391.2 | INT1L1, IRP | wingless-type MMTV integration site family member 2 |
| WNT2B | NM_024494.1 | WNT13, XWNT2 | wingless-type MMTV integration site family, member 2B |
| WNT3 | NM_030753.3 | INT4, MGC131950, MGC138321, MGC138323 | wingless-type MMTV integration site family, member 3 |
| WNT4 | NM_030761.3 | WNT-4 | wingless-type MMTV integration site family, member 4 |
| WNT5A | NM_003392.3 | hWNT5A | wingless-type MMTV integration site family, member 5A |
| WNT5B | NM_032642.2 | | wingless-type MMTV integration site family, member 5B |
| WNT6 | NM_006522.3 | | wingless-type MMTV integration site family, member 6 |
| WNT7A | NM_004625.3 | | wingless-type MMTV integration site family, member 7A |
| WNT7B | NM_058238.1 | | wingless-type MMTV integration site family, member 7B |
| WT1 | NM_000378.3 | GUD, WAGR, WIT-2, AWT1 | Wilms tumor 1 |
| XPA | NM_000380.3 | XPAC, XP1 | xeroderma pigmentosum, complementation group A |
| XRCC4 | NM_003401.3 | | X-ray repair complementing defective repair in Chinese hamster cells 4 |
| ZAK | NM_016653.2 | pk, AZK, MLT, MRK, MLK7, MLTK, mlklak | sterile alpha motif and leucine zipper containing kinase AZK |
| ZBTB16 | NM_006006.4 | ZNF145, PLZF | zinc finger and BTB domain containing 16 |
| ZBTB32 | NM_014383.1 | TZFP, FAZF, FAXF, Rog, ZNF538 | zinc finger and BTB domain containing 32 |
| ZIC2 | NM_007129.2 | HPE5 | Zic family member 2 |
| ACAD9 | NM_014049.4 | NPD002, MGC14452 | acyl-CoA dehydrogenase family, member 9 |
| AGK | NM_018238.3 | MULK, FLJ10842 | acylglycerol kinase |
| AMMECR1L | NM_001199140.1 | MGC4268 | AMMECR1-like |
| C10orf76 | NM_024541.2 | FLJ13114 | chromosome 10 open reading frame 76 |
| CC2D1B | NM_032449.2 | KIAA1836 | coiled-coil and C2 domain containing 1B |
| CNOT10 | NM_001256741.1 | FLJ12890, FLJ13165 | CCR4-NOT transcription complex, subunit 10 |
| CNOT4 | NM_001190848.1 | NOT4, CLONE243, NOT4H | CCR4-NOT transcription complex, subunit 4 |
| COG7 | NM_153603.3 | | component of oligomeric golgi complex 7 |
| DDX50 | NM_024045.1 | GU2, MGC3199, GUB, RH-II/GuB | DEAD (Asp-Glu-Ala-Asp) box polypeptide 50 |
| DHX16 | NM_001164239.1 | DDX16, DBP2, Prp2, PRPF2 | DEAH (Asp-Glu-Ala-His) box polypeptide 16 |
| DNAJC14 | NM_032364.5 | DNAJ, DRIP78, HDJ3, LIP6, FLJ32792 | DnaJ (Hsp40) homolog, subfamily C, member 14 |
| EDC3 | NM_001142443.1 | YJDC, LSM16, FLJ21128, hYjeF_N2-15q23, YJEFN2 | enhancer of mRNA decapping 3 |
| EIF2B4 | NM_172195.3 | EIF2Bdelta, EIF-2B, DKFZP586J0119, EIF2B | eukaryotic translation initiation factor 2B, subunit 4 delta, 67kDa |
| ERCC3 | NM_000122.1 | XPB, BTF2, RAD25, TFIILH, GTF2H | excision repair cross-complementing rodent repair deficiency, complementation group 3 |
| FCF1 | NM_015962.4 | C14orf111, CGI-35, Bka, UTP24 | FCF1 rRNA-processing protein |
| FTSJ2 | NM_013393.1 | FJH1, MRM2 | FtsJ RNA methyltransferase homolog 2 (E. coli) |
| GPATCH3 | NM_022078.2 | GPATC3, FLJ12455 | G patch domain containing 3 |
| HDAC3 | NM_003883.2 | RPD3, HD3, RPD3-2 | histone deacetylase 3 |
| MRPS5 | NM_031902.3 | MRP-S5, S5mt | mitochondrial ribosomal protein S5 |
| MTMR14 | NM_022485.3 | C3orf29, FLJ22405, FLJ90311, hJumpy, hEDTP | myotubularin related protein 14 |
| NOL7 | NM_016167.3 | C6orf90, PQBP3, NOP27, RARG-1, dJ223E5.2 | nucleolar protein 7, 27kDa |
| NUBP1 | NM_001278506.1 | NBP1, NBP35 | nucleotide binding protein 1 |
| PIAS1 | NM_016166.1 | DDXBP1, GBP, GU/RH-II, ZMIZ3 | protein inhibitor of activated STAT, 1 |
| PIK3R4 | NM_014602.1 | VPS15, p150 | phosphoinositide-3-kinase, regulatory subunit 4 |
| PRPF38A | NM_032864.3 | FLJ14936, Prp38 | pre-mRNA processing factor 38A |
| RBM45 | NM_152945.2 | DRB1, FLJ44612 | RNA binding motif protein 45 |
| SAP130 | NM_024545.3 | FLJ12761 | Sin3A-associated protein, 130kDa |
| SF3A3 | NM_006802.2 | SF3a60, SAP61, PRP9, PRPF9 | splicing factor 3a, subunit 3, 60kDa |
| SLC4A1AP | NM_018158.2 | kanadaptin, HLC3 | solute carrier family 4 (anion exchanger), member 1, adaptor protein |
| TLK2 | NM_006852.2 | PKU-ALPHA, MGC44450 | tousled-like kinase 2 |
| TMUB2 | NM_024107.2 | MGC3123 | transmembrane and ubiquitin-like domain containing 2 |
| TRIM39 | NM_021253.3 | RNF23 | tripartite motif containing 39 |
| TTC31 | NM_027749.1 | FLJ12788 | tetratricopeptide repeat domain 31 |
| USP39 | NM_001256725.1 | SAD1, CGI-21, SNRNP65 | ubiquitin specific peptidase 39 |
| VPS33B | NM_018668.3 | FLJ14848 | vacuolar protein sorting 33 homolog B (yeast) |
| ZC3H14 | NM_001160103.1 | FLJ11806, UKp68, NY-REN-37 | zinc finger CCCH-type containing 14 |
| ZKSCAN5 | NM_014569.3 | ZFP95, ZNF914, ZSCAN37 | zinc finger with KRAB and SCAN domains 5 |
| ZNF143 | NM_003442.5 | SBF, pHZ-1, STAF | zinc finger protein 143 |
| ZNF346 | NM_012279.2 | JAZ, Zfp346 | zinc finger protein 346 |
| ZNF384 | NM_133476.3 | TNRC1, CAGH1A, CIZ, NMP4, NP | zinc finger protein 384 |