**Cancer Gene List - III**

Mark Herbert

World Development Institute

39-06 Main Street, Flushing, Queens, New York 11354, USA, ma708090@gmail.com

**Abstract:** There are thousands of genes that are related to the cancer development. This asreticle gives 1400 genes that are supposed as cancer genes. This is cancer gene list part 3.

[Herbert M. **Cancer Gene List - III.** *Cancer Biology* 2020;10(2):36-58]. ISSN: 2150-1041 (print); ISSN: 2150-105X (online). <http://www.cancerbio.net>. 6. doi:[10.7537/marscbj100220.06](http://www.dx.doi.org/10.7537/marscbj100220.06).

**Key words**: cancer; gene; **D**NA; life; medicine

Cell proliferation is regulated during the body growth and the cancer could happen if the regulation is out of control. Viruses can be used to introduce the reprogramming factors into adult cells, However, there is a risk that the virus used to introduce the stem cell factors sometimes possibly causes cancers. Controlling genes on and off is central to the biological process. The most serious medical conditions, such as cancer and birth defects, are due to abnormal cell division and differentiation. Cancer cell lines can be used to find potential anti-tumor drugs. To control the differentiation of stem cell precisely is important in the drug development (Ma, et al, 2014).

There are thousands of genes that are related to the cancer development. Here it gives 1400 genes that are supposed as cancer genes (Table 1) (Atlas of Genetics and Cytogenetics in Oncology and Haematology., 2015). HGNC is responsible for approving unique symbols and names for human loci, including protein coding genes, ncRNA genes and pseudogenes, to allow unambiguous scientific communication. The HUGO Gene Nomenclature Committee is the only worldwide authority that assigns standardised nomenclature to human genes. The HGNC approves both a short-form abbreviation known as a gene symbol, and also a longer and more descriptive name. Each symbol is unique and the committee ensures that each gene is only given one approved gene symbol. This allows for clear and unambiguous reference to genes in scientific communications, and facilitates electronic data retrieval from databases and publications. In preference, symbols also maintain parallel construction for different members of a gene family and can also be used for orthologous genes in other vertebrate species (HGNC, 2015).

Table 1. Cancer gene list (3)

|  |  |  |
| --- | --- | --- |
| Gene | Location | HGNC (Hugo) Name |
| E1A binding protein p300 (Alias) | 22q13.2  | [EP300](http://atlasgeneticsoncology.org/Genes/P300ID97.html) |
| E1A binding protein p400 (Alias) | 12q24.33  | [EP400](http://atlasgeneticsoncology.org/Genes/EP400ID40457ch12q24.html) |
| E1A-F (Alias) | 17q21.31  | [ETV4](http://atlasgeneticsoncology.org/Genes/ETV4ID133ch17q21.html) |
| E1AF (Alias) | 17q21.31  | [ETV4](http://atlasgeneticsoncology.org/Genes/ETV4ID133ch17q21.html) |
| E2A (Alias) | 19p13.3  | [TCF3](http://atlasgeneticsoncology.org/Genes/E2AID50.html) |
| E2 Binding Factor 6 (Alias) | 2p25.1  | [E2F6](http://atlasgeneticsoncology.org/Genes/E2F6ID521.html) |
| E2F-1 (Alias) | 20q11.22  | [E2F1](http://atlasgeneticsoncology.org/Genes/E2F1ID40382ch20q11.html) |
| [E2F1](http://atlasgeneticsoncology.org/Genes/E2F1ID40382ch20q11.html) | 20q11.22  | E2F1 (E2F transcription factor 1) |
|  |  |  |
| E2F-3 (Alias) | 6p22.3  | [E2F3](http://atlasgeneticsoncology.org/Genes/E2F3ID40384ch6p22.html) |
| [E2F3](http://atlasgeneticsoncology.org/Genes/E2F3ID40384ch6p22.html) | 6p22.3  | E2F3 (E2F transcription factor 3) |
|  |  |  |
| E2F-4 (Alias) | 16q22.1  | [E2F4](http://atlasgeneticsoncology.org/Genes/E2F4ID40385ch16q22.html) |
| [E2F4](http://atlasgeneticsoncology.org/Genes/E2F4ID40385ch16q22.html) | 16q22.1  | E2F4 (E2F transcription factor 4, p107/p130-binding) |
|  |  |  |
| E2F-6 (Alias) | 2p25.1  | [E2F6](http://atlasgeneticsoncology.org/Genes/E2F6ID521.html) |

|  |  |  |
| --- | --- | --- |
| [E2F6](http://atlasgeneticsoncology.org/Genes/E2F6ID521.html) | 2p25.1  | E2F6 (E2F transcription factor 6) |
|  |  |  |
| E2F transcription factor 6 (Alias) | 2p25.1  | [E2F6](http://atlasgeneticsoncology.org/Genes/E2F6ID521.html) |
| E2IG1 (Alias) | 12q24.23  | [HSPB8](http://atlasgeneticsoncology.org/Genes/HSPB8ID43743ch12q24.html) |
| E3B1 (Alias) | 10p12.1  | [ABI1](http://atlasgeneticsoncology.org/Genes/ABI1ID233.html) |
| E3RSIkappaB (Alias) | 10q24.32  | [BTRC](http://atlasgeneticsoncology.org/Genes/BTRCID451ch10q24.html) |
| E5NT (Alias) | 6q14.3  | [NT5E](http://atlasgeneticsoncology.org/Genes/NT5EID44492ch6q14.html) |
| E6-AP (Alias) | 15q11.2  | [UBE3A](http://atlasgeneticsoncology.org/Genes/UBE3AID42756ch15q11.html) |
| EAB1 (Alias) | 20q13.12  | [EYA2](http://atlasgeneticsoncology.org/Genes/EYA2ID46126ch20q13.html) |
| EAC (Alias) | 16q12.1  | [CYLD](http://atlasgeneticsoncology.org/Genes/CYLDID40232ch16q12.html) |
| EAG1 (Alias) | 1q32.2  | [KCNH1](http://atlasgeneticsoncology.org/Genes/KCNH1ID41048ch1q32.html) |
| EAG (Alias) | 1q32.2  | [KCNH1](http://atlasgeneticsoncology.org/Genes/KCNH1ID41048ch1q32.html) |
| EAP1 (Alias) | 6p21.32  | [DAXX](http://atlasgeneticsoncology.org/Genes/DAXXID40265ch6p21.html) |
| EAP1 (Alias) | 5q33.3  | [PTTG1](http://atlasgeneticsoncology.org/Genes/PTTG1ID41943ch5q35.html) |
| EB1 (Alias) | 20q11.21  | [MAPRE1](http://atlasgeneticsoncology.org/Genes/MAPRE1ID455ch20q11.html) |
| EB9 (Alias) | 8q23.2  | [EBAG9](http://atlasgeneticsoncology.org/Genes/EBAG9ID40393ch8q23.html) |
| [EBAG9](http://atlasgeneticsoncology.org/Genes/EBAG9ID40393ch8q23.html) | 8q23.2  | EBAG9 (Estrogen receptor-binding fragment-associated antigen 9) |
|  |  |  |
| EBMD (Alias) | 5q31.1  | [TGFBI](http://atlasgeneticsoncology.org/Genes/TGFBIID42539ch5q31.html) |
| EBP1 (Alias) | 12q13.2  | [PA2G4](http://atlasgeneticsoncology.org/Genes/PA2G4ID41628ch12q13.html) |
| EBP50 (Alias) | 17q25.1  | [SLC9A3R1](http://atlasgeneticsoncology.org/Genes/SLC9A3R1ID46023ch17q25.html) |
| EC 1.13.11.31 (Alias) | 17p13.1  | [ALOX12](http://atlasgeneticsoncology.org/Genes/ALOX12ID620ch17p13.html) |
| EC 1.13.11.33 (Alias) | 17p13.2  | [ALOX15](http://atlasgeneticsoncology.org/Genes/ALOX15ID42986ch17p13.html) |
| EC 1.13.11.34 (Alias) | 10q11.21  | [ALOX5](http://atlasgeneticsoncology.org/Genes/ALOX5ID42985ch10q11.html) |
| EC 1.13.11.52 (Alias) | 8p11.21  | [IDO1](http://atlasgeneticsoncology.org/Genes/IDO1ID40973ch8p11.html) |
| EC 1.14.13.17 (Alias) | 8q12.1  | [CYP7A1](http://atlasgeneticsoncology.org/Genes/CYP7A1ID40254ch8q12.html) |
| EC 1.4.3.- (Alias) | 2p13.1  | [LOXL3](http://atlasgeneticsoncology.org/Genes/LOXL3ID44000ch2p13.html) |
| EC 2.1.1.1 (Alias) | 11q23.2  | [NNMT](http://atlasgeneticsoncology.org/Genes/NNMTID44506ch11q23.html) |
| EC 2.3.1.- EC 2.3.1.48 (Alias) | 10q22.2  | [KAT6B](http://atlasgeneticsoncology.org/Genes/MYST4ID41488ch10q22.html) |
| EC 2.7.10.1 (Alias) | 5q32  | [CSF1R](http://atlasgeneticsoncology.org/Genes/CSF1RID40161ch5q32.html) |
| EC 2.7.10.1 (Alias) | 3p11.1  | [EPHA3](http://atlasgeneticsoncology.org/Genes/EPHA3ID40463ch3p11.html) |
| EC 2.7.10.1 (Alias) | 2q13  | [MERTK](http://atlasgeneticsoncology.org/Genes/MERTKID41339ch2q13.html) |
| EC 2.7.10.1 (Alias) | 9p21.2  | [TEK](http://atlasgeneticsoncology.org/Genes/TEKID42517ch9p21.html) |
| EC 2.7.10.2 (Alias) | 1p31.3  | [JAK1](http://atlasgeneticsoncology.org/Genes/JAK1ID41031ch1p31.html) |
| EC 2.7.10.2 (Alias) | 19p13.11  | [JAK3](http://atlasgeneticsoncology.org/Genes/JAK3ID41032ch19p13.html) |
| EC 2.7.11.1 (Alias) | 14q32.33  | [AKT1](http://atlasgeneticsoncology.org/Genes/AKT1ID355ch14q32.html) |
| EC 2.7.11.1 (Alias) | 5q32  | [CSNK1A1](http://atlasgeneticsoncology.org/Genes/CSNK1A1ID40168ch5q32.html) |
| EC 2.7.11.1 (Alias) | 9q21.33  | [DAPK1](http://atlasgeneticsoncology.org/Genes/DAPK1ID417ch9q21.html) |
| EC 2.7.11.1 (Alias) | 6q25.1  | [LATS1](http://atlasgeneticsoncology.org/Genes/LATS1ID41127ch6q25.html) |
| EC 2.7.11.1 (Alias) | 13q12.11  | [LATS2](http://atlasgeneticsoncology.org/Genes/LATS2ID41128ch13q12.html) |
| EC 2.7.11.1 (Alias) | 7q11.23  | [LIMK1](http://atlasgeneticsoncology.org/Genes/LIMK1ID41159ch7q11.html) |
| EC 2.7.11.1 (Alias) | 19p13.3  | [STK11](http://atlasgeneticsoncology.org/Genes/STK11ID292.html) |
| EC 2.7.11.22 (Alias) | 9q22.1  | [CDK20](http://atlasgeneticsoncology.org/Genes/CCRKID43196ch9q22.html) |
| EC 2.7.11.24 (Alias) | 22q13.33  | [MAPK12](http://atlasgeneticsoncology.org/Genes/MAPK12ID41290ch22q13.html) |
| EC 2.7.11.24 (Alias) | 22q11.21  | [MAPK1](http://atlasgeneticsoncology.org/Genes/MAPK1ID41288ch22q11.html) |
| EC 2.7.11.24 (Alias) | 16p11.2  | [MAPK3](http://atlasgeneticsoncology.org/Genes/MAPK3ID425ch16p11.html) |
| EC 2.7.11.26 (Alias) | 3q13.33  | [GSK3B](http://atlasgeneticsoncology.org/Genes/GSK3BID40761ch3q13.html) |
| EC 2.7.1.153 (Alias) | 3q26.32  | [PIK3CA](http://atlasgeneticsoncology.org/Genes/PIK3CAID415ch3q26.html) |
| EC 3.1.2.15 (Alias) | 16p13.2  | [USP7](http://atlasgeneticsoncology.org/Genes/USP7ID42773ch16p13.html) |
| EC 3.1.3.16 (Alias) | 17q23.2  | [PPM1D](http://atlasgeneticsoncology.org/Genes/PPM1DID41803ch17q23.html) |
| EC 3.1.3.48 (Alias) | 9p24.1  | [PTPRD](http://atlasgeneticsoncology.org/Genes/PTPRDID41927ch9p23.html) |
| EC 3.1.3.n1 (Alias) | 11q13.4  | [INPPL1](http://atlasgeneticsoncology.org/Genes/INPPL1ID40984ch11q13.html) |
| EC 3.1.4. (Alias) | 16q21  | [USB1](http://atlasgeneticsoncology.org/Genes/USB1ID44608ch16q21.html) |
| EC 3.2.1.35 (Alias) | 3p21.31  | [HYAL1](http://atlasgeneticsoncology.org/Genes/HYAL1ID40903ch3p21.html) |
| EC 3.2.1.35 (Alias) | 7q31.32  | [SPAM1](http://atlasgeneticsoncology.org/Genes/SPAM1ID42361ch7q31.html) |
| EC 3.4.21 (Alias) | 19q13.41  | [KLK5](http://atlasgeneticsoncology.org/Genes/KLK5ID41085ch19q13.html) |
| EC 3.4.21.- (Alias) | 11q23.3  | [TMPRSS4](http://atlasgeneticsoncology.org/Genes/TMPRSS4ID42594ch11q23.html) |
| EC 3.4.22.15 (Alias) | 9q21.33  | [CTSL](http://atlasgeneticsoncology.org/Genes/CTSL1ID40208ch9q21.html) |
| EC 3.4.22.16 (Alias) | 15q25.1  | [CTSH](http://atlasgeneticsoncology.org/Genes/CTSHID40206ch15q25.html) |
| EC 3.4.22.1 (Alias) | 8p23.1  | [CTSB](http://atlasgeneticsoncology.org/Genes/CTSBID40202ch8p23.html) |
| EC 3.4.24.- (Alias) | 21q21.3  | [ADAMTS1](http://atlasgeneticsoncology.org/Genes/ADAMTS1ID574ch21q21.html) |
| EC 3.5.1.98 (Alias) | 6q21  | [HDAC2](http://atlasgeneticsoncology.org/Genes/HDAC2ID40803ch6q22.html) |
| EC 3.5.1 (Alias) | 10q21.3  | [SIRT1](http://atlasgeneticsoncology.org/Genes/SIRT1ID44006ch10q21.html) |
| EC 4.1.2.13 (Alias) | 9q31.1  | [ALDOB](http://atlasgeneticsoncology.org/Genes/ALDOBID44287ch9q31.html) |
| EC 4.2.1.11 (Alias) | 1p36.23  | [ENO1](http://atlasgeneticsoncology.org/Genes/ENO1ID40453ch1p36.html) |
| EC 5.3.99.4 (Alias) | 20q13.13  | [PTGIS](http://atlasgeneticsoncology.org/Genes/PTGISID44219ch20q13.html) |
| EC 6.3.2.- (Alias) | 9p21.1  | [TOPORS](http://atlasgeneticsoncology.org/Genes/TOPORSID42663ch9p21.html) |
| ECaC2 (Alias) | 7q34  | [TRPV6](http://atlasgeneticsoncology.org/Genes/TRPV6ID44425ch7q34.html) |
| ECAD (Alias) | 16q22.1  | [CDH1](http://atlasgeneticsoncology.org/Genes/CDH1ID166ch16q22.html) |
| E-cadherin (Alias) | 16q22.1  | [CDH1](http://atlasgeneticsoncology.org/Genes/CDH1ID166ch16q22.html) |
| ECG2 (Alias) | 5q32  | [SPINK7](http://atlasgeneticsoncology.org/Genes/SPINK7ID40396ch5q33.html) |
| ECGF1 (Alias) | 22q13.33  | [TYMP](http://atlasgeneticsoncology.org/Genes/TYMPID40397ch22q13.html) |
| ECGFA (Alias) | 5q31.3  | [FGF1](http://atlasgeneticsoncology.org/Genes/FGF1ID40549ch5q31.html) |
| ECGF (Alias) | 5q31.3  | [FGF1](http://atlasgeneticsoncology.org/Genes/FGF1ID40549ch5q31.html) |
| ECGFB (Alias) | 5q31.3  | [FGF1](http://atlasgeneticsoncology.org/Genes/FGF1ID40549ch5q31.html) |
| ECGF-beta (Alias) | 5q31.3  | [FGF1](http://atlasgeneticsoncology.org/Genes/FGF1ID40549ch5q31.html) |
| ECHOS1 (Alias) | 21q22.3  | [TMPRSS3](http://atlasgeneticsoncology.org/Genes/TMPRSS3ID42593ch21q22.html) |
| ECK (Alias) | 1p36.13  | [EPHA2](http://atlasgeneticsoncology.org/Genes/EPHA2ID40462ch1p36.html) |
| [ECM1](http://atlasgeneticsoncology.org/Genes/ECM1ID40398ch1q21.html) | 1q21.3  | ECM1 (extracellular matrix protein 1) |
|  |  |  |
| ECMR-III (Alias) | 11p13  | [CD44](http://atlasgeneticsoncology.org/Genes/CD44ID980CH11p13.html) |
| ECP51 (Alias) | 19q13.33  | [RUVBL2](http://atlasgeneticsoncology.org/Genes/RUVBL2ID42185ch19q13.html) |
| ECP54 (Alias) | 3q21.3  | [RUVBL1](http://atlasgeneticsoncology.org/Genes/RUVBL1ID44415ch3q21.html) |
| EC-PTP (Alias) | 12q15  | [PTPRR](http://atlasgeneticsoncology.org/Genes/PTPRRID41937ch12q15.html) |
| ECRG2 (Alias) | 5q32  | [SPINK7](http://atlasgeneticsoncology.org/Genes/SPINK7ID40396ch5q33.html) |
| ECT1 (Alias) | 10q26.13  | [FGFR2](http://atlasgeneticsoncology.org/Genes/FGFR2ID40570ch10q26.html) |
| [ECT2](http://atlasgeneticsoncology.org/Genes/ECT2ID40400ch3q26.html) | 3q26.31  | ECT2 (epithelial cell transforming sequence 2 oncogene) |
|  |  |  |
| ECTACC (Alias) | 10q26.13  | [TACC2](http://atlasgeneticsoncology.org/Genes/TACC2ID42457ch10q26.html) |
| ECYT3 (Alias) | 1q42.2  | [EGLN1](http://atlasgeneticsoncology.org/Genes/EGLN1ID44140ch1q42.html) |
| ECYT4 (Alias) | 2p21  | [EPAS1](http://atlasgeneticsoncology.org/Genes/EPAS1ID44088ch2p21.html) |
| EDDR1 (Alias) | 6p21.33  | [DDR1](http://atlasgeneticsoncology.org/Genes/DDR1ID40280ch6p21.html) |
| EDG2 (Alias) | 9q31.3  | [LPAR1](http://atlasgeneticsoncology.org/Genes/LPAR1ID40405ch9q31.html) |
| EDG-4 (Alias) | 19p13.11  | [LPAR2](http://atlasgeneticsoncology.org/Genes/LPAR2ID40406ch19p13.html) |
| EDG4 (Alias) | 19p13.11  | [LPAR2](http://atlasgeneticsoncology.org/Genes/LPAR2ID40406ch19p13.html) |
| [EDIL3](http://atlasgeneticsoncology.org/Genes/EDIL3ID46078ch5q14.html) | 5q14.3  | EDIL3 (EGF-Like Repeats And Discoidin I-Like Domains 3) |
|  |  |  |
| EDR (Alias) | 7q21.3  | [PEG10](http://atlasgeneticsoncology.org/Genes/PEG10ID44104ch7q21.html) |
| EEC3 (Alias) | 3q28  | [TP63](http://atlasgeneticsoncology.org/Genes/TP63ID365ch3q27.html) |
| [EEF1A1](http://atlasgeneticsoncology.org/Genes/EEF1A1ID40407ch6q13.html) | 6q13  | EEF1A1 (eukaryotic translation elongation factor 1 alpha 1) |
|  |  |  |
| [EEF1A2](http://atlasgeneticsoncology.org/Genes/EEF1A2ID40408ch20q13.html) | 20q13.33  | EEF1A2 (eukaryotic translation elongation factor 1 alpha 2) |
|  |  |  |
| EEF1A (Alias) | 6q13  | [EEF1A1](http://atlasgeneticsoncology.org/Genes/EEF1A1ID40407ch6q13.html) |
| EEF1AL (Alias) | 20q13.33  | [EEF1A2](http://atlasgeneticsoncology.org/Genes/EEF1A2ID40408ch20q13.html) |
| EEF-1 (Alias) | 6q13  | [EEF1A1](http://atlasgeneticsoncology.org/Genes/EEF1A1ID40407ch6q13.html) |
| EEN-B1 (Alias) | 9p22.2  | [SH3GL2](http://atlasgeneticsoncology.org/Genes/SH3GL2ID44345ch9p22.html) |
| EEN (extra eleven nineteen leukemia fusion gene) (Alias) | 19p13.3  | [SH3GL1](http://atlasgeneticsoncology.org/Genes/EENID8.html) |
| EER-7 (endothelial estrogen-regulated gene-7) (Alias) | 10q24.2  | [LOXL4](http://atlasgeneticsoncology.org/Genes/LOXL4ID41193ch10q24.html) |
| EF1A (Alias) | 6q13  | [EEF1A1](http://atlasgeneticsoncology.org/Genes/EEF1A1ID40407ch6q13.html) |
| EF1A (Alias) | 20q13.33  | [EEF1A2](http://atlasgeneticsoncology.org/Genes/EEF1A2ID40408ch20q13.html) |
| EF-1-alpha-2 (Alias) | 20q13.33  | [EEF1A2](http://atlasgeneticsoncology.org/Genes/EEF1A2ID40408ch20q13.html) |
| E-FABP (Alias) | 8q21.13  | [FABP5](http://atlasgeneticsoncology.org/Genes/FABP5ID49862ch8q21.html) |
| EFABP (Alias) | 8q21.13  | [FABP5](http://atlasgeneticsoncology.org/Genes/FABP5ID49862ch8q21.html) |
| [EFEMP1](http://atlasgeneticsoncology.org/Genes/EFEMP1ID49818ch2p16.html) | 2p16.1  | EFEMP1 (EGF containing fibulin-like extracellular matrix protein 1) |
|  |  |  |
| EG1 (Alias) | 4p15.32  | [MED28](http://atlasgeneticsoncology.org/Genes/MED28ID50131ch4p15.html) |
| EGFRBP (Epidermal Growth Factor Receptor Binding Protein)-GRB2 (Alias) | 17q25.1  | [GRB2](http://atlasgeneticsoncology.org/Genes/GRB2ID386ch17q25.html) |
| [EGLN1](http://atlasgeneticsoncology.org/Genes/EGLN1ID44140ch1q42.html) | 1q42.2  | EGLN1 (egl nine homolog 1 (C. elegans)) |
|  |  |  |
| EGP40 (Alias) | 2p21  | [EPCAM](http://atlasgeneticsoncology.org/Genes/TACSTD1ID42459ch2p21.html) |
| EGP (Alias) | 2p21  | [EPCAM](http://atlasgeneticsoncology.org/Genes/TACSTD1ID42459ch2p21.html) |
| [EGR1](http://atlasgeneticsoncology.org/Genes/EGR1ID496ch5q31.html) | 5q31.2  | EGR1 (Early Growth Response 1) |
|  |  |  |
| [EHF](http://atlasgeneticsoncology.org/Genes/EHFID40421ch11p13.html) | 11p13  | EHF (ets homologous factor) |
|  |  |  |
| EHK3 (Alias) | 6q16.1  | [EPHA7](http://atlasgeneticsoncology.org/Genes/EPHA7ID40466ch6q16.html) |
| [EHMT2](http://atlasgeneticsoncology.org/Genes/EHMT2ID51148ch6p21.html) | 6p21.33  | EHMT2 (euchromatic histone-lysine N-methyltransferase 2) |
|  |  |  |
| EIF2AK1 (Alias) | 2p22.2  | [EIF2AK2](http://atlasgeneticsoncology.org/Genes/EIF2AK2ID41866ch2p22.html) |
| [EIF2AK2](http://atlasgeneticsoncology.org/Genes/EIF2AK2ID41866ch2p22.html) | 2p22.2  | EIF2AK2 (eukaryotic translation initiation factor 2-alpha kinase 2) |
|  |  |  |
| [EIF3A](http://atlasgeneticsoncology.org/Genes/EIF3AID40425ch10q26.html) | 10q26.11  | EIF3A (eukaryotic translation initiation factor 3, subunit A) |
|  |  |  |
| EIF3 (Alias) | 10q26.11  | [EIF3A](http://atlasgeneticsoncology.org/Genes/EIF3AID40425ch10q26.html) |
| [EIF3C](http://atlasgeneticsoncology.org/Genes/EIF3CID44187ch16p11.html) | 16p11.2  | EIF3C (eukaryotic translation initiation factor 3, subunit C) |
|  |  |  |
| [EIF3F](http://atlasgeneticsoncology.org/Genes/EIF3FID44407ch11p15.html) | 11p15.4  | EIF3F (eukaryotic translation initiation factor 3, subunit F) |
|  |  |  |
| EIF3S10 (Alias) | 10q26.11  | [EIF3A](http://atlasgeneticsoncology.org/Genes/EIF3AID40425ch10q26.html) |
| EIF3S5 (Alias) | 11p15.4  | [EIF3F](http://atlasgeneticsoncology.org/Genes/EIF3FID44407ch11p15.html) |
| EIF3S8 (Alias) | 16p11.2  | [EIF3C](http://atlasgeneticsoncology.org/Genes/EIF3CID44187ch16p11.html) |
| [EIF4A2](http://atlasgeneticsoncology.org/Genes/EIF4A2ID262.html) | 3q27.3  | EIF4A2 (eukaryotic translation initiation factor 4A, isoform 2) |
|  |  |  |
| EIF-4B (Alias) | 12q13.13  | [EIF4B](http://atlasgeneticsoncology.org/Genes/EIF4BID53571ch12q13.html) |
| [EIF4B](http://atlasgeneticsoncology.org/Genes/EIF4BID53571ch12q13.html) | 12q13.13  | EIF4B (eukaryotic translation initiation factor 4B) |
|  |  |  |
| EIF4E1 (Alias) | 4q23  | [EIF4E](http://atlasgeneticsoncology.org/Genes/EIF4EID40431ch4q23.html) |
| [EIF4EBP1](http://atlasgeneticsoncology.org/Genes/EIF4EBP1ID40432ch8p12.html) | 8p11.23  | EIF4EBP1 (Eukaryotic translation initiation factor 4E binding protein 1) |
|  |  |  |
| [EIF4E](http://atlasgeneticsoncology.org/Genes/EIF4EID40431ch4q23.html) | 4q23  | EIF4E (eukaryotic translation initiation factor 4E) |
|  |  |  |
| EIF4EL1 (Alias) | 4q23  | [EIF4E](http://atlasgeneticsoncology.org/Genes/EIF4EID40431ch4q23.html) |
| EIF4F (Alias) | 4q23  | [EIF4E](http://atlasgeneticsoncology.org/Genes/EIF4EID40431ch4q23.html) |
| EIG8 (Alias) | 3q21.1  | [CASR](http://atlasgeneticsoncology.org/Genes/CASRID43977ch3q21.html) |
| EJ16 (Alias) | 11p13  | [CD59](http://atlasgeneticsoncology.org/Genes/CD59ID985ch11p13.html) |
| EJ30 (Alias) | 11p13  | [CD59](http://atlasgeneticsoncology.org/Genes/CD59ID985ch11p13.html) |
| EL32 (Alias) | 11p13  | [CD59](http://atlasgeneticsoncology.org/Genes/CD59ID985ch11p13.html) |
| [ELAC2](http://atlasgeneticsoncology.org/Genes/ELAC2ID40437ch17p11.html) | 17p12  | ELAC2 (elaC homolog 2 (E. coli)) |
|  |  |  |
| ELAM-1 (Alias) | 1q24.2  | [SELE](http://atlasgeneticsoncology.org/Genes/SELEID42247ch1q22.html) |
| ELAM1 (Alias) | 1q24.2  | [SELE](http://atlasgeneticsoncology.org/Genes/SELEID42247ch1q22.html) |
| ELAM (Alias) | 1q24.2  | [SELE](http://atlasgeneticsoncology.org/Genes/SELEID42247ch1q22.html) |
| ELAV1 (Alias) | 19p13.2  | [ELAVL1](http://atlasgeneticsoncology.org/Genes/ELAVL1ID44237ch19p13.html) |
| [ELAVL1](http://atlasgeneticsoncology.org/Genes/ELAVL1ID44237ch19p13.html) | 19p13.2  | ELAVL1 (ELAV (embryonic lethal, abnormal vision, Drosophila)-like 1 (Hu antigen R)) |
|  |  |  |
| ELD (Alias) | 1p36.11  | [ARID1A](http://atlasgeneticsoncology.org/Genes/ARID1AID44231ch1p36.html) |
| ELE1 (Alias) | 10q11.23  | [NCOA4](http://atlasgeneticsoncology.org/Genes/NCOA4ID218ch10q11.html) |
| [ELF4](http://atlasgeneticsoncology.org/Genes/ELF4ID42990chXq26.html) | Xq26.1  | ELF4 (E74-like factor 4 (ets domain transcription factor)) |
|  |  |  |
| ELFR (Alias) | Xq26.1  | [ELF4](http://atlasgeneticsoncology.org/Genes/ELF4ID42990chXq26.html) |
| ELKS (Alias) | 12p13.33  | [ERC1](http://atlasgeneticsoncology.org/Genes/ELKSID503.html) |
| [ELL](http://atlasgeneticsoncology.org/Genes/ELLID10.html) | 19p13.11  | ELL (eleven nineteen lysin rich leukemia gene) |
|  |  |  |
| ELP120 (Alias) | 2p21  | [EML4](http://atlasgeneticsoncology.org/Genes/EML4ID44353ch2p21.html) |
| ELP (Alias) | 9q33.3  | [NR5A1](http://atlasgeneticsoncology.org/Genes/NR5A1ID45858ch9q33.html) |
| EMAP-4 (Alias) | 2p21  | [EML4](http://atlasgeneticsoncology.org/Genes/EML4ID44353ch2p21.html) |
| EMAPL4 (Alias) | 2p21  | [EML4](http://atlasgeneticsoncology.org/Genes/EML4ID44353ch2p21.html) |
| [EML4](http://atlasgeneticsoncology.org/Genes/EML4ID44353ch2p21.html) | 2p21  | EML4 (echinoderm microtubule associated protein like 4) |
|  |  |  |
| EMPB3 (Alias) | 17q21.31  | [SLC4A1](http://atlasgeneticsoncology.org/Genes/SLC4A1ID42325ch17q21.html) |
| EMSP1 (Alias) | 19q13.41  | [KLK4](http://atlasgeneticsoncology.org/Genes/KLK4ID41084ch19q13.html) |
| EMSP (Alias) | 19q13.41  | [KLK4](http://atlasgeneticsoncology.org/Genes/KLK4ID41084ch19q13.html) |
| EMSY (Alias) | 11q13.5  | [C11orf30](http://atlasgeneticsoncology.org/Genes/C11ORF30ID173.html) |
| EMT (Alias) | 5q33.3  | [ITK](http://atlasgeneticsoncology.org/Genes/ITKID43329ch5q33.html) |
| EN-7 (Alias) | 22q13.1  | [RAC2](http://atlasgeneticsoncology.org/Genes/RAC2ID42021ch22q13.html) |
| ENA-78 (Alias) | 4q13.3  | [CXCL5](http://atlasgeneticsoncology.org/Genes/CXCL5ID40223ch4q13.html) |
| [ENAH](http://atlasgeneticsoncology.org/Genes/ENAHID44148ch1q42.html) | 1q42.12  | ENAH (enabled homolog (Drosophila)) |
|  |  |  |
| ENC-1 (Alias) | 5q13.3  | [ENC1](http://atlasgeneticsoncology.org/Genes/NRPBID40451ch5q12.html) |
| [ENC1](http://atlasgeneticsoncology.org/Genes/NRPBID40451ch5q12.html) | 5q13.3  | ENC1 (ectodermal-neural cortex (with BTB-like domain)) |
|  |  |  |
| END (Alias) | 9q34.11  | [ENG](http://atlasgeneticsoncology.org/Genes/ENGID40452ch9q34.html) |
| Endopeptidase-2 (Alias) | 3q25.2  | [MME](http://atlasgeneticsoncology.org/Genes/MMEID41386ch3q25.html) |
| Endophilin-1 (Alias) | 9p22.2  | [SH3GL2](http://atlasgeneticsoncology.org/Genes/SH3GL2ID44345ch9p22.html) |
| [ENG](http://atlasgeneticsoncology.org/Genes/ENGID40452ch9q34.html) | 9q34.11  | ENG (endoglin) |
|  |  |  |
| Enkephalinase (Alias) | 3q25.2  | [MME](http://atlasgeneticsoncology.org/Genes/MMEID41386ch3q25.html) |
| ENL (eleven nineteen leukemia) (Alias) | 19p13.3  | [MLLT1](http://atlasgeneticsoncology.org/Genes/ENLID9.html) |
| [ENO1](http://atlasgeneticsoncology.org/Genes/ENO1ID40453ch1p36.html) | 1p36.23  | ENO1 (Enolase 1, (alpha)) |
|  |  |  |
| ENO1L1 (Alias) | 1p36.23  | [ENO1](http://atlasgeneticsoncology.org/Genes/ENO1ID40453ch1p36.html) |
| [ENOX2](http://atlasgeneticsoncology.org/Genes/ENOX2ID40134chXq26.html) | Xq26.1  | ENOX2 (ecto-NOX disulfide-thiol exchanger 2) |
|  |  |  |
| [ENPP2](http://atlasgeneticsoncology.org/Genes/ENPP2ID40455ch8q24.html) | 8q24.12  | ENPP2 (ectonucleotide pyrophosphatase/phosphodiesterase 2) |
|  |  |  |
| E-NPP7 (Alias) | 17q25.3  | [ENPP7](http://atlasgeneticsoncology.org/Genes/ENPP7ID44055ch17q25.html) |
| [ENPP7](http://atlasgeneticsoncology.org/Genes/ENPP7ID44055ch17q25.html) | 17q25.3  | ENPP7 (ectonucleotide pyrophosphatase/phosphodiesterase 7) |
|  |  |  |
| ENT0 (Alias) | 11q13.5  | [C11orf30](http://atlasgeneticsoncology.org/Genes/C11ORF30ID173.html) |
| Env-W (Alias) | -  | [ERVW-1](http://atlasgeneticsoncology.org/Genes/ERVWE1ID40497ch7q21.html) |
| ENX-1 (Alias) | 7q36.1  | [EZH2](http://atlasgeneticsoncology.org/Genes/EZH2ID40517ch7q36.html) |
| ENX1 (Alias) | 7q36.1  | [EZH2](http://atlasgeneticsoncology.org/Genes/EZH2ID40517ch7q36.html) |
| [EP300](http://atlasgeneticsoncology.org/Genes/P300ID97.html) | 22q13.2  | EP300 (E1A binding protein p300) |
|  |  |  |
| [EP400](http://atlasgeneticsoncology.org/Genes/EP400ID40457ch12q24.html) | 12q24.33  | EP400 (E1A binding protein p400) |
|  |  |  |
| [EPAS1](http://atlasgeneticsoncology.org/Genes/EPAS1ID44088ch2p21.html) | 2p21  | EPAS1 (Endothelial PAS Domain Protein 1) |
|  |  |  |
| EPB3 (Alias) | 17q21.31  | [SLC4A1](http://atlasgeneticsoncology.org/Genes/SLC4A1ID42325ch17q21.html) |
| [EPB41L3](http://atlasgeneticsoncology.org/Genes/EPB41L3ID40458ch18p11.html) | 18p11.31  | EPB41L3 (erythrocyte membrane protein band 4.1-like 3) |
|  |  |  |
| Ep-CAM (Alias) | 2p21  | [EPCAM](http://atlasgeneticsoncology.org/Genes/TACSTD1ID42459ch2p21.html) |
| EpCAM (Alias) | 2p21  | [EPCAM](http://atlasgeneticsoncology.org/Genes/TACSTD1ID42459ch2p21.html) |
| [EPCAM](http://atlasgeneticsoncology.org/Genes/TACSTD1ID42459ch2p21.html) | 2p21  | EPCAM (tumor-associated calcium signal transducer 1) |
|  |  |  |
| EPG3 (Alias) | 17q23.1  | [VMP1](http://atlasgeneticsoncology.org/Genes/VMP1ID50079ch17q23.html) |
| EphA1 (Alias) | 7q34  | [EPHA1](http://atlasgeneticsoncology.org/Genes/EPHA1ID40461ch7q35.html) |
| [EPHA1](http://atlasgeneticsoncology.org/Genes/EPHA1ID40461ch7q35.html) | 7q34  | EPHA1 (EPH receptor A1) |
|  |  |  |
| [EPHA2](http://atlasgeneticsoncology.org/Genes/EPHA2ID40462ch1p36.html) | 1p36.13  | EPHA2 (EPH receptor A2) |
|  |  |  |
| EphA3 (Alias) | 3p11.1  | [EPHA3](http://atlasgeneticsoncology.org/Genes/EPHA3ID40463ch3p11.html) |
| [EPHA3](http://atlasgeneticsoncology.org/Genes/EPHA3ID40463ch3p11.html) | 3p11.1  | EPHA3 (EPH receptor A3) |
|  |  |  |
| [EPHA7](http://atlasgeneticsoncology.org/Genes/EPHA7ID40466ch6q16.html) | 6q16.1  | EPHA7 (EPH receptor A7) |
|  |  |  |
| EPH (Alias) | 7q34  | [EPHA1](http://atlasgeneticsoncology.org/Genes/EPHA1ID40461ch7q35.html) |
| [EPHB6](http://atlasgeneticsoncology.org/Genes/EPHB6ID40471ch7q34.html) | 7q34  | EPHB6 (EPH receptor B6) |
|  |  |  |
| EPHT1 (Alias) | 7q34  | [EPHA1](http://atlasgeneticsoncology.org/Genes/EPHA1ID40461ch7q35.html) |
| EPHT (Alias) | 7q34  | [EPHA1](http://atlasgeneticsoncology.org/Genes/EPHA1ID40461ch7q35.html) |
| Epican (Alias) | 11p13  | [CD44](http://atlasgeneticsoncology.org/Genes/CD44ID980CH11p13.html) |
| Epitempin-1 (Alias) | 10q23.33  | [LGI1](http://atlasgeneticsoncology.org/Genes/LGI1ID311ch10q23.html) |
| EPM1 (Alias) | 21q22.3  | [CSTB](http://atlasgeneticsoncology.org/Genes/CSTBID40181ch21q22.html) |
| EPS15 (EGFR Pathway Substrate 15) (Alias) | 1p32.3  | [EPS15](http://atlasgeneticsoncology.org/Genes/AF1pID11.html) |
| [EPS15](http://atlasgeneticsoncology.org/Genes/AF1pID11.html) | 1p32.3  | EPS15 (epidermal growth factor receptor pathway substrate 15) |
|  |  |  |
| [EPS8](http://atlasgeneticsoncology.org/Genes/EPS8ID40476ch12p12.html) | 12p12.3  | EPS8 (epidermal growth factor receptor pathway substrate 8) |
|  |  |  |
| EPT (Alias) | 10q23.33  | [LGI1](http://atlasgeneticsoncology.org/Genes/LGI1ID311ch10q23.html) |
| EPVE6AP (Alias) | 15q11.2  | [UBE3A](http://atlasgeneticsoncology.org/Genes/UBE3AID42756ch15q11.html) |
| Er1 (Alias) | 1p31.3  | [MIER1](http://atlasgeneticsoncology.org/Genes/MIER1ID50389ch1p31.html) |
| ER1 (Alias) | 1p31.3  | [MIER1](http://atlasgeneticsoncology.org/Genes/MIER1ID50389ch1p31.html) |
| ER81 (Alias) | 7p21.2  | [ETV1](http://atlasgeneticsoncology.org/Genes/ETV1ID73ch7p21.html) |
| ERBA2 (Alias) | 3p24.2  | [THRB](http://atlasgeneticsoncology.org/Genes/THRBID42554ch3p24.html) |
| Erb (Alias) | 14q23.2  | [ESR2](http://atlasgeneticsoncology.org/Genes/ESR2ID40500ch14q23.html) |
| [ERBB2](http://atlasgeneticsoncology.org/Genes/ERBB2ID162ch17q11.html) | 17q12  | ERBB2 (v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian)) |
|  |  |  |
| ErbB-3 (Alias) | 12q13.2  | [ERBB3](http://atlasgeneticsoncology.org/Genes/ERBB3ID40479ch12q13.html) |
| [ERBB3](http://atlasgeneticsoncology.org/Genes/ERBB3ID40479ch12q13.html) | 12q13.2  | ERBB3 (v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian)) |
|  |  |  |
| ER-BETA (Alias) | 14q23.2  | [ESR2](http://atlasgeneticsoncology.org/Genes/ESR2ID40500ch14q23.html) |
| [ERC1](http://atlasgeneticsoncology.org/Genes/ELKSID503.html) | 12p13.33  | ERC1 (ELKS/RAB6-interacting/CAST family member 1) |
|  |  |  |
| [ERCC1](http://atlasgeneticsoncology.org/Genes/ERCC1ID40481ch19q13.html) | 19q13.32  | ERCC1 (excision repair complementing defective repair in Chinese hamster.) |
|  |  |  |
| [ERCC2](http://atlasgeneticsoncology.org/Genes/XPDID297.html) | 19q13.32  | ERCC2 (Excision repair cross-complementing rodent repair deficiency, complementation group 2) |
|  |  |  |
| ERCC-3 (Excision repair cross-complementing rodent repair deficiency, complementation group 3) (Alias) | 2q14.3  | [ERCC3](http://atlasgeneticsoncology.org/Genes/XPBID296.html) |
| [ERCC3](http://atlasgeneticsoncology.org/Genes/XPBID296.html) | 2q14.3  | ERCC3 (Excision repair cross-complementing rodent repair deficiency, complementation group 3) |
|  |  |  |
| ERCC4 (Alias) | 16p13.12  | [ERCC4](http://atlasgeneticsoncology.org/Genes/XPFID299.html) |
| [ERCC4](http://atlasgeneticsoncology.org/Genes/XPFID299.html) | 16p13.12  | ERCC4 (xeroderma pigmentosum, complementation group F) |
|  |  |  |
| ERCC5 (Alias) | 13q33.1  | [ERCC5](http://atlasgeneticsoncology.org/Genes/XPGID300.html) |
| [ERCC5](http://atlasgeneticsoncology.org/Genes/XPGID300.html) | 13q33.1  | ERCC5 (xeroderma pigmentosum, complementation group G) |
|  |  |  |
| [ERCC6](http://atlasgeneticsoncology.org/Genes/CSBID302.html) | 10q11.23  | ERCC6 (excision repair cross-complementing rodent repair deficiency, complementation group 6) |
|  |  |  |
| ERCC8 (Alias) | 5q12.1  | [ERCC8](http://atlasgeneticsoncology.org/Genes/CSAID301.html) |
| [ERCC8](http://atlasgeneticsoncology.org/Genes/CSAID301.html) | 5q12.1  | ERCC8 (excision repair cross-complementing rodent repair deficiency, complementation group 8) |
|  |  |  |
| ERDA2 (Alias) | 12p13.31  | [ZNF384](http://atlasgeneticsoncology.org/Genes/ZNF384ID42881ch12p13.html) |
| ERF1 (Alias) | 20q13.31  | [TFAP2C](http://atlasgeneticsoncology.org/Genes/TFAP2CID42528ch20q13.html) |
| ERF1 (Alias) | 14q24.1  | [ZFP36L1](http://atlasgeneticsoncology.org/Genes/ZFP36L1ID42866ch14q22.html) |
| [ERG](http://atlasgeneticsoncology.org/Genes/ERGID53ch21q22.html) | 21q22.2  | ERG (v-ets erythroblastosis virus E26 oncogene like (avian)) |
| [ERGIC3](http://atlasgeneticsoncology.org/Genes/ERGIC3ID42222ch20q11.html) | 20q11.22  | ERGIC3 (ERGIC and golgi 3) |
|  |  |  |
| [ERG](http://atlasgeneticsoncology.org/Genes/ERGID53ch21q22.html) | 21q22.2  | ERG (v-ets erythroblastosis virus E26 oncogene like (avian)) |
| ERIC1 (Alias) | 4p16.3  | [TACC3](http://atlasgeneticsoncology.org/Genes/TACC3ID42458ch4p16.html) |
| ERK-1 (Alias) | 16p11.2  | [MAPK3](http://atlasgeneticsoncology.org/Genes/MAPK3ID425ch16p11.html) |
| ERK1 (Alias) | 16p11.2  | [MAPK3](http://atlasgeneticsoncology.org/Genes/MAPK3ID425ch16p11.html) |
| ERK-2 (Alias) | 22q11.21  | [MAPK1](http://atlasgeneticsoncology.org/Genes/MAPK1ID41288ch22q11.html) |
| ERK2 (Alias) | 22q11.21  | [MAPK1](http://atlasgeneticsoncology.org/Genes/MAPK1ID41288ch22q11.html) |
| ERK3 (Alias) | 22q13.33  | [MAPK12](http://atlasgeneticsoncology.org/Genes/MAPK12ID41290ch22q13.html) |
| ERK3 (Alias) | 15q21.2  | [MAPK6](http://atlasgeneticsoncology.org/Genes/MAPK6ID43349ch15q21.html) |
| ERK3-related (Alias) | 18q21.1  | [MAPK4](http://atlasgeneticsoncology.org/Genes/MAPK4ID41293ch18q21.html) |
| ERK4 (Alias) | 18q21.1  | [MAPK4](http://atlasgeneticsoncology.org/Genes/MAPK4ID41293ch18q21.html) |
| ERK4 (Alias) | 17p11.2  | [MAPK7](http://atlasgeneticsoncology.org/Genes/MAPK7ID41294ch17p11.html) |
| ERK5 (Alias) | 22q13.33  | [MAPK12](http://atlasgeneticsoncology.org/Genes/MAPK12ID41290ch22q13.html) |
| ERK5 (Alias) | 17p11.2  | [MAPK7](http://atlasgeneticsoncology.org/Genes/MAPK7ID41294ch17p11.html) |
| ERK-6 (Alias) | 22q13.33  | [MAPK12](http://atlasgeneticsoncology.org/Genes/MAPK12ID41290ch22q13.html) |
| ERK6 (Alias) | 22q13.33  | [MAPK12](http://atlasgeneticsoncology.org/Genes/MAPK12ID41290ch22q13.html) |
| ERK (Alias) | 22q11.21  | [MAPK1](http://atlasgeneticsoncology.org/Genes/MAPK1ID41288ch22q11.html) |
| ERR1 (Alias) | 11q13.1  | [ESRRA](http://atlasgeneticsoncology.org/Genes/ESRRAID44408ch11q13.html) |
| ERR3 (Alias) | 1q41  | [ESRRG](http://atlasgeneticsoncology.org/Genes/ESRRGID45840ch1q41.html) |
| ERRa (Alias) | 11q13.1  | [ESRRA](http://atlasgeneticsoncology.org/Genes/ESRRAID44408ch11q13.html) |
| ERR-alpha (Alias) | 11q13.1  | [ESRRA](http://atlasgeneticsoncology.org/Genes/ESRRAID44408ch11q13.html) |
| ERRalpha (Alias) | 11q13.1  | [ESRRA](http://atlasgeneticsoncology.org/Genes/ESRRAID44408ch11q13.html) |
| [ERRFI1](http://atlasgeneticsoncology.org/Genes/ERRFI1ID44147ch1p36.html) | 1p36.23  | ERRFI1 (ERBB receptor feedback inhibitor 1) |
|  |  |  |
| ERRG2 (Alias) | 1q41  | [ESRRG](http://atlasgeneticsoncology.org/Genes/ESRRGID45840ch1q41.html) |
| ERT1 (Alias) | 22q11.21  | [MAPK1](http://atlasgeneticsoncology.org/Genes/MAPK1ID41288ch22q11.html) |
| ERT2 (Alias) | 16p11.2  | [MAPK3](http://atlasgeneticsoncology.org/Genes/MAPK3ID425ch16p11.html) |
| Erv46 (Alias) | 20q11.22  | [ERGIC3](http://atlasgeneticsoncology.org/Genes/ERGIC3ID42222ch20q11.html) |
| ERVR (Alias) | 5q14.2  | [VCAN](http://atlasgeneticsoncology.org/Genes/VCANID40173ch5q14.html) |
| [ERVW-1](http://atlasgeneticsoncology.org/Genes/ERVWE1ID40497ch7q21.html) | -  | ERVW-1 (Endogenous Retroviral family W, Env (C7), member 1) |
|  |  |  |
| ERVWE1 (Alias) | -  | [ERVW-1](http://atlasgeneticsoncology.org/Genes/ERVWE1ID40497ch7q21.html) |
| ERYF1 (Alias) | Xp11.23  | [GATA1](http://atlasgeneticsoncology.org/Genes/GATA1ID40689chXp11.html) |
| Esa1 (Alias) | 11q13.1  | [KAT5](http://atlasgeneticsoncology.org/Genes/HTATIPID40893ch11q13.html) |
| ESE3 (Alias) | 11p13  | [EHF](http://atlasgeneticsoncology.org/Genes/EHFID40421ch11p13.html) |
| ESE3B (Alias) | 11p13  | [EHF](http://atlasgeneticsoncology.org/Genes/EHFID40421ch11p13.html) |
| ESEJ (Alias) | 11p13  | [EHF](http://atlasgeneticsoncology.org/Genes/EHFID40421ch11p13.html) |
| ESEL (Alias) | 1q24.2  | [SELE](http://atlasgeneticsoncology.org/Genes/SELEID42247ch1q22.html) |
| [ESR2](http://atlasgeneticsoncology.org/Genes/ESR2ID40500ch14q23.html) | 14q23.2  | ESR2 (Estrogen Receptor 2 (ER beta)) |
|  |  |  |
| ESRB (Alias) | 14q23.2  | [ESR2](http://atlasgeneticsoncology.org/Genes/ESR2ID40500ch14q23.html) |
| ESR-BETA (Alias) | 14q23.2  | [ESR2](http://atlasgeneticsoncology.org/Genes/ESR2ID40500ch14q23.html) |
| ESRL1 (Alias) | 11q13.1  | [ESRRA](http://atlasgeneticsoncology.org/Genes/ESRRAID44408ch11q13.html) |
| [ESRRA](http://atlasgeneticsoncology.org/Genes/ESRRAID44408ch11q13.html) | 11q13.1  | ESRRA (estrogen-related receptor alpha) |
|  |  |  |
| [ESRRG](http://atlasgeneticsoncology.org/Genes/ESRRGID45840ch1q41.html) | 1q41  | ESRRG (estrogen-related receptor gamma) |
|  |  |  |
| EST182763 (Alias) | 6p21.1  | [ABCC10](http://atlasgeneticsoncology.org/Genes/ABCC10ID47655ch6p21.html) |
| EST422562 (Alias) | 7p21.1  | [ABCB5](http://atlasgeneticsoncology.org/Genes/ABCB5ID44305ch7p15.html) |
| ESTRB (Alias) | 14q23.2  | [ESR2](http://atlasgeneticsoncology.org/Genes/ESR2ID40500ch14q23.html) |
| ETA-1 (Alias) | 4q22.1  | [SPP1](http://atlasgeneticsoncology.org/Genes/SPP1ID42379ch4q22.html) |
| ETK1 (Alias) | 3p11.1  | [EPHA3](http://atlasgeneticsoncology.org/Genes/EPHA3ID40463ch3p11.html) |
| ETK (Alias) | 3p11.1  | [EPHA3](http://atlasgeneticsoncology.org/Genes/EPHA3ID40463ch3p11.html) |
| ETL1 (Alias) | 10q23.33  | [LGI1](http://atlasgeneticsoncology.org/Genes/LGI1ID311ch10q23.html) |
| ETO (eigth twenty one) (Alias) | 8q21.3  | [RUNX1T1](http://atlasgeneticsoncology.org/Genes/ETOID26.html) |
| ETR-3 (Alias) | 10p14  | [CELF2](http://atlasgeneticsoncology.org/Genes/CELF2ID52815ch10p14.html) |
| ETR3 (Alias) | 10p14  | [CELF2](http://atlasgeneticsoncology.org/Genes/CELF2ID52815ch10p14.html) |
| ETS-1 (Alias) | 11q24.3  | [ETS1](http://atlasgeneticsoncology.org/Genes/ETS1ID40502ch11q24.html) |
| [ETS1](http://atlasgeneticsoncology.org/Genes/ETS1ID40502ch11q24.html) | 11q24.3  | ETS1 (v-ets erythroblastosis virus E26 oncogene homolog 1 (avian)) |
|  |  |  |
| Ets-2 (Alias) | 21q22.2  | [ETS2](http://atlasgeneticsoncology.org/Genes/ETS2ID40503ch21q22.html) |
| Ets2 (Alias) | 21q22.2  | [ETS2](http://atlasgeneticsoncology.org/Genes/ETS2ID40503ch21q22.html) |
| [ETS2](http://atlasgeneticsoncology.org/Genes/ETS2ID40503ch21q22.html) | 21q22.2  | ETS2 (v-ets erythroblastosis virus E26 oncogene homolog 2 (avian)) |
| ETS2IT1 (Alias) | 21q22.2  | [ETS2](http://atlasgeneticsoncology.org/Genes/ETS2ID40503ch21q22.html) |
|  |  |  |
| [ETV1](http://atlasgeneticsoncology.org/Genes/ETV1ID73ch7p21.html) | 7p21.2  | ETV1 (ets variant 1) |
|  |  |  |
| [ETV4](http://atlasgeneticsoncology.org/Genes/ETV4ID133ch17q21.html) | 17q21.31  | ETV4 (ets variant 4) |
|  |  |  |
| [ETV6](http://atlasgeneticsoncology.org/Genes/ETV6ID38.html) | 12p13.2  | ETV6 (ets variant 6) |
|  |  |  |
| EVEC (Alias) | 14q32.12  | [FBLN5](http://atlasgeneticsoncology.org/Genes/FBLN5ID46779ch14q32.html) |
| EVI16 (Alias) | 6p22.3  | [SOX4](http://atlasgeneticsoncology.org/Genes/SOX4ID42358ch6p22.html) |
| EVI1 (Alias) | 3q26.2  | [MECOM](http://atlasgeneticsoncology.org/Genes/EVI103q26ID19.html) |
| EVR1 (Alias) | 11q13.2  | [LRP5](http://atlasgeneticsoncology.org/Genes/LRP5ID44282ch11q13.html) |
| EVR4 (Alias) | 11q13.2  | [LRP5](http://atlasgeneticsoncology.org/Genes/LRP5ID44282ch11q13.html) |
| EWG (Alias) | 7q32.2  | [NRF1](http://atlasgeneticsoncology.org/Genes/NRF1ID44233ch7q32.html) |
| EWI-2 (Alias) | 1q23.2  | [IGSF8](http://atlasgeneticsoncology.org/Genes/IGSF8ID45820ch1q23.html) |
| EWI2 (Alias) | 1q23.2  | [IGSF8](http://atlasgeneticsoncology.org/Genes/IGSF8ID45820ch1q23.html) |
| EWS (Alias) | 22q12.2  | [EWSR1](http://atlasgeneticsoncology.org/Genes/EWSR1ID85.html) |
| [EWSR1](http://atlasgeneticsoncology.org/Genes/EWSR1ID85.html) | 22q12.2  | EWSR1 (Ewing sarcoma breakpoint region 1) |
|  |  |  |
| EWSR2 (Alias) | 11q24.3  | [ETS1](http://atlasgeneticsoncology.org/Genes/ETS1ID40502ch11q24.html) |
| EWSR2 (Alias) | 11q24.3  | [FLI1](http://atlasgeneticsoncology.org/Genes/FLI1ID79ch11q24.html) |
| EWWD (Alias) | 16q12.1  | [ABCC11](http://atlasgeneticsoncology.org/Genes/ABCC11ID538ch16q12.html) |
| EXIP (Alias) | 6p21.31  | [MAPK14](http://atlasgeneticsoncology.org/Genes/MAPK14ID41292ch6p21.html) |
| [EXT1](http://atlasgeneticsoncology.org/Genes/EXT1ID212.html) | 8q24.11  | EXT1 (exostosin 1) |
|  |  |  |
| [EXT2](http://atlasgeneticsoncology.org/Genes/EXT2ID213.html) | 11p11.2  | EXT2 exostoses (multiple) 2 |
|  |  |  |
| [EYA2](http://atlasgeneticsoncology.org/Genes/EYA2ID46126ch20q13.html) | 20q13.12  | EYA2 (EYA transcriptional coactivator and phosphatase 2) |
|  |  |  |
| Eyk (chicken) (Alias) | 2q13  | [MERTK](http://atlasgeneticsoncology.org/Genes/MERTKID41339ch2q13.html) |
| EZF (Alias) | 9q31.2  | [KLF4](http://atlasgeneticsoncology.org/Genes/KLF4ID44316ch9q31.html) |
| EZH1 (Alias) | 7q36.1  | [EZH2](http://atlasgeneticsoncology.org/Genes/EZH2ID40517ch7q36.html) |
| EZH2b (Alias) | 7q36.1  | [EZH2](http://atlasgeneticsoncology.org/Genes/EZH2ID40517ch7q36.html) |
| [EZH2](http://atlasgeneticsoncology.org/Genes/EZH2ID40517ch7q36.html) | 7q36.1  | EZH2 (enhancer of zeste homolog 2 (Drosophila)) |

|  |  |  |
| --- | --- | --- |
| F23149\_1 (Alias) | 19q13.2  | [PAF1](http://atlasgeneticsoncology.org/Genes/PAF1ID44202ch19q13.html) |
| F37 (Alias) | 8p21.3  | [LZTS1](http://atlasgeneticsoncology.org/Genes/LZTS1ID367ch8p21.html) |
| FA1 (Alias) | 16q24.3  | [FANCA](http://atlasgeneticsoncology.org/Genes/FA1ID102.html) |
| FA3 (Alias) | 9q22.32  | [FANCC](http://atlasgeneticsoncology.org/Genes/FACCID101.html) |
| FAA3 (Alias) | 3p24.1  | [TGFBR2](http://atlasgeneticsoncology.org/Genes/TGFBR2ID372ch3p24.html) |
| FAA (Alias) | 16q24.3  | [FANCA](http://atlasgeneticsoncology.org/Genes/FA1ID102.html) |
| FA (Alias) | 16q24.3  | [FANCA](http://atlasgeneticsoncology.org/Genes/FA1ID102.html) |
| FAAR (Alias) | 6p21.31  | [PPARD](http://atlasgeneticsoncology.org/Genes/PPARDID41794ch6p21.html) |
| [FABP5](http://atlasgeneticsoncology.org/Genes/FABP5ID49862ch8q21.html) | 8q21.13  | FABP5 (fatty acid binding protein 5 (psoriasis-associated)) |
|  |  |  |
| [FABP7](http://atlasgeneticsoncology.org/Genes/FABP7ID46256ch6p22.html) | 6q22.31  | FABP7 (fatty acid binding protein 7, brain) |
|  |  |  |
| FABPB (Alias) | 6q22.31  | [FABP7](http://atlasgeneticsoncology.org/Genes/FABP7ID46256ch6p22.html) |
| FACA (Alias) | 16q24.3  | [FANCA](http://atlasgeneticsoncology.org/Genes/FA1ID102.html) |
| FAC (Alias) | 9q22.32  | [FANCC](http://atlasgeneticsoncology.org/Genes/FACCID101.html) |
| FACC (Alias) | 9q22.32  | [FANCC](http://atlasgeneticsoncology.org/Genes/FACCID101.html) |
| FACD (Alias) | 13q13.1  | [BRCA2](http://atlasgeneticsoncology.org/Genes/BRCA2ID164ch13q13.html) |
| FACD (Alias) | 3p25.3  | [FANCD2](http://atlasgeneticsoncology.org/Genes/FADID103.html) |
| FACE (Alias) | 6p21.31  | [FANCE](http://atlasgeneticsoncology.org/Genes/FANCEID293.html) |
| Factors E12/E47 (Alias) | 19p13.3  | [TCF3](http://atlasgeneticsoncology.org/Genes/E2AID50.html) |
| FAD1 (Alias) | 13q13.1  | [BRCA2](http://atlasgeneticsoncology.org/Genes/BRCA2ID164ch13q13.html) |
| FAD2 (Alias) | 3p25.3  | [FANCD2](http://atlasgeneticsoncology.org/Genes/FADID103.html) |
| FAD (Alias) | 13q13.1  | [BRCA2](http://atlasgeneticsoncology.org/Genes/BRCA2ID164ch13q13.html) |
| FAD (Alias) | 3p25.3  | [FANCD2](http://atlasgeneticsoncology.org/Genes/FADID103.html) |
| FADK (Alias) | 8q24.3  | [PTK2](http://atlasgeneticsoncology.org/Genes/PTK2ID41898ch8q24.html) |
| FAE (Alias) | 6p21.31  | [FANCE](http://atlasgeneticsoncology.org/Genes/FANCEID293.html) |
| FAF (Alias) | 11p14.3  | [FANCF](http://atlasgeneticsoncology.org/Genes/FANCFID294.html) |
| FAG (Alias) | 9p13.3  | [FANCG](http://atlasgeneticsoncology.org/Genes/FANCGID295.html) |
| FA-H (Alias) | 16q24.3  | [FANCA](http://atlasgeneticsoncology.org/Genes/FA1ID102.html) |
| FAH (Alias) | 16q24.3  | [FANCA](http://atlasgeneticsoncology.org/Genes/FA1ID102.html) |
| FAIM1 (Alias) | 3q22.3  | [FAIM](http://atlasgeneticsoncology.org/Genes/FAIMID43251ch3q22.html) |
| [FAIM](http://atlasgeneticsoncology.org/Genes/FAIMID43251ch3q22.html) | 3q22.3  | FAIM (Fas apoptotic inhibitory molecule) |
|  |  |  |
| FAK1 (Alias) | 8q24.3  | [PTK2](http://atlasgeneticsoncology.org/Genes/PTK2ID41898ch8q24.html) |
| FAK (Alias) | 8q24.3  | [PTK2](http://atlasgeneticsoncology.org/Genes/PTK2ID41898ch8q24.html) |
| [FAM107A](http://atlasgeneticsoncology.org/Genes/FAM107AID42728ch3p14.html) | 3p14.3  | FAM107A (family with sequence similarity 107, member A) |
|  |  |  |
| FAM123B (family with sequence similarity 123B) (Alias) | Xq11.2  | [AMER1](http://atlasgeneticsoncology.org/Genes/FAM123BID44119chXq11.html) |
| [FAM57A](http://atlasgeneticsoncology.org/Genes/FAM57AID40183ch17p13.html) | 17p13.3  | FAM57A (family with sequence similarity 57, member A) |
|  |  |  |
| FAN1 (Alias) | 7p22.1  | [FSCN1](http://atlasgeneticsoncology.org/Genes/FSCN1ID44342ch7p22.html) |
| [FANCA](http://atlasgeneticsoncology.org/Genes/FA1ID102.html) | 16q24.3  | FANCA (Fanconi anemia, complementation group A) |
|  |  |  |
| FANCB (Alias) | 13q13.1  | [BRCA2](http://atlasgeneticsoncology.org/Genes/BRCA2ID164ch13q13.html) |
| [FANCC](http://atlasgeneticsoncology.org/Genes/FACCID101.html) | 9q22.32  | FANCC (Fanconi anaemia complementation group C) |
|  |  |  |
| FANCD1 (Alias) | 13q13.1  | [BRCA2](http://atlasgeneticsoncology.org/Genes/BRCA2ID164ch13q13.html) |
| [FANCD2](http://atlasgeneticsoncology.org/Genes/FADID103.html) | 3p25.3  | FANCD2 (Fanconi anemia, complementation group D2) |
|  |  |  |
| FANCD (Alias) | 13q13.1  | [BRCA2](http://atlasgeneticsoncology.org/Genes/BRCA2ID164ch13q13.html) |
| FANCD (Alias) | 3p25.3  | [FANCD2](http://atlasgeneticsoncology.org/Genes/FADID103.html) |
| [FANCE](http://atlasgeneticsoncology.org/Genes/FANCEID293.html) | 6p21.31  | FANCE (Fanconi anemia, complementation group E) |
|  |  |  |
| [FANCF](http://atlasgeneticsoncology.org/Genes/FANCFID294.html) | 11p14.3  | FANCF (Fanconi anemia, complementation group F) |
|  |  |  |
| [FANCG](http://atlasgeneticsoncology.org/Genes/FANCGID295.html) | 9p13.3  | FANCG (Fanconi anemia, complementation group G) |
|  |  |  |
| FANCH (Alias) | 16q24.3  | [FANCA](http://atlasgeneticsoncology.org/Genes/FA1ID102.html) |
| FAP-1 (Alias) | 4q21.3  | [PTPN13](http://atlasgeneticsoncology.org/Genes/PTPN13ID41912ch4q21.html) |
| FAP48 (Alias) | 1p22.1  | [GLMN](http://atlasgeneticsoncology.org/Genes/GLMNID43022ch1p22.html) |
| FAP68 (Alias) | 1p22.1  | [GLMN](http://atlasgeneticsoncology.org/Genes/GLMNID43022ch1p22.html) |
| FASCIN1 (Alias) | 7p22.1  | [FSCN1](http://atlasgeneticsoncology.org/Genes/FSCN1ID44342ch7p22.html) |
| FAT10 (Alias) | 6p22.1  | [UBD](http://atlasgeneticsoncology.org/Genes/UBDID43742ch6p22.html) |
| [FAT1](http://atlasgeneticsoncology.org/Genes/FAT1ID40533ch4q35.html) | 4q35.2  | FAT1 (FAT tumor suppressor homolog 1 (Drosophila)) |
|  |  |  |
| FAT (Alias) | 4q35.2  | [FAT1](http://atlasgeneticsoncology.org/Genes/FAT1ID40533ch4q35.html) |
| FAU1 (Alias) | 11q13.1  | [FAU](http://atlasgeneticsoncology.org/Genes/FAUID40538ch11q13.html) |
| [FAU](http://atlasgeneticsoncology.org/Genes/FAUID40538ch11q13.html) | 11q13.1  | FAU (Finkel-Biskis-Reilly murine sarcoma virus (FBR-MuSV) ubiquitously expressed) |
|  |  |  |
| FB1 (Alias) | 19q13.42  | [TFPT](http://atlasgeneticsoncology.org/Genes/TFPTID495ch19q13.html) |
| FBI-1 (Alias) | 19p13.3  | [ZBTB7A](http://atlasgeneticsoncology.org/Genes/ZBTB7AID42863ch19p13.html) |
| FBI1 (Alias) | 19p13.3  | [ZBTB7A](http://atlasgeneticsoncology.org/Genes/ZBTB7AID42863ch19p13.html) |
| [FBLN1](http://atlasgeneticsoncology.org/Genes/FBLN1ID44462ch22q13.html) | 22q13.31  | FBLN1 (fibulin 1) |
|  |  |  |
| FBLN3 (Alias) | 2p16.1  | [EFEMP1](http://atlasgeneticsoncology.org/Genes/EFEMP1ID49818ch2p16.html) |
| [FBLN5](http://atlasgeneticsoncology.org/Genes/FBLN5ID46779ch14q32.html) | 14q32.12  | FBLN5 (fibulin 5) |
|  |  |  |
| FBLN (Alias) | 22q13.31  | [FBLN1](http://atlasgeneticsoncology.org/Genes/FBLN1ID44462ch22q13.html) |
| FBNL (Alias) | 2p16.1  | [EFEMP1](http://atlasgeneticsoncology.org/Genes/EFEMP1ID49818ch2p16.html) |
| FBP17 (Formin Binding Protein 17) (Alias) | 9q34.11  | [FNBP1](http://atlasgeneticsoncology.org/Genes/FBP17ID353.html) |
| FBP (Alias) | 1p31.1  | [FUBP1](http://atlasgeneticsoncology.org/Genes/FUBP1ID50675ch1p31.html) |
| FBRSL2 (Alias) | 7q11.22  | [AUTS2](http://atlasgeneticsoncology.org/Genes/AUTS2ID51794ch7q11.html) |
| FBW1A (Alias) | 10q24.32  | [BTRC](http://atlasgeneticsoncology.org/Genes/BTRCID451ch10q24.html) |
| FBX11 (Alias) | 2p16.3  | [FBXO11](http://atlasgeneticsoncology.org/Genes/FBXO11ID52605ch2p16.html) |
| FBX14 (Alias) | 16q24.2  | [FBXO31](http://atlasgeneticsoncology.org/Genes/FBXO31ID44280ch16q24.html) |
| Fbx31 (Alias) | 16q24.2  | [FBXO31](http://atlasgeneticsoncology.org/Genes/FBXO31ID44280ch16q24.html) |
| FBX31 (Alias) | 16q24.2  | [FBXO31](http://atlasgeneticsoncology.org/Genes/FBXO31ID44280ch16q24.html) |
| [FBXO11](http://atlasgeneticsoncology.org/Genes/FBXO11ID52605ch2p16.html) | 2p16.3  | FBXO11 (F-box protein 11) |
|  |  |  |
| FBXO14 (Alias) | 16q24.2  | [FBXO31](http://atlasgeneticsoncology.org/Genes/FBXO31ID44280ch16q24.html) |
| [FBXO31](http://atlasgeneticsoncology.org/Genes/FBXO31ID44280ch16q24.html) | 16q24.2  | FBXO31 (F-box protein 31) |
|  |  |  |
| FBXW1A (Alias) | 10q24.32  | [BTRC](http://atlasgeneticsoncology.org/Genes/BTRCID451ch10q24.html) |
| FBXW1 (Alias) | 10q24.32  | [BTRC](http://atlasgeneticsoncology.org/Genes/BTRCID451ch10q24.html) |
| FCC1 (Alias) | 2p21  | [MSH2](http://atlasgeneticsoncology.org/Genes/MSH2ID340ch2p22.html) |
| FCC2 (Alias) | 3p22.2  | [MLH1](http://atlasgeneticsoncology.org/Genes/MLH1ID149ch3p21.html) |
| FCE2 (Alias) | 19p13.2  | [FCER2](http://atlasgeneticsoncology.org/Genes/FCER2ID44222ch19p13.html) |
| [FCER2](http://atlasgeneticsoncology.org/Genes/FCER2ID44222ch19p13.html) | 19p13.2  | FCER2 (Fc fragment of IgE, low affinity II, receptor for (CD23)) |
|  |  |  |
| FCG2 (Alias) | 1q23.3  | [FCGR2B](http://atlasgeneticsoncology.org/Genes/FCGR2BID397.html) |
| FCGR2 (Alias) | 1q23.3  | [FCGR2B](http://atlasgeneticsoncology.org/Genes/FCGR2BID397.html) |
| [FCGR2B](http://atlasgeneticsoncology.org/Genes/FCGR2BID397.html) | 1q23.3  | FCGR2B (Fc fragment of IgG, low affinity IIb, receptor (CD32)) |
|  |  |  |
| FCHL1 (Alias) | 1q23.3  | [USF1](http://atlasgeneticsoncology.org/Genes/USF1ID45856ch1q23.html) |
| FCHL (Alias) | 1q23.3  | [USF1](http://atlasgeneticsoncology.org/Genes/USF1ID45856ch1q23.html) |
| FEG-1 (Alias) | 7p22.3  | [GPER1](http://atlasgeneticsoncology.org/Genes/GPERID44344ch7p22.html) |
| FEL (Alias) | 4q21.3  | [AFF1](http://atlasgeneticsoncology.org/Genes/AF4ID3.html) |
| FEN-1 (Alias) | 11q12.2  | [FEN1](http://atlasgeneticsoncology.org/Genes/FEN1ID40543ch11q12.html) |
| [FEN1](http://atlasgeneticsoncology.org/Genes/FEN1ID40543ch11q12.html) | 11q12.2  | FEN1 (flap structure-specific endonuclease 1) |
|  |  |  |
| FETA (Alias) | 4q13.3  | [AFP](http://atlasgeneticsoncology.org/Genes/AFPID44248ch4q13.html) |
| FEZ1 (Alias) | 8p21.3  | [LZTS1](http://atlasgeneticsoncology.org/Genes/LZTS1ID367ch8p21.html) |
| FFDD3 (Alias) | 2q37.3  | [TWIST2](http://atlasgeneticsoncology.org/Genes/TWIST2ID43639ch2q37.html) |
| FGA7 (Alias) | 4q28  | [FGA7](http://atlasgeneticsoncology.org/Genes/FGA7ID525.html) |
| [FGA7](http://atlasgeneticsoncology.org/Genes/FGA7ID525.html) | 4q28  | FGA7 (Fused Gene 7 to AML1) |
| FGF-1 (Alias) | 5q31.3  | [FGF1](http://atlasgeneticsoncology.org/Genes/FGF1ID40549ch5q31.html) |
| [FGF1](http://atlasgeneticsoncology.org/Genes/FGF1ID40549ch5q31.html) | 5q31.3  | FGF1 (fibroblast growth factor 1 (acidic)) |
|  |  |  |
| FGF-2 (Alias) | 4q28.1  | [NUDT6](http://atlasgeneticsoncology.org/Genes/NUDT6ID41593ch4q28.html) |
| FGF2AS (Alias) | 4q28.1  | [NUDT6](http://atlasgeneticsoncology.org/Genes/NUDT6ID41593ch4q28.html) |
| [FGF2](http://atlasgeneticsoncology.org/Genes/FGF2ID511ch4q27.html) | 4q27  | FGF2 (fibroblast growth factor 2 (basic)) |
|  |  |  |
| FGF-8 (Alias) | 10q24.32  | [FGF8](http://atlasgeneticsoncology.org/Genes/FGF8ID40566ch10q24.html) |
| [FGF8](http://atlasgeneticsoncology.org/Genes/FGF8ID40566ch10q24.html) | 10q24.32  | FGF8 (fibroblast growth factor 8 (androgen-induced)) |
|  |  |  |
| FGFA (Alias) | 5q31.3  | [FGF1](http://atlasgeneticsoncology.org/Genes/FGF1ID40549ch5q31.html) |
| FGF-alpha (Alias) | 5q31.3  | [FGF1](http://atlasgeneticsoncology.org/Genes/FGF1ID40549ch5q31.html) |
| FGF-AS (Alias) | 4q28.1  | [NUDT6](http://atlasgeneticsoncology.org/Genes/NUDT6ID41593ch4q28.html) |
| FGFB (Alias) | 4q27  | [FGF2](http://atlasgeneticsoncology.org/Genes/FGF2ID511ch4q27.html) |
| FGFBR (FGFb receptor) (Alias) | 8p11.23  | [FGFR1](http://atlasgeneticsoncology.org/Genes/FGFR1ID113.html) |
| [FGFR1](http://atlasgeneticsoncology.org/Genes/FGFR1ID113.html) | 8p11.23  | FGFR1 (Fibroblast Growth Factor Receptor 1) |
|  |  |  |
| [FGFR1OP](http://atlasgeneticsoncology.org/Genes/FOPID140.html) | 6q27  | FGFR1OP (FGFR1 oncogene partner) |
|  |  |  |
| [FGFR2](http://atlasgeneticsoncology.org/Genes/FGFR2ID40570ch10q26.html) | 10q26.13  | FGFR2 (fibroblast growth factor receptor 2) |
|  |  |  |
| [FGFR3](http://atlasgeneticsoncology.org/Genes/FGFRID99.html) | 4p16.3  | FGFR3 (Fibroblast Growth Factor Receptor 3) |
|  |  |  |
| [FGFR4](http://atlasgeneticsoncology.org/Genes/FGFR4ID512ch5q35.html) | 5q35.2  | FGFR4 (fibroblast growth factor receptor 4) |
|  |  |  |
| [FH](http://atlasgeneticsoncology.org/Genes/FHID40573ch1q42.html) | 1q43  | FH (fumarate hydratase). |
| FHH (Alias) | 3q21.1  | [CASR](http://atlasgeneticsoncology.org/Genes/CASRID43977ch3q21.html) |
|  |  |  |
| [FHIT](http://atlasgeneticsoncology.org/Genes/FHITID192ch3p14.html) | 3p14.2  | FHIT (Fragile Histidine Triad) |
|  |  |  |
| FHL-2 (Alias) | 2q12.1  | [FHL2](http://atlasgeneticsoncology.org/Genes/FHL2ID44092ch2q12.html) |
| [FHL2](http://atlasgeneticsoncology.org/Genes/FHL2ID44092ch2q12.html) | 2q12.1  | FHL2 (four and a half LIM domains 2) |
|  |  |  |
| FIBL-1 (Alias) | 22q13.31  | [FBLN1](http://atlasgeneticsoncology.org/Genes/FBLN1ID44462ch22q13.html) |
| FIBL-3 (Alias) | 2p16.1  | [EFEMP1](http://atlasgeneticsoncology.org/Genes/EFEMP1ID49818ch2p16.html) |
| FIBL-5 (Alias) | 14q32.12  | [FBLN5](http://atlasgeneticsoncology.org/Genes/FBLN5ID46779ch14q32.html) |
| FIGC (Alias) | 2p11.2  | [KCMF1](http://atlasgeneticsoncology.org/Genes/KCMF1ID46364ch2p11.html) |
| [FIGF](http://atlasgeneticsoncology.org/Genes/FIGFID40574chXp22.html) | Xp22.2  | FIGF (c-fos induced growth factor (vascular endothelial growth factor D)) |
|  |  |  |
| FIH (Alias) | 3q21.1  | [CASR](http://atlasgeneticsoncology.org/Genes/CASRID43977ch3q21.html) |
| FIM2 (Alias) | 5q32  | [CSF1R](http://atlasgeneticsoncology.org/Genes/CSF1RID40161ch5q32.html) |
| FIM (fused in myeloproliferative disorders). (Alias) | 13q12.11  | [ZMYM2](http://atlasgeneticsoncology.org/Genes/ZNF198ID114.html) |
| FINB (Alias) | 6p24.3  | [RREB1](http://atlasgeneticsoncology.org/Genes/RREB1ID51424ch6p24.html) |
| Fisp12 (Alias) | 6q23.2  | [CTGF](http://atlasgeneticsoncology.org/Genes/CTGFID40192ch6q23.html) |
| FKBP16 (Alias) | 11q13.2  | [AIP](http://atlasgeneticsoncology.org/Genes/AIPID604ch11q13.html) |
| FKBP37 (Alias) | 11q13.2  | [AIP](http://atlasgeneticsoncology.org/Genes/AIPID604ch11q13.html) |
| FKBP38 (Alias) | 19p13.11  | [FKBP8](http://atlasgeneticsoncology.org/Genes/FKBP8ID40579ch19p13.html) |
| FKBP51 (Alias) | 6p21.31  | [FKBP5](http://atlasgeneticsoncology.org/Genes/FKBP5ID40578ch6p21.html) |
| FKBP54 (Alias) | 6p21.31  | [FKBP5](http://atlasgeneticsoncology.org/Genes/FKBP5ID40578ch6p21.html) |
| [FKBP5](http://atlasgeneticsoncology.org/Genes/FKBP5ID40578ch6p21.html) | 6p21.31  | FKBP5 (FK506 binding protein 5) |
|  |  |  |
| [FKBP8](http://atlasgeneticsoncology.org/Genes/FKBP8ID40579ch19p13.html) | 19p13.11  | FKBP8 (FK506 binding protein 8, 38kDa) |
|  |  |  |
| FKBPr38 (Alias) | 19p13.11  | [FKBP8](http://atlasgeneticsoncology.org/Genes/FKBP8ID40579ch19p13.html) |
| FKH1 (Alias) | 13q14.11  | [FOXO1](http://atlasgeneticsoncology.org/Genes/FOXO1ID83ch13q14.html) |
| FKHL15 (Alias) | 9q22.33  | [FOXE1](http://atlasgeneticsoncology.org/Genes/FOXE1ID47197ch9q22.html) |
| FKHL16 (Alias) | 12p13.33  | [FOXM1](http://atlasgeneticsoncology.org/Genes/FOXM1ID40631ch12p13.html) |
| FKHL5 (Alias) | 16q24.1  | [FOXF1](http://atlasgeneticsoncology.org/Genes/FOXF1ID40628ch16q24.html) |
| FKHL7 (Alias) | 6p25.3  | [FOXC1](http://atlasgeneticsoncology.org/Genes/FOXC1ID40624ch6p25.html) |
| FKHR (Alias) | 13q14.11  | [FOXO1](http://atlasgeneticsoncology.org/Genes/FOXO1ID83ch13q14.html) |
| FKHRL1 (forkhead homolog rhabdomyosarcoma like 1) (Alias) | 6q21  | [FOXO3](http://atlasgeneticsoncology.org/Genes/AF6q21ID125.html) |
| FLAME-1 (Alias) | 2q33.1  | [CFLAR](http://atlasgeneticsoncology.org/Genes/CFLARID40065ch2q33.html) |
| FLAME1 (Alias) | 2q33.1  | [CFLAR](http://atlasgeneticsoncology.org/Genes/CFLARID40065ch2q33.html) |
| FLAME (Alias) | 2q33.1  | [CFLAR](http://atlasgeneticsoncology.org/Genes/CFLARID40065ch2q33.html) |
| FLCL (Alias) | 17p11.2  | [FLCN](http://atlasgeneticsoncology.org/Genes/FLCNID789ch17p11.html) |
| [FLCN](http://atlasgeneticsoncology.org/Genes/FLCNID789ch17p11.html) | 17p11.2  | FLCN (folliculin gene) |
|  |  |  |
| FLG (FMS-like gene) (Alias) | 8p11.23  | [FGFR1](http://atlasgeneticsoncology.org/Genes/FGFR1ID113.html) |
| [FLI1](http://atlasgeneticsoncology.org/Genes/FLI1ID79ch11q24.html) | 11q24.3  | FLI1 (Friend leukemia virus integration 1) |
|  |  |  |
| FLICE (Alias) | 2q33.1  | [CASP8](http://atlasgeneticsoncology.org/Genes/CASP8ID925ch2q33.html) |
| FLIP (Alias) | 2q33.1  | [CFLAR](http://atlasgeneticsoncology.org/Genes/CFLARID40065ch2q33.html) |
| FLJ00034 (Alias) | 19q13.33  | [SCAF1](http://atlasgeneticsoncology.org/Genes/SCAF1ID46074ch19q13.html) |
| FLJ00245 (Alias) | 10q22.1  | [PSAP](http://atlasgeneticsoncology.org/Genes/PSAPID42980ch10q22.html) |
| FLJ10169 (Alias) | 17q23.2  | [TBX2](http://atlasgeneticsoncology.org/Genes/TBX2ID42485ch17q23.html) |
| FLJ10385 (Alias) | 17p13.1  | [WRAP53](http://atlasgeneticsoncology.org/Genes/WRAP53ID50705ch17p13.html) |
| FLJ10517 (Alias) | 1q31.3  | [ASPM](http://atlasgeneticsoncology.org/Genes/ASPMID44463ch1q31.html) |
| FLJ10549 (Alias) | 1q31.3  | [ASPM](http://atlasgeneticsoncology.org/Genes/ASPMID44463ch1q31.html) |
| FLJ10582 (Alias) | 3q22.3  | [FAIM](http://atlasgeneticsoncology.org/Genes/FAIMID43251ch3q22.html) |
| FLJ10768 (Alias) | 11q24.3  | [ETS1](http://atlasgeneticsoncology.org/Genes/ETS1ID40502ch11q24.html) |
| FLJ10773 (Alias) | 1q42.12  | [ENAH](http://atlasgeneticsoncology.org/Genes/ENAHID44148ch1q42.html) |
| FLJ10796 (Alias) | 12q24.33  | [CHFR](http://atlasgeneticsoncology.org/Genes/CHFRID526.html) |
| FLJ10942 (Alias) | 2p21  | [EML4](http://atlasgeneticsoncology.org/Genes/EML4ID44353ch2p21.html) |
| FLJ11123 (Alias) | 19q13.2  | [PAF1](http://atlasgeneticsoncology.org/Genes/PAF1ID44202ch19q13.html) |
| FLJ11259 (Alias) | 12q23.2  | [DRAM1](http://atlasgeneticsoncology.org/Genes/DRAMID44093ch12q23.html) |
| FLJ12015 (Alias) | 8q22.3  | [BAALC](http://atlasgeneticsoncology.org/Genes/BAALCID739ch8q22.html) |
| FLJ12176 (Alias) | 16q23.1  | [BCAR1](http://atlasgeneticsoncology.org/Genes/BCAR1ID761ch16q23.html) |
| FLJ12388 (Alias) | 11q13.4  | [NEU3](http://atlasgeneticsoncology.org/Genes/NEU3ID44505ch11q13.html) |
| FLJ12850 (Alias) | 3q13.13  | [KIAA1524](http://atlasgeneticsoncology.org/Genes/KIAA1524ID44402ch3q13.html) |
| FLJ13159 (Alias) | 6q13  | [SMAP1](http://atlasgeneticsoncology.org/Genes/SMAP1ID42974ch6q13.html) |
| FLJ13161 (Alias) | 13q12.11  | [LATS2](http://atlasgeneticsoncology.org/Genes/LATS2ID41128ch13q12.html) |
| FLJ13449 (Alias) | 13q31.1  | [POU4F1](http://atlasgeneticsoncology.org/Genes/POU4F1ID44173ch13q31.html) |
| FLJ14027 (Alias) | 19p13.11  | [CRTC1](http://atlasgeneticsoncology.org/Genes/CRTC1ID471ch19p13.html) |
| FLJ14031 (Alias) | 20q13.2  | [ZNF217](http://atlasgeneticsoncology.org/Genes/ZNF217ID42875ch20q13.html) |
| FLJ14295 (Alias) | 8p22  | [MTUS1](http://atlasgeneticsoncology.org/Genes/MTUS1ID41451ch8p22.html) |
| FLJ14303 (Alias) | 19p13.2  | [MUC16](http://atlasgeneticsoncology.org/Genes/MUC16ID41455ch19q13.html) |
| FLJ14393 (Alias) | 3q11.2  | [MINA](http://atlasgeneticsoncology.org/Genes/MINAID44409ch3q11.html) |
| FLJ14651 (Alias) | 1q21.1  | [PIAS3](http://atlasgeneticsoncology.org/Genes/PIAS3ID41709ch1q21.html) |
| FLJ16023 (Alias) | 1q41  | [ESRRG](http://atlasgeneticsoncology.org/Genes/ESRRGID45840ch1q41.html) |
| FLJ16293 (Alias) | 19p13.2  | [DNMT1](http://atlasgeneticsoncology.org/Genes/DNMT1ID40347ch19p13.html) |
| FLJ16340 (Alias) | 7q22.3  | [HBP1](http://atlasgeneticsoncology.org/Genes/HBP1ID40791ch7q22.html) |
| FLJ16467 (Alias) | 15q15.1  | [TYRO3](http://atlasgeneticsoncology.org/Genes/TYRO3ID42739ch15q15.html) |
| FLJ16517 (Alias) | 6q16.3  | [LIN28B](http://atlasgeneticsoncology.org/Genes/LIN28BID45723ch6q16.html) |
| FLJ16691 (Alias) | 12q24.23  | [PXN](http://atlasgeneticsoncology.org/Genes/PXNID41953ch12q24.html) |
| FLJ20063 (Alias) | 3q21.2  | [MUC13](http://atlasgeneticsoncology.org/Genes/MUC13ID41454ch3q21.html) |
| FLJ20180 (Alias) | 16q12.1  | [CYLD](http://atlasgeneticsoncology.org/Genes/CYLDID40232ch16q12.html) |
| FLJ20276 (Alias) | 9p22.2  | [SH3GL2](http://atlasgeneticsoncology.org/Genes/SH3GL2ID44345ch9p22.html) |
| FLJ20359 (Alias) | 7p22.3  | [CYP2W1](http://atlasgeneticsoncology.org/Genes/CYP2W1ID44337ch7p22.html) |
| FLJ20495 (Alias) | 20q13.13  | [BCAS4](http://atlasgeneticsoncology.org/Genes/BCAS4ID767.html) |
| FLJ20648 (Alias) | 1p36.33  | [MIB2](http://atlasgeneticsoncology.org/Genes/MIB2ID44179ch1p36.html) |
| FLJ20940 (Alias) | 17q12  | [PPP1R1B](http://atlasgeneticsoncology.org/Genes/PPP1R1BID44096ch17q12.html) |
| FLJ21080 (Alias) | 1q44  | [SMYD3](http://atlasgeneticsoncology.org/Genes/SMYD3ID46100ch1q44.html) |
| FLJ21120 (Alias) | 8p22  | [DLC1](http://atlasgeneticsoncology.org/Genes/DLC1ID40328ch8p22.html) |
| FLJ21437 (Alias) | 13Q14  | [LIN00598](http://atlasgeneticsoncology.org/Genes/TTLID529ch13q14.html) |
| FLJ21882 (Alias) | 3p12.3  | [ROBO1](http://atlasgeneticsoncology.org/Genes/ROBO1ID42140ch3p12.html) |
| FLJ22282 (Alias) | 17p13.3  | [FAM57A](http://atlasgeneticsoncology.org/Genes/FAM57AID40183ch17p13.html) |
| FLJ22402 (Alias) | 15q24.2  | [NEIL1](http://atlasgeneticsoncology.org/Genes/NEIL1ID41519ch15q24.html) |
| FLJ22418 (Alias) | 1p13.1  | [VTCN1](http://atlasgeneticsoncology.org/Genes/VTCN1ID44144ch1p13.html) |
| FLJ22477 (Alias) | 16q24.2  | [FBXO31](http://atlasgeneticsoncology.org/Genes/FBXO31ID44280ch16q24.html) |
| FLJ22588 (Alias) | 1p13.2  | [BCL2L15](http://atlasgeneticsoncology.org/Genes/BCL2L15ID46259ch1p13.html) |
| FLJ22623 (Alias) | 3q21.1  | [HSPBAP1](http://atlasgeneticsoncology.org/Genes/HSPBAP1ID513.html) |
| FLJ22986 (Alias) | 11q13.1  | [FAU](http://atlasgeneticsoncology.org/Genes/FAUID40538ch11q13.html) |
| FLJ23283 (Alias) | 20q11.21  | [PLAGL2](http://atlasgeneticsoncology.org/Genes/PLAGL2ID41738ch20q11.html) |
| FLJ23316 (Alias) | 1q31.2  | [CDC73](http://atlasgeneticsoncology.org/Genes/CDC73ID181ch1q31.html) |
| FLJ23544 (Alias) | Xq28  | [RPL10](http://atlasgeneticsoncology.org/Genes/RPL10ID42148chXq28.html) |
| FLJ23693 (Alias) | 2q31.2  | [PDE11A](http://atlasgeneticsoncology.org/Genes/PDE11AID44448ch2q31.html) |
| FLJ23711 (Alias) | 7q34  | [HIPK2](http://atlasgeneticsoncology.org/Genes/HIPK2ID40824ch7q34.html) |
| FLJ23741 (Alias) | 3p13  | [FOXP1](http://atlasgeneticsoncology.org/Genes/FOXP1ID40632ch3p14.html) |
| FLJ25015 (Alias) | 9p22.2  | [SH3GL2](http://atlasgeneticsoncology.org/Genes/SH3GL2ID44345ch9p22.html) |
| FLJ25385 (Alias) | 1q32.1  | [ADIPOR1](http://atlasgeneticsoncology.org/Genes/ADIPOR1ID44512ch1q32.html) |
| FLJ26106 (Alias) | 9q33.3  | [HSPA5](http://atlasgeneticsoncology.org/Genes/HSPA5ID40876ch9q33.html) |
| FLJ26504 (Alias) | 1q21.3  | [SHC1](http://atlasgeneticsoncology.org/Genes/SHC1ID42287ch1q21.html) |
| FLJ26626 (Alias) | 5p13.1  | [DAP2IP](http://atlasgeneticsoncology.org/Genes/DAB2ID40258ch5p13.html) |
| FLJ26963 (Alias) | 11p15.1  | [HTATIP2](http://atlasgeneticsoncology.org/Genes/HTATIP2ID40894ch11p15.html) |
| FLJ26981 (Alias) | 15q11.2  | [UBE3A](http://atlasgeneticsoncology.org/Genes/UBE3AID42756ch15q11.html) |
| FLJ27072 (Alias) | Xq28  | [RPL10](http://atlasgeneticsoncology.org/Genes/RPL10ID42148chXq28.html) |
| FLJ30158 (Alias) | 3p14.3  | [FAM107A](http://atlasgeneticsoncology.org/Genes/FAM107AID42728ch3p14.html) |
| FLJ31037 (Alias) | 9q21.33  | [CTSL](http://atlasgeneticsoncology.org/Genes/CTSL1ID40208ch9q21.html) |
| FLJ31163 (Alias) | 14q32.2  | [MEG3](http://atlasgeneticsoncology.org/Genes/MEG3ID44393ch14q32.html) |
| FLJ31664 (Alias) | 16q12.1  | [CYLD](http://atlasgeneticsoncology.org/Genes/CYLDID40232ch16q12.html) |
| FLJ31745 (Alias) | 7q22.1  | [CUX1](http://atlasgeneticsoncology.org/Genes/CUX1ID403ch7q22.html) |
| FLJ32318 (Alias) | 2p21  | [EML4](http://atlasgeneticsoncology.org/Genes/EML4ID44353ch2p21.html) |
| FLJ33325 (Alias) | 11q23.3  | [THY1](http://atlasgeneticsoncology.org/Genes/THY1ID45672ch11q23.html) |
| FLJ34666 (Alias) | 19q13.33  | [ATF5](http://atlasgeneticsoncology.org/Genes/ATF5ID50361ch19q13.html) |
| FLJ34863 (Alias) | 3p21.31  | [SEMA3B](http://atlasgeneticsoncology.org/Genes/SEMA3BID42252ch3p21.html) |
| FLJ35406 (Alias) | 3p21.1  | [BAP1](http://atlasgeneticsoncology.org/Genes/BAP1ID755ch3p21.html) |
| FLJ36302 (Alias) | 21q22.11  | [TIAM1](http://atlasgeneticsoncology.org/Genes/TIAM1ID42557ch21q22.html) |
| FLJ36569 (Alias) | 17q22  | [MSI2](http://atlasgeneticsoncology.org/Genes/MSI2ID42893ch17q23.html) |
| FLJ36745 (Alias) | 1p13.2  | [SLC16A1](http://atlasgeneticsoncology.org/Genes/SLC16A1ID44046ch1p13.html) |
| FLJ37180 (Alias) | 3p21.1  | [BAP1](http://atlasgeneticsoncology.org/Genes/BAP1ID755ch3p21.html) |
| FLJ37385 (Alias) | 13q13.1  | [STARD13](http://atlasgeneticsoncology.org/Genes/STARD13ID44051ch13q13.html) |
| FLJ37633 (Alias) | 18p11.31  | [EPB41L3](http://atlasgeneticsoncology.org/Genes/EPB41L3ID40458ch18p11.html) |
| FLJ37886 (Alias) | 17p13.2  | [MYBBP1A](http://atlasgeneticsoncology.org/Genes/MYBBP1AID41467ch17p13.html) |
| FLJ38135 (Alias) | 15q15.1  | [PLCB2](http://atlasgeneticsoncology.org/Genes/PLCB2ID41743ch15q15.html) |
| FLJ38511 (Alias) | 7p22.1  | [FSCN1](http://atlasgeneticsoncology.org/Genes/FSCN1ID44342ch7p22.html) |
| FLJ38568 (Alias) | Xq21.1  | [BRWD3](http://atlasgeneticsoncology.org/Genes/BRWD3ID42978chXq21.html) |
| FLJ38569 (Alias) | 6q13  | [CD109](http://atlasgeneticsoncology.org/Genes/CD109ID42925ch6q13.html) |
| FLJ39120 (Alias) | 17q21.1  | [GSDMA](http://atlasgeneticsoncology.org/Genes/GSDMAID45650ch17q21.html) |
| FLJ39786 (Alias) | 19p13.2  | [SMARCA4](http://atlasgeneticsoncology.org/Genes/SMARCA4ID42333ch19p13.html) |
| FLJ39787 (Alias) | 1p36.33  | [MIB2](http://atlasgeneticsoncology.org/Genes/MIB2ID44179ch1p36.html) |
| FLJ39827 (Alias) | Xq11.2  | [AMER1](http://atlasgeneticsoncology.org/Genes/FAM123BID44119chXq11.html) |
| FLJ40431 (Alias) | 1p13.3  | [VAV3](http://atlasgeneticsoncology.org/Genes/VAV3ID42782ch1p13.html) |
| FLJ40906 (Alias) | 1p34.3  | [RSPO1](http://atlasgeneticsoncology.org/Genes/RSPO1ID44137ch1p34.html) |
| FLJ41122 (Alias) | 9q21.32  | [HNRNPK](http://atlasgeneticsoncology.org/Genes/HNRNPKID44314ch9q21.html) |
| FLJ41744 (Alias) | 9q34.11  | [ENG](http://atlasgeneticsoncology.org/Genes/ENGID40452ch9q34.html) |
| FLJ41954 (Alias) | 21q22.3  | [TMPRSS2](http://atlasgeneticsoncology.org/Genes/TMPRSS2ID42592ch21q22.html) |
| FLJ41966 (Alias) | 6q13  | [CD109](http://atlasgeneticsoncology.org/Genes/CD109ID42925ch6q13.html) |
| FLJ42245 (Alias) | 6q13  | [SMAP1](http://atlasgeneticsoncology.org/Genes/SMAP1ID42974ch6q13.html) |
| FLJ42464 (Alias) | 1q32.1  | [ADIPOR1](http://atlasgeneticsoncology.org/Genes/ADIPOR1ID44512ch1q32.html) |
| FLJ42589 (Alias) | 14q32.2  | [MEG3](http://atlasgeneticsoncology.org/Genes/MEG3ID44393ch14q32.html) |
| FLJ42780 (Alias) | 5p15.2  | [TRIO](http://atlasgeneticsoncology.org/Genes/TRIOID43542ch5p15.html) |
| FLJ43117 (Alias) | 1q31.3  | [ASPM](http://atlasgeneticsoncology.org/Genes/ASPMID44463ch1q31.html) |
| FLJ44809 (Alias) | 1p36.22  | [MTOR](http://atlasgeneticsoncology.org/Genes/FRAP1ID40639ch1p36.html) |
| FLJ45059 (Alias) | 16q23.1  | [BCAR1](http://atlasgeneticsoncology.org/Genes/BCAR1ID761ch16q23.html) |
| FLJ45473 (Alias) | 3p14.3  | [FAM107A](http://atlasgeneticsoncology.org/Genes/FAM107AID42728ch3p14.html) |
| FLJ45758 (Alias) | 16p13.3  | [DNAJA3](http://atlasgeneticsoncology.org/Genes/DNAJA3ID40342ch16p13.html) |
| FLJ51761 (Alias) | 6p24.3  | [TFAP2A](http://atlasgeneticsoncology.org/Genes/TFAP2AID42526ch6p24.html) |
| FLJ53078 (Alias) | 17q22  | [SRSF1](http://atlasgeneticsoncology.org/Genes/SRSF1ID47631ch17q22.html) |
| FLJ58702 (Alias) | 15q22.31  | [KIAA0101](http://atlasgeneticsoncology.org/Genes/KIAA0101ID41058ch15q22.html) |
| FLJ77253 (Alias) | 21q11.2  | [NRIP1](http://atlasgeneticsoncology.org/Genes/NRIP1ID44067ch21q11.html) |
| FLJ78302 (Alias) | 3p21.31  | [CCR2](http://atlasgeneticsoncology.org/Genes/CCR2ID964ch3p21.html) |
| FLJ78684 (Alias) | 16q12.1  | [CYLD](http://atlasgeneticsoncology.org/Genes/CYLDID40232ch16q12.html) |
| FLJ90327 (Alias) | 2q23.3  | [RPRM](http://atlasgeneticsoncology.org/Genes/RPRMID42082ch2q23.html) |
| FLJ90335 (Alias) | 10q22.2  | [KAT6B](http://atlasgeneticsoncology.org/Genes/MYST4ID41488ch10q22.html) |
| FLJ90771 (Alias) | 11q12.1  | [APLNR](http://atlasgeneticsoncology.org/Genes/APLNRID44364ch11q12.html) |
| FLJ93447 (Alias) | 4q35.1  | [SORBS2](http://atlasgeneticsoncology.org/Genes/SORBS2ID693ch4q35.html) |
| FLJ94509 (Alias) | 1p22.1  | [GFI1](http://atlasgeneticsoncology.org/Genes/GFI1ID40706ch1p22.html) |
| FLJ98106 (Alias) | 5p13.1  | [LIFR](http://atlasgeneticsoncology.org/Genes/LIFRID410ch5p13.html) |
| FLJ99923 (Alias) | 5p13.1  | [LIFR](http://atlasgeneticsoncology.org/Genes/LIFRID410ch5p13.html) |
| FLK2 (Fetal liver kinase 2) (Alias) | 13q12.2  | [FLT3](http://atlasgeneticsoncology.org/Genes/FLT3ID144.html) |
| FLRG (Alias) | 19p13.3  | [FSTL3](http://atlasgeneticsoncology.org/Genes/FSTL3ID111ch19p13.html) |
| FLS353 (Alias) | 20q11.21  | [TPX2](http://atlasgeneticsoncology.org/Genes/TPX2ID42683ch20q11.html) |
| FLT2 (FMS-like tyrosine kinase 2) (Alias) | 8p11.23  | [FGFR1](http://atlasgeneticsoncology.org/Genes/FGFR1ID113.html) |
| [FLT3](http://atlasgeneticsoncology.org/Genes/FLT3ID144.html) | 13q12.2  | FLT3 (FMS-like tyrosine kinase 3) |
|  |  |  |
| FLU (Alias) | 3p21.31  | [ZMYND10](http://atlasgeneticsoncology.org/Genes/ZMYND10ID45815ch3p21.html) |
| FMLP (Alias) | 19q13.41  | [FPR1](http://atlasgeneticsoncology.org/Genes/FPR1ID44328ch19q13.html) |
| FMS (Alias) | 5q32  | [CSF1R](http://atlasgeneticsoncology.org/Genes/CSF1RID40161ch5q32.html) |
| [FNBP1](http://atlasgeneticsoncology.org/Genes/FBP17ID353.html) | 9q34.11  | FNBP1 (Formin Binding Protein 17) |
|  |  |  |
| [FNIP1](http://atlasgeneticsoncology.org/Genes/FNIP1ID44003ch5q23.html) | 5q31.1  | FNIP1 (folliculin interacting protein 1) |
|  |  |  |
| Folliculin (Alias) | 17p11.2  | [FLCN](http://atlasgeneticsoncology.org/Genes/FLCNID789ch17p11.html) |
| FOP (Alias) | 2q24.1  | [ACVR1](http://atlasgeneticsoncology.org/Genes/ACVR1ID564ch2q24.html) |
| FOP (Fibroblast Growth Factor Receptor 1 Oncogene Partner) (Alias) | 6q27  | [FGFR1OP](http://atlasgeneticsoncology.org/Genes/FOPID140.html) |
| FOR (Alias) | 16q23.1  | [WWOX](http://atlasgeneticsoncology.org/Genes/WWOXID508ch16q23.html) |
| [FOSL1](http://atlasgeneticsoncology.org/Genes/FOSL1ID40622ch11q13.html) | 11q13.1  | FOSL1 (FOS-like antigen 1) |
|  |  |  |
| [FOXA1](http://atlasgeneticsoncology.org/Genes/FOXA1ID44403ch14q21.html) | 14q21.1  | FOXA1 (forkhead box A1) |
|  |  |  |
| [FOXC1](http://atlasgeneticsoncology.org/Genes/FOXC1ID40624ch6p25.html) | 6p25.3  | FOXC1 (forkhead box C1) |
|  |  |  |
| [FOXE1](http://atlasgeneticsoncology.org/Genes/FOXE1ID47197ch9q22.html) | 9q22.33  | FOXE1 (forkhead box E1 (thyroid transcription factor 2)) |
|  |  |  |
| FOXE2 (Alias) | 9q22.33  | [FOXE1](http://atlasgeneticsoncology.org/Genes/FOXE1ID47197ch9q22.html) |
| [FOXF1](http://atlasgeneticsoncology.org/Genes/FOXF1ID40628ch16q24.html) | 16q24.1  | FOXF1 (forkhead box F1) |
|  |  |  |
| FOXM1B (Alias) | 12p13.33  | [FOXM1](http://atlasgeneticsoncology.org/Genes/FOXM1ID40631ch12p13.html) |
| [FOXM1](http://atlasgeneticsoncology.org/Genes/FOXM1ID40631ch12p13.html) | 12p13.33  | FOXM1 (forkhead box M1) |
|  |  |  |
| FOXO1A (Alias) | 13q14.11  | [FOXO1](http://atlasgeneticsoncology.org/Genes/FOXO1ID83ch13q14.html) |
| [FOXO1](http://atlasgeneticsoncology.org/Genes/FOXO1ID83ch13q14.html) | 13q14.11  | FOXO1 (Forkhead box O1) |
|  |  |  |
| [FOXO3](http://atlasgeneticsoncology.org/Genes/AF6q21ID125.html) | 6q21  | FOXO3 (forkhead box O3A) |
|  |  |  |
| FOXO4 (Alias) | Xq13.1  | [FOXO4](http://atlasgeneticsoncology.org/Genes/AFX1ID57.html) |
| [FOXO4](http://atlasgeneticsoncology.org/Genes/AFX1ID57.html) | Xq13.1  | FOXO4 (myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 7) |
|  |  |  |
| [FOXP1](http://atlasgeneticsoncology.org/Genes/FOXP1ID40632ch3p14.html) | 3p13  | FOXP1 (Forkhead box P1) |
|  |  |  |
| [FOXP3](http://atlasgeneticsoncology.org/Genes/FOXP3ID44129chXp11.html) | Xp11.23  | FOXP3 (forkhead box P3) |
|  |  |  |
| [FOXQ1](http://atlasgeneticsoncology.org/Genes/FOXQ1ID45906ch6p25.html) | 6p25.3  | FOXQ1 (forkhead box Q1) |
|  |  |  |
| FP504 (Alias) | 14q32.2  | [MEG3](http://atlasgeneticsoncology.org/Genes/MEG3ID44393ch14q32.html) |
| FPG1 (Alias) | 15q24.2  | [NEIL1](http://atlasgeneticsoncology.org/Genes/NEIL1ID41519ch15q24.html) |
| FPGH (Alias) | 8q12.3  | [GGH](http://atlasgeneticsoncology.org/Genes/GGHID44358ch8q12.html) |
| FPP (Alias) | 5q35.2  | [MSX2](http://atlasgeneticsoncology.org/Genes/MSX2ID41438ch5q35.html) |
| [FPR1](http://atlasgeneticsoncology.org/Genes/FPR1ID44328ch19q13.html) | 19q13.41  | FPR1 (formyl peptide receptor 1) |
|  |  |  |
| FPR (Alias) | 19q13.41  | [FPR1](http://atlasgeneticsoncology.org/Genes/FPR1ID44328ch19q13.html) |
| FR2BP (Alias) | 12p13.32  | [C12orf5](http://atlasgeneticsoncology.org/Genes/C12orf5ID50684ch12p13.html) |
| FRA1 (Alias) | 11q13.1  | [FOSL1](http://atlasgeneticsoncology.org/Genes/FOSL1ID40622ch11q13.html) |
| FRA (Alias) | 11q13.1  | [FOSL1](http://atlasgeneticsoncology.org/Genes/FOSL1ID40622ch11q13.html) |
| FR (Alias) | 17q21.31  | [SLC4A1](http://atlasgeneticsoncology.org/Genes/SLC4A1ID42325ch17q21.html) |
| FRAP1 (Alias) | 1p36.22  | [MTOR](http://atlasgeneticsoncology.org/Genes/FRAP1ID40639ch1p36.html) |
| FRAP2 (Alias) | 1p36.22  | [MTOR](http://atlasgeneticsoncology.org/Genes/FRAP1ID40639ch1p36.html) |
| FRAP (Alias) | 1p36.22  | [MTOR](http://atlasgeneticsoncology.org/Genes/FRAP1ID40639ch1p36.html) |
| FREAC1 (Alias) | 16q24.1  | [FOXF1](http://atlasgeneticsoncology.org/Genes/FOXF1ID40628ch16q24.html) |
| FREAC-3 (Alias) | 6p25.3  | [FOXC1](http://atlasgeneticsoncology.org/Genes/FOXC1ID40624ch6p25.html) |
| FREAC3 (Alias) | 6p25.3  | [FOXC1](http://atlasgeneticsoncology.org/Genes/FOXC1ID40624ch6p25.html) |
| FRE (Alias) | 2q32.1  | [FRZB](http://atlasgeneticsoncology.org/Genes/FRZBID44457ch2q32.html) |
| FRITZ (Alias) | 2q32.1  | [FRZB](http://atlasgeneticsoncology.org/Genes/FRZBID44457ch2q32.html) |
| FRNK (Alias) | 8q24.3  | [PTK2](http://atlasgeneticsoncology.org/Genes/PTK2ID41898ch8q24.html) |
| FRP1 (Alias) | 3q23  | [ATR](http://atlasgeneticsoncology.org/Genes/ATRID728ch3q23.html) |
| FRP-2 (Alias) | 4q31.3  | [SFRP2](http://atlasgeneticsoncology.org/Genes/SFRP2ID42952ch4q31.html) |
| FRP-3 (Alias) | 2q32.1  | [FRZB](http://atlasgeneticsoncology.org/Genes/FRZBID44457ch2q32.html) |
| FRP-4 (Alias) | 7p14.1  | [SFRP4](http://atlasgeneticsoncology.org/Genes/SFRP4ID42277ch7p14.html) |
| FRP (Alias) | 2q32.1  | [FRZB](http://atlasgeneticsoncology.org/Genes/FRZBID44457ch2q32.html) |
| FRPHE (Alias) | 7p14.1  | [SFRP4](http://atlasgeneticsoncology.org/Genes/SFRP4ID42277ch7p14.html) |
| [FRYL](http://atlasgeneticsoncology.org/Genes/AF4q12ID42970ch4p12.html) | 4p11  | FRYL (FRY-like) |
|  |  |  |
| FRZB-1 (Alias) | 2q32.1  | [FRZB](http://atlasgeneticsoncology.org/Genes/FRZBID44457ch2q32.html) |
| FRZB1 (Alias) | 2q32.1  | [FRZB](http://atlasgeneticsoncology.org/Genes/FRZBID44457ch2q32.html) |
| [FRZB](http://atlasgeneticsoncology.org/Genes/FRZBID44457ch2q32.html) | 2q32.1  | FRZB (frizzled-related protein) |
|  |  |  |
| FRZB-PEN (Alias) | 2q32.1  | [FRZB](http://atlasgeneticsoncology.org/Genes/FRZBID44457ch2q32.html) |
| FS (Alias) | 5q11.2  | [FST](http://atlasgeneticsoncology.org/Genes/FSTID44477ch5q11.html) |
| [FSCN1](http://atlasgeneticsoncology.org/Genes/FSCN1ID44342ch7p22.html) | 7p22.1  | FSCN1 (fascin homolog 1, actin-bundling protein (Strongylocentrotus purpuratus)) |
|  |  |  |
| FSGS1 (Alias) | 19q13.2  | [ACTN4](http://atlasgeneticsoncology.org/Genes/ACTN4ID562ch19q13.html) |
| FSGS (Alias) | 19q13.2  | [ACTN4](http://atlasgeneticsoncology.org/Genes/ACTN4ID562ch19q13.html) |
| FSP1 (Alias) | 1q21.3  | [S100A4](http://atlasgeneticsoncology.org/Genes/S100A4ID42192ch1q21.html) |
| FSRP (Alias) | 19p13.3  | [FSTL3](http://atlasgeneticsoncology.org/Genes/FSTL3ID111ch19p13.html) |
| [FST](http://atlasgeneticsoncology.org/Genes/FSTID44477ch5q11.html) | 5q11.2  | FST (follistatin) |
|  |  |  |
| [FSTL3](http://atlasgeneticsoncology.org/Genes/FSTL3ID111ch19p13.html) | 19p13.3  | FSTL3 (follistatin-like 3 (secreted glycoprotein)) |
|  |  |  |
| F-TCF (Alias) | 7q21.11  | [HGF](http://atlasgeneticsoncology.org/Genes/HGFID385ch7q21.html) |
| FTZ1 (Alias) | 9q33.3  | [NR5A1](http://atlasgeneticsoncology.org/Genes/NR5A1ID45858ch9q33.html) |
| FTZF1 (Alias) | 9q33.3  | [NR5A1](http://atlasgeneticsoncology.org/Genes/NR5A1ID45858ch9q33.html) |
| Fub1 (Alias) | 11q13.1  | [FAU](http://atlasgeneticsoncology.org/Genes/FAUID40538ch11q13.html) |
| Fubi (Alias) | 11q13.1  | [FAU](http://atlasgeneticsoncology.org/Genes/FAUID40538ch11q13.html) |
| [FUBP1](http://atlasgeneticsoncology.org/Genes/FUBP1ID50675ch1p31.html) | 1p31.1  | FUBP1 (far upstream element (FUSE) binding protein 1) |
|  |  |  |
| FUBP (Alias) | 1p31.1  | [FUBP1](http://atlasgeneticsoncology.org/Genes/FUBP1ID50675ch1p31.html) |
| FUR (Alias) | 15q26.1  | [FURIN](http://atlasgeneticsoncology.org/Genes/FURINID40646ch15q26.html) |
| [FURIN](http://atlasgeneticsoncology.org/Genes/FURINID40646ch15q26.html) | 15q26.1  | FURIN (furin (paired basic amino acid cleaving enzyme)) |
|  |  |  |
| FUS2 (Alias) | 3p21.31  | [HYAL1](http://atlasgeneticsoncology.org/Genes/HYAL1ID40903ch3p21.html) |
| [FUS](http://atlasgeneticsoncology.org/Genes/FUSID44.html) | 16p11.2  | FUS (fusion involved in t (12;16) in malignant liposarcoma) |
|  |  |  |
| [FUT8](http://atlasgeneticsoncology.org/Genes/FUT8ID40649ch14q23.html) | 14q23.3  | FUT8 (fucosyltransferase 8 (alpha (1,6) fucosyltransferase)) |
|  |  |  |
| Fwd1 (Alias) | 10q24.32  | [BTRC](http://atlasgeneticsoncology.org/Genes/BTRCID451ch10q24.html) |
| FWD1 (Alias) | 10q24.32  | [BTRC](http://atlasgeneticsoncology.org/Genes/BTRCID451ch10q24.html) |
| FXR (Alias) | 12q23.1  | [NR1H4](http://atlasgeneticsoncology.org/Genes/NR1H4ID46032ch12q23.html) |
| [FXYD3](http://atlasgeneticsoncology.org/Genes/FXYD3ID43704ch19q13.html) | 19q13.12  | FXYD3 (FXYD domain containing ion transport regulator 3) |
|  |  |  |
| [FXYD5](http://atlasgeneticsoncology.org/Genes/FXYD5ID40652ch19q13.html) | 19q13.12  | FXYD5 (FXYD domain containing ion transport regulator 5) |
|  |  |  |
| FZRB (Alias) | 2q32.1  | [FRZB](http://atlasgeneticsoncology.org/Genes/FRZBID44457ch2q32.html) |

|  |  |  |
| --- | --- | --- |
| G0S30 (Alias) | 5q31.2  | [EGR1](http://atlasgeneticsoncology.org/Genes/EGR1ID496ch5q31.html) |
| G0S8 (Alias) | 1q31.2  | [RGS2](http://atlasgeneticsoncology.org/Genes/RGS2ID42102ch1q31.html) |
| G15 (Alias) | 3p21.31  | [RBM5](http://atlasgeneticsoncology.org/Genes/RBM5ID42069ch3p21.html) |
| G17P1 (Alias) | 17q23.3  | [DDX5](http://atlasgeneticsoncology.org/Genes/DDX5ID40290ch17q23.html) |
| G22P1 (Alias) | 22q13.2  | [XRCC6](http://atlasgeneticsoncology.org/Genes/XRCC6ID246ch22q13.html) |
| G25K (Alias) | 1p36.12  | [CDC42](http://atlasgeneticsoncology.org/Genes/CDC42ID40012ch1p36.html) |
| G344 (Alias) | 11p13  | [CD59](http://atlasgeneticsoncology.org/Genes/CD59ID985ch11p13.html) |
| G6 (Alias) | 6p21.33  | [CLIC1](http://atlasgeneticsoncology.org/Genes/CLIC1ID50543ch6p21.html) |
| G9A (Alias) | 6p21.33  | [EHMT2](http://atlasgeneticsoncology.org/Genes/EHMT2ID51148ch6p21.html) |
| GA11 (Alias) | 19p13.3  | [GNA11](http://atlasgeneticsoncology.org/Genes/GNA11ID43272ch19p13.html) |
| Ga55 (Alias) | 8p11.22  | [TACC1](http://atlasgeneticsoncology.org/Genes/TACC1ID42456ch8p11.html) |
| GA733-2 (Alias) | 2p21  | [EPCAM](http://atlasgeneticsoncology.org/Genes/TACSTD1ID42459ch2p21.html) |
| GAAD (Alias) | 17q21.33  | [NME1](http://atlasgeneticsoncology.org/Genes/NME1ID445ch17q21.html) |
| [GAB2](http://atlasgeneticsoncology.org/Genes/GAB2ID40664ch11q14.html) | 11q14.1  | GAB2 (GRB2-associated binding protein 2) |
|  |  |  |
| GABBR1 (Alias) | 6p22.1  | [UBD](http://atlasgeneticsoncology.org/Genes/UBDID43742ch6p22.html) |
| GADD153 (Growth arrest and DNA damage inducible gene 153) (Alias) | 12q13.3  | [DDIT3](http://atlasgeneticsoncology.org/Genes/DDIT3ID80.html) |
| [GADD45A](http://atlasgeneticsoncology.org/Genes/GADD45AID339ch1p31.html) | 1p31.3  | GADD45A (growth arrest and DNA-damage-inducible, alpha) |
|  |  |  |
| GADD45 (Alias) | 1p31.3  | [GADD45A](http://atlasgeneticsoncology.org/Genes/GADD45AID339ch1p31.html) |
| [GADD45GIP1](http://atlasgeneticsoncology.org/Genes/GADD45GIP1ID40668ch19p13.html) | 19p13.2  | GADD45GIP1 (growth arrest and DNA-damage-inducible, gamma interacting protein 1) |
|  |  |  |
| GAL3 (Alias) | 14q22.3  | [LGALS3](http://atlasgeneticsoncology.org/Genes/LGALS3ID44396ch14q22.html) |
| GALBP (Alias) | 14q22.3  | [LGALS3](http://atlasgeneticsoncology.org/Genes/LGALS3ID44396ch14q22.html) |
| GALIG (Alias) | 14q22.3  | [LGALS3](http://atlasgeneticsoncology.org/Genes/LGALS3ID44396ch14q22.html) |
| GalNAcT6 (Alias) | 12q13.13  | [GALNT6](http://atlasgeneticsoncology.org/Genes/GALNT6ID50683ch12q13.html) |
| GALNAC-T6 (Alias) | 12q13.13  | [GALNT6](http://atlasgeneticsoncology.org/Genes/GALNT6ID50683ch12q13.html) |
| [GALNT6](http://atlasgeneticsoncology.org/Genes/GALNT6ID50683ch12q13.html) | 12q13.13  | GALNT6 (UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 6 (GalNAc-T6)) |
|  |  |  |
| G-ALPHA-h (Alias) | 20q11.23  | [TGM2](http://atlasgeneticsoncology.org/Genes/TGM2ID44078ch20q11.html) |
| G-ALPHA-q (Alias) | 9q21.2  | [GNAQ](http://atlasgeneticsoncology.org/Genes/GNAQID43280ch9q21.html) |
| GAOB1 (Alias) | 17q23.2  | [BCAS3](http://atlasgeneticsoncology.org/Genes/BCAS3ID766.html) |
| GAQ (Alias) | 9q21.2  | [GNAQ](http://atlasgeneticsoncology.org/Genes/GNAQID43280ch9q21.html) |
| [GAS5](http://atlasgeneticsoncology.org/Genes/GAS5ID50217ch1q25.html) | 1q25.1  | GAS5 (growth arrest-specific 5 (non-protein coding)) |
|  |  |  |
| [GAS7](http://atlasgeneticsoncology.org/Genes/GAS7ID257.html) | 17p13.1  | GAS7 (growth arrest-specific 7) |
|  |  |  |
| GAS (Alias) | 17q21.2  | [GAST](http://atlasgeneticsoncology.org/Genes/GASTID44214ch17q21.html) |
| GASC1 (Gene amplified in squamous cell carcinoma 1) (Alias) | 9p24.1  | [KDM4C](http://atlasgeneticsoncology.org/Genes/GASC1ID432.html) |
| [GAST](http://atlasgeneticsoncology.org/Genes/GASTID44214ch17q21.html) | 17q21.2  | GAST (gastrin) |
|  |  |  |
| GAT8 (Alias) | 6p21.33  | [EHMT2](http://atlasgeneticsoncology.org/Genes/EHMT2ID51148ch6p21.html) |
| [GATA1](http://atlasgeneticsoncology.org/Genes/GATA1ID40689chXp11.html) | Xp11.23  | GATA1 (GATA binding protein 1 (globin transcription factor1)) |
|  |  |  |
| [GATA2](http://atlasgeneticsoncology.org/Genes/GATA2ID44160ch3q21.html) | 3q21.3  | GATA2 (GATA binding protein 2) |
|  |  |  |
| GATA 3 binding protein (Alias) | 1p36.21  | [PRDM2](http://atlasgeneticsoncology.org/Genes/PRDM2ID41834ch1p36.html) |
| [GATA3](http://atlasgeneticsoncology.org/Genes/GATA3ID107ch10p14.html) | 10p14  | GATA3 (GATA binding protein 3) |
|  |  |  |
| GATA-6 (Alias) | 18q11.2  | [GATA6](http://atlasgeneticsoncology.org/Genes/GATA6ID40690ch18q11.html) |
| [GATA6](http://atlasgeneticsoncology.org/Genes/GATA6ID40690ch18q11.html) | 18q11.2  | GATA6 (GATA binding protein 6) |
|  |  |  |
| GBF (Alias) | 10p15.1  | [KLF6](http://atlasgeneticsoncology.org/Genes/KLF6ID44002ch10p15.html) |
| GBP-1 (Alias) | 1p22.2  | [GBP1](http://atlasgeneticsoncology.org/Genes/GBP1ID50147ch1p22.html) |
| [GBP1](http://atlasgeneticsoncology.org/Genes/GBP1ID50147ch1p22.html) | 1p22.2  | GBP1 (guanylate binding protein 1, interferon-inducible, 67kDa) |
|  |  |  |
| GBP (Alias) | 15q23  | [PIAS1](http://atlasgeneticsoncology.org/Genes/PIAS1ID45688ch15q23.html) |
| GC1 (Alias) | 13q14.3  | [OLFM4](http://atlasgeneticsoncology.org/Genes/OLFM4ID49730ch13q14.html) |
| GC4 (Alias) | 8q24.22  | [NDRG1](http://atlasgeneticsoncology.org/Genes/NDRG1ID41512ch8q24.html) |
| GC-C (Alias) | 12p12.3  | [GUCY2C](http://atlasgeneticsoncology.org/Genes/GUCY2CID43303ch12p13.html) |
| [GCNT3](http://atlasgeneticsoncology.org/Genes/GCNT3ID44105ch15q21.html) | 15q22.2  | GCNT3 (glucosaminyl (N-acetyl) transferase 3, mucin type) |
|  |  |  |
| GdA (Alias) | 9q34.3  | [PAEP](http://atlasgeneticsoncology.org/Genes/PAEPID46067ch9q34.html) |
| GD (Alias) | 9q34.3  | [PAEP](http://atlasgeneticsoncology.org/Genes/PAEPID46067ch9q34.html) |
| GD:C20orf1 (Alias) | 20q11.21  | [TPX2](http://atlasgeneticsoncology.org/Genes/TPX2ID42683ch20q11.html) |
| [GDF15](http://atlasgeneticsoncology.org/Genes/GDF15ID40701ch19p13.html) | 19p13.11  | GDF15 (growth differentiation factor 15) |
|  |  |  |
| GdF (Alias) | 9q34.3  | [PAEP](http://atlasgeneticsoncology.org/Genes/PAEPID46067ch9q34.html) |
| GdS (Alias) | 9q34.3  | [PAEP](http://atlasgeneticsoncology.org/Genes/PAEPID46067ch9q34.html) |
| GEF (Alias) | 1q22  | [ARHGEF2](http://atlasgeneticsoncology.org/Genes/ARHGEF2ID43150ch1q22.html) |
| GEF-H1 (Alias) | 1q22  | [ARHGEF2](http://atlasgeneticsoncology.org/Genes/ARHGEF2ID43150ch1q22.html) |
| GEFH1 (Alias) | 1q22  | [ARHGEF2](http://atlasgeneticsoncology.org/Genes/ARHGEF2ID43150ch1q22.html) |
| GELB (Gelatinase B) (Alias) | 20q13.12  | [MMP9](http://atlasgeneticsoncology.org/Genes/MMP9ID41408ch20q11.html) |
| GENE-33 (Alias) | 1p36.23  | [ERRFI1](http://atlasgeneticsoncology.org/Genes/ERRFI1ID44147ch1p36.html) |
| GEP (Alias) | 17q21.31  | [GRN](http://atlasgeneticsoncology.org/Genes/GRNID40757ch17q21.html) |
| GF1 (Alias) | Xp11.23  | [GATA1](http://atlasgeneticsoncology.org/Genes/GATA1ID40689chXp11.html) |
| GFI-1 (Alias) | 1p22.1  | [GFI1](http://atlasgeneticsoncology.org/Genes/GFI1ID40706ch1p22.html) |
| [GFI1B](http://atlasgeneticsoncology.org/Genes/GFI1BID40707ch9q34.html) | 9q34.13  | GFI1B (growth factor independent 1B transcription repressor) |
|  |  |  |
| [GFI1](http://atlasgeneticsoncology.org/Genes/GFI1ID40706ch1p22.html) | 1p22.1  | GFI1 (growth factor independent 1 transcription repressor) |
|  |  |  |
| GFRP1 (Alias) | 12q13.13  | [NR4A1](http://atlasgeneticsoncology.org/Genes/NR4A1ID41573ch12q13.html) |
| GGAP2 (Alias) | 12q14.1  | [AGAP2](http://atlasgeneticsoncology.org/Genes/CENTG1ID44037ch12q14.html) |
| [GGH](http://atlasgeneticsoncology.org/Genes/GGHID44358ch8q12.html) | 8q12.3  | GGH (gamma-glutamyl hydrolase (conjugase, folylpolygammaglutamyl hydrolase) |
|  |  |  |
| GH (Alias) | 8q12.3  | [GGH](http://atlasgeneticsoncology.org/Genes/GGHID44358ch8q12.html) |
| GHAP (Alias) | 5q14.2  | [VCAN](http://atlasgeneticsoncology.org/Genes/VCANID40173ch5q14.html) |
| GHF-1 (Alias) | 3p11.2  | [POU1F1](http://atlasgeneticsoncology.org/Genes/POU1F1ID46362ch3p11.html) |
| [GHRL](http://atlasgeneticsoncology.org/Genes/GhrelinID327.html) | 3p25.3  | GHRL (ghrelin/obestatin prepropeptide) |
|  |  |  |
| Gicerin (Alias) | 11q23.3  | [MCAM](http://atlasgeneticsoncology.org/Genes/MCAMID41314ch11q23.html) |
| GIF (Alias) | 22q11.23  | [MIF](http://atlasgeneticsoncology.org/Genes/MIFID41365ch22q11.html) |
| GIG1 (Alias) | 1p22.3  | [CYR61](http://atlasgeneticsoncology.org/Genes/CYR61ID40256ch1p22.html) |
| GIG2 (Alias) | 12p13.31  | [CD9](http://atlasgeneticsoncology.org/Genes/CD9ID995ch12p13.html) |
| GIG8 (Alias) | 2p25.1  | [ID2](http://atlasgeneticsoncology.org/Genes/ID2ID436ch2p25.html) |
| GITRL (Alias) | 1q25.1  | [TNFSF18](http://atlasgeneticsoncology.org/Genes/TNFSF18ID42639ch1q25.html) |
| GKLF (Alias) | 9q31.2  | [KLF4](http://atlasgeneticsoncology.org/Genes/KLF4ID44316ch9q31.html) |
| GL002 (Alias) | 11q13.5  | [C11orf30](http://atlasgeneticsoncology.org/Genes/C11ORF30ID173.html) |
| GLBA (Alias) | 10q22.1  | [PSAP](http://atlasgeneticsoncology.org/Genes/PSAPID42980ch10q22.html) |
| [GLI1](http://atlasgeneticsoncology.org/Genes/GLIID310ch12q13.html) | 12q13.3  | GLI1 (glioma-associated oncogene homolog 1) |
|  |  |  |
| [GLI2](http://atlasgeneticsoncology.org/Genes/GLI2ID40718ch2q14.html) | 2q14.2  | GLI2 (GLI family zinc finger 2) |
|  |  |  |
| GLI (Alias) | 12q13.3  | [GLI1](http://atlasgeneticsoncology.org/Genes/GLIID310ch12q13.html) |
| GLIF (Alias) | 22q11.23  | [MIF](http://atlasgeneticsoncology.org/Genes/MIFID41365ch22q11.html) |
| GLIO703 (Alias) | 5q31.3  | [FGF1](http://atlasgeneticsoncology.org/Genes/FGF1ID40549ch5q31.html) |
| Glioma associated extracellular matrix antigen (Alias) | 9q33.1  | [TNC](http://atlasgeneticsoncology.org/Genes/TNCID42597ch9q33.html) |
| Glioma-associated oncogene homolog 1 (Alias) | 12q13.3  | [GLI1](http://atlasgeneticsoncology.org/Genes/GLIID310ch12q13.html) |
| [GLIS2](http://atlasgeneticsoncology.org/Genes/GLIS2ID44598ch16p13.html) | 16p13.3  | GLIS2 (GLIS family zinc finger 2) |
|  |  |  |
| GLM3 (Alias) | 13q13.1  | [BRCA2](http://atlasgeneticsoncology.org/Genes/BRCA2ID164ch13q13.html) |
| GLMN (Alias) | 1p22.1  | [GLMN](http://atlasgeneticsoncology.org/Genes/GLMNID43022ch1p22.html) |
| [GLMN](http://atlasgeneticsoncology.org/Genes/GLMNID43022ch1p22.html) | 1p22.1  | GLMN (Glomulin) |
|  |  |  |
| [GLTSCR2](http://atlasgeneticsoncology.org/Genes/GLTSCR2ID40723ch19q13.html) | 19q13.33  | GLTSCR2 (glioma tumor suppressor candidate region gene 2) |
|  |  |  |
| GLY96 (Alias) | 6p21.33  | [IER3](http://atlasgeneticsoncology.org/Genes/IER3ID40919ch6p21.html) |
| Glycogen synthase kinase 3 beta-interacting protein (Alias) | 14q22.1  | [NIN](http://atlasgeneticsoncology.org/Genes/NINID176.html) |
| Glypican-3 (GPC3) (Alias) | Xq26.2  | [GPC3](http://atlasgeneticsoncology.org/Genes/GPC3ID156.html) |
| GMEM (Alias) | 9q33.1  | [TNC](http://atlasgeneticsoncology.org/Genes/TNCID42597ch9q33.html) |
| [GMPS](http://atlasgeneticsoncology.org/Genes/GMPSID229.html) | 3q25.31  | GMPS (guanine monphosphate synthetase) |
|  |  |  |
| GMPS-PEN (Alias) | 3q25.31  | [GMPS](http://atlasgeneticsoncology.org/Genes/GMPSID229.html) |
| GNA-11 (Alias) | 19p13.3  | [GNA11](http://atlasgeneticsoncology.org/Genes/GNA11ID43272ch19p13.html) |
| [GNA11](http://atlasgeneticsoncology.org/Genes/GNA11ID43272ch19p13.html) | 19p13.3  | GNA11 (guanine nucleotide binding protein (G protein), alpha 11 (Gq class)) |
|  |  |  |
| GNAH (Alias) | 20q11.23  | [TGM2](http://atlasgeneticsoncology.org/Genes/TGM2ID44078ch20q11.html) |
| [GNAQ](http://atlasgeneticsoncology.org/Genes/GNAQID43280ch9q21.html) | 9q21.2  | GNAQ (guanine nucleotide binding protein (G protein), q polypeptide) |
|  |  |  |
| GNAS1 (Alias) | 20q13.32  | [GNAS](http://atlasgeneticsoncology.org/Genes/GNASID40727ch20q13.html) |
| [GNAS](http://atlasgeneticsoncology.org/Genes/GNASID40727ch20q13.html) | 20q13.32  | GNAS (GNAS complex locus) |
|  |  |  |
| [GNB2L1](http://atlasgeneticsoncology.org/Genes/GNB2L1ID43285ch5q35.html) | 5q35.3  | GNB2L1 (guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1) |
|  |  |  |
| Gnb2-rs1 (Alias) | 5q35.3  | [GNB2L1](http://atlasgeneticsoncology.org/Genes/GNB2L1ID43285ch5q35.html) |
| GNRP (Alias) | 15q25.1  | [RASGRF1](http://atlasgeneticsoncology.org/Genes/RASGRF1ID43453ch15q25.html) |
| GnT-M (Alias) | 15q22.2  | [GCNT3](http://atlasgeneticsoncology.org/Genes/GCNT3ID44105ch15q21.html) |
| GOLIM6 (Alias) | 7q22.1  | [CUX1](http://atlasgeneticsoncology.org/Genes/CUX1ID403ch7q22.html) |
| GP11 (Alias) | 1q21.3  | [S100A10](http://atlasgeneticsoncology.org/Genes/S100A10ID44145ch1q21.html) |
| GP145-TrkB (Alias) | 9q21.33  | [NTRK2](http://atlasgeneticsoncology.org/Genes/NTRK2ID41589ch9q21.html) |
| GP (150-225) (Alias) | 9q33.1  | [TNC](http://atlasgeneticsoncology.org/Genes/TNCID42597ch9q33.html) |
| GP27 (Alias) | 11p15.5  | [CD151](http://atlasgeneticsoncology.org/Genes/CD151ID967ch11p15.html) |
| GP78 (Alias) | 16q12.2  | [AMFR](http://atlasgeneticsoncology.org/Genes/AMFRID627ch16q12.html) |
| GP88 (Alias) | 17q21.31  | [GRN](http://atlasgeneticsoncology.org/Genes/GRNID40757ch17q21.html) |
| [GPA33](http://atlasgeneticsoncology.org/Genes/GPA33ID40735ch1q23.html) | 1q24.1  | GPA33 (glycoprotein A33 (transmembrane)) |
|  |  |  |
| [GPC1](http://atlasgeneticsoncology.org/Genes/GPC1ID44301ch2q37.html) | 2q37.3  | GPC1 (glypican 1) |
|  |  |  |
| [GPC3](http://atlasgeneticsoncology.org/Genes/GPC3ID156.html) | Xq26.2  | GPC3 (glypican 3) |
|  |  |  |
| [GPC5](http://atlasgeneticsoncology.org/Genes/GPC5ID45705ch13q31.html) | 13q31.3  | GPC5 (glypican 5) |
|  |  |  |
| GPCR5A (Alias) | 12p13.1  | [GPRC5A](http://atlasgeneticsoncology.org/Genes/GPRC5AID43793ch12p13.html) |
| GPCR-Br (Alias) | 7p22.3  | [GPER1](http://atlasgeneticsoncology.org/Genes/GPERID44344ch7p22.html) |
| [GPER1](http://atlasgeneticsoncology.org/Genes/GPERID44344ch7p22.html) | 7p22.3  | GPER1 (G protein-coupled estrogen receptor 1) |
|  |  |  |
| GPER (Alias) | 7p22.3  | [GPER1](http://atlasgeneticsoncology.org/Genes/GPERID44344ch7p22.html) |
| [GPHN](http://atlasgeneticsoncology.org/Genes/GPHNID317.html) | 14q23.3  | GPHN (Gephyrin) |
|  |  |  |
| GPHRYN (Alias) | 14q23.3  | [GPHN](http://atlasgeneticsoncology.org/Genes/GPHNID317.html) |
| [GPNMB](http://atlasgeneticsoncology.org/Genes/GPNMBID40739ch7p15.html) | 7p15.3  | GPNMB (glycoprotein (transmembrane) nmb) |
|  |  |  |
| GPR12A (Alias) | 14q32.11  | [GPR68](http://atlasgeneticsoncology.org/Genes/GPR68ID40745ch14q32.html) |
| GPR26 (Alias) | 9q31.3  | [LPAR1](http://atlasgeneticsoncology.org/Genes/LPAR1ID40405ch9q31.html) |
| GPR28 (Alias) | 3p21.31  | [CCR9](http://atlasgeneticsoncology.org/Genes/CCR9ID44380ch3p21.html) |
| GPR30 (Alias) | 7p22.3  | [GPER1](http://atlasgeneticsoncology.org/Genes/GPERID44344ch7p22.html) |
| [GPR68](http://atlasgeneticsoncology.org/Genes/GPR68ID40745ch14q32.html) | 14q32.11  | GPR68 (G protein-coupled receptor 68) |
|  |  |  |
| GPR-9-6 (Alias) | 3p21.31  | [CCR9](http://atlasgeneticsoncology.org/Genes/CCR9ID44380ch3p21.html) |
| GPR9 (Alias) | Xq13.1  | [CXCR3](http://atlasgeneticsoncology.org/Genes/CXCR3ID40224chXq13.html) |
| GPRC1A (Alias) | 6q24.3  | [GRM1](http://atlasgeneticsoncology.org/Genes/GRM1ID43851ch6q24.html) |
| GPRC2A (Alias) | 3q21.1  | [CASR](http://atlasgeneticsoncology.org/Genes/CASRID43977ch3q21.html) |
| [GPRC5A](http://atlasgeneticsoncology.org/Genes/GPRC5AID43793ch12p13.html) | 12p13.1  | GPRC5A (G protein-coupled receptor, family C, group 5, member A) |
|  |  |  |
| GPRN159 (Alias) | 2q37.3  | [ACKR3](http://atlasgeneticsoncology.org/Genes/CMKOR1ID40108ch2q37.html) |
| G protein-coupled receptor (Alias) | 2q37.3  | [ACKR3](http://atlasgeneticsoncology.org/Genes/CMKOR1ID40108ch2q37.html) |
| G protein-coupled receptor RDC1 homolog (Alias) | 2q37.3  | [ACKR3](http://atlasgeneticsoncology.org/Genes/CMKOR1ID40108ch2q37.html) |
| GPSA (Alias) | 20q13.32  | [GNAS](http://atlasgeneticsoncology.org/Genes/GNASID40727ch20q13.html) |
| [GPX1](http://atlasgeneticsoncology.org/Genes/GPX1ID40747ch3p21.html) | 3p21.31  | GPX1 (Glutathione Peroxidase 1) |
|  |  |  |
| GPXD (Alias) | 3p21.31  | [GPX1](http://atlasgeneticsoncology.org/Genes/GPX1ID40747ch3p21.html) |
| GR15 (Alias) | 11p11.2  | [CD82](http://atlasgeneticsoncology.org/Genes/CD82ID41045ch11p11.html) |
| GR3 (Alias) | 9q22.2  | [SEMA4D](http://atlasgeneticsoncology.org/Genes/SEMA4DID42255ch9q22.html) |
| GRAF-1EF (Alias) | 6q13  | [EEF1A1](http://atlasgeneticsoncology.org/Genes/EEF1A1ID40407ch6q13.html) |
| GRAF (GTPase activating protein for Rho associated with FAK) (Alias) | 5q31.3  | [ARHGAP26](http://atlasgeneticsoncology.org/Genes/GRAFID291.html) |
| Gravin (Alias) | 6q25.1  | [AKAP12](http://atlasgeneticsoncology.org/Genes/AKAP12ID607ch6q25.html) |
| [GRB10](http://atlasgeneticsoncology.org/Genes/GRB10ID278.html) | 7p12.1  | GRB10 (growth factor receptor-bound protein 10) |
|  |  |  |
| GRB1 (Alias) | 5q13.1  | [PIK3R1](http://atlasgeneticsoncology.org/Genes/PIK3R1ID41717ch5q13.html) |
| [GRB2](http://atlasgeneticsoncology.org/Genes/GRB2ID386ch17q25.html) | 17q25.1  | GRB2 (Growth factor receptor-bound protein 2) |
|  |  |  |
| Grb3-3 (Alias) | 17q25.1  | [GRB2](http://atlasgeneticsoncology.org/Genes/GRB2ID386ch17q25.html) |
| Grb-IR (Alias) | 7p12.1  | [GRB10](http://atlasgeneticsoncology.org/Genes/GRB10ID278.html) |
| [GREB1](http://atlasgeneticsoncology.org/Genes/GREB1ID40751ch2p25.html) | 2p25.1  | GREB1 (growth regulation by estrogen in breast cancer 1) |
|  |  |  |
| GRF1 (Alias) | 15q25.1  | [RASGRF1](http://atlasgeneticsoncology.org/Genes/RASGRF1ID43453ch15q25.html) |
| GRF2 (Alias) | 9q34.13  | [RAPGEF1](http://atlasgeneticsoncology.org/Genes/RAPGEF1ID42045ch9q34.html) |
| GRF55 (Alias) | 15q25.1  | [RASGRF1](http://atlasgeneticsoncology.org/Genes/RASGRF1ID43453ch15q25.html) |
| [GRM1](http://atlasgeneticsoncology.org/Genes/GRM1ID43851ch6q24.html) | 6q24.3  | GRM1 (glutamate receptor, metabotropic 1) |
|  |  |  |
| [GRN](http://atlasgeneticsoncology.org/Genes/GRNID40757ch17q21.html) | 17q21.31  | GRN (Granulin) |
|  |  |  |
| GROEL (Alias) | 2q33.1  | [HSPD1](http://atlasgeneticsoncology.org/Genes/HSPD1ID40888ch2q33.html) |
| GRP78 (Alias) | 9q33.3  | [HSPA5](http://atlasgeneticsoncology.org/Genes/HSPA5ID40876ch9q33.html) |
| [GRPR](http://atlasgeneticsoncology.org/Genes/GRPRID40759chXp22.html) | Xp22.2  | GRPR (Gastrin-Releasing Peptide Receptor) |
|  |  |  |
| GRTH (Alias) | 11q24.2  | [DDX25](http://atlasgeneticsoncology.org/Genes/DDX25ID46826ch11q24.html) |
| GRTH (Alias) | 3p24.2  | [THRB](http://atlasgeneticsoncology.org/Genes/THRBID42554ch3p24.html) |
| GSA (Alias) | 20q13.32  | [GNAS](http://atlasgeneticsoncology.org/Genes/GNASID40727ch20q13.html) |
| GSDM1 (Alias) | 17q21.1  | [GSDMA](http://atlasgeneticsoncology.org/Genes/GSDMAID45650ch17q21.html) |
| [GSDMA](http://atlasgeneticsoncology.org/Genes/GSDMAID45650ch17q21.html) | 17q21.1  | GSDMA (gasdermin A) |
|  |  |  |
| GSDM (Alias) | 17q21.1  | [GSDMA](http://atlasgeneticsoncology.org/Genes/GSDMAID45650ch17q21.html) |
| [GSDMB](http://atlasgeneticsoncology.org/Genes/GSDMBID43972ch17q12.html) | 17q12  | GSDMB (gasdermin B) |
|  |  |  |
| GSDML (Alias) | 17q12  | [GSDMB](http://atlasgeneticsoncology.org/Genes/GSDMBID43972ch17q12.html) |
| GSF (Alias) | 13q12.2  | [PDX1](http://atlasgeneticsoncology.org/Genes/PDX1ID43921ch13q12.html) |
| GSHPX1 (Alias) | 3p21.31  | [GPX1](http://atlasgeneticsoncology.org/Genes/GPX1ID40747ch3p21.html) |
| [GSK3B](http://atlasgeneticsoncology.org/Genes/GSK3BID40761ch3q13.html) | 3q13.33  | GSK3B (glycogen synthase kinase 3 beta) |
|  |  |  |
| GSK3B-interacting protein (Alias) | 14q22.1  | [NIN](http://atlasgeneticsoncology.org/Genes/NINID176.html) |
| Gsp1 (Alias) | 12q24.33  | [RAN](http://atlasgeneticsoncology.org/Genes/RANID4203912q24.html) |
| GSP (Alias) | 20q13.32  | [GNAS](http://atlasgeneticsoncology.org/Genes/GNASID40727ch20q13.html) |
| GST2 (Alias) | 6p12.2  | [GSTA1](http://atlasgeneticsoncology.org/Genes/GSTA1ID40764ch6p12.html) |
| GSTA1-1 (Alias) | 6p12.2  | [GSTA1](http://atlasgeneticsoncology.org/Genes/GSTA1ID40764ch6p12.html) |
| [GSTA1](http://atlasgeneticsoncology.org/Genes/GSTA1ID40764ch6p12.html) | 6p12.2  | GSTA1 (glutathione S-transferase alpha 1) |
|  |  |  |
| GT650 (Alias) | 13q13.1  | [STARD13](http://atlasgeneticsoncology.org/Genes/STARD13ID44051ch13q13.html) |
| GTBP (Alias) | 2p16.3  | [MSH6](http://atlasgeneticsoncology.org/Genes/MSH6ID344ch2p16.html) |
| GTD (Alias) | Xp21.2  | [NR0B1](http://atlasgeneticsoncology.org/Genes/NR0B1ID44131chXp21.html) |
| GTH1 (Alias) | 6p12.2  | [GSTA1](http://atlasgeneticsoncology.org/Genes/GSTA1ID40764ch6p12.html) |
| GTL2 (Alias) | 14q32.2  | [MEG3](http://atlasgeneticsoncology.org/Genes/MEG3ID44393ch14q32.html) |
| GTP-GDP dissociation stimulator 1 (Alias) | 4q23  | [RAP1GDS1](http://atlasgeneticsoncology.org/Genes/RAP1GDS1ID400.html) |
| GTR2-2 (Alias) | Xq26.2  | [GPC3](http://atlasgeneticsoncology.org/Genes/GPC3ID156.html) |
| GUC2C (Alias) | 12p12.3  | [GUCY2C](http://atlasgeneticsoncology.org/Genes/GUCY2CID43303ch12p13.html) |
| [GUCY2C](http://atlasgeneticsoncology.org/Genes/GUCY2CID43303ch12p13.html) | 12p12.3  | GUCY2C (guanylate cyclase 2C (heat stable enterotoxin receptor)) |
|  |  |  |
| GU/RH-II (Alias) | 15q23  | [PIAS1](http://atlasgeneticsoncology.org/Genes/PIAS1ID45688ch15q23.html) |
| GW112 (Alias) | 13q14.3  | [OLFM4](http://atlasgeneticsoncology.org/Genes/OLFM4ID49730ch13q14.html) |
| Gx (Alias) | 22q13.1  | [RAC2](http://atlasgeneticsoncology.org/Genes/RAC2ID42021ch22q13.html) |
| GX (Alias) | 22q13.1  | [RAC2](http://atlasgeneticsoncology.org/Genes/RAC2ID42021ch22q13.html) |
| [GZMA](http://atlasgeneticsoncology.org/Genes/GZMAID51130ch5q11.html) | 5q11.2  | GZMA (granzyme A (granzyme 1, cytotoxic T-lymphocyte-associated serine esterase 3)) |

**References**

## Atlas of Genetics and Cytogenetics in Oncology and Haematology. Genes in cancer. http://atlasgeneticsoncology.org/Indexbyalpha/idxa\_E.html. 2015.

## HGNC. HUGO Gene Nomenclature Committee. http://www.genenames.org. 2015.

## Ma H, Ma M. Stem Cell Introduction. *Stem Cell* 2014;5(2):1-10.

1. National Center for Biotechnology Information, U.S. National Library of Medicine**.** http://www.ncbi.nlm.nih.gov/pubmed. 2014.
2. Wikipedia. The free encyclopedia. http://en.wikipedia.org. 2014.

6/25/2020