



## Cancer Gene List - II

Mark Herbert

World Development Institute  
 39-06 Main Street, Flushing, Queens, New York 11354, USA, [ma708090@gmail.com](mailto:ma708090@gmail.com)

**Abstract:** There are thousands of genes that are related to the cancer development. This article gives the genes that are supposed as cancer genes. This is cancer gene list part 2.

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**Key words:** cancer; gene; DNA; 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
D0S117E (Alias)	5q35.3	<a href="#">DBN1</a>
D10S170 (Alias)	10q21.2	<a href="#">CCDC6</a>
D11S812E (Alias)	11p13	<a href="#">PAX6</a>
D12S2489E (Alias)	12p13.2	<a href="#">KLRK1</a>
D14Ert420e (Alias)	3p21.1	<a href="#">PRKCD</a>
D2 (Alias)	14q31.1	<a href="#">DIO2</a>
D3F15S2 (Alias)	3p21.31	<a href="#">MST1</a>
D40 (Alias)	15q15.1	<a href="#">CASC5</a>
D52 (Alias)	8q21.13	<a href="#">TPD52</a>
D9S46E (Alias)	9q34.13	<a href="#">NUP214</a>
DAB-2 (Alias)	5p13.1	<a href="#">DAP2IP</a>
<a href="#">DAB2</a>	5p13.1	DAP2IP (disabled homolog 2, mitogen-responsive phosphoprotein (Drosophila))
<a href="#">DAB2IP</a>	9q33.2	DAB2IP (DAB2 interacting protein)
DACAR (Alias)	19q13.33	<a href="#">CARD8</a>

DAGK1 (Alias)	12q13.2	<a href="#">DGKA</a>
DAGK (Alias)	12q13.2	<a href="#">DGKA</a>
DAL-1 (Alias)	18p11.31	<a href="#">EPB41L3</a>
DAL1 (Alias)	18p11.31	<a href="#">EPB41L3</a>
DANCE (Alias)	14q32.12	<a href="#">FBLN5</a>
<a href="#">DAP2IP</a>	5p13.1	DAP2IP (disabled homolog 2, mitogen-responsive phosphoprotein (Drosophila))
DAP6 (Alias)	6p21.32	<a href="#">DAXX</a>
<a href="#">DAPK1</a>	9q21.33	DAPK1 (death-associated protein kinase 1)
DAPK (Alias)	9q21.33	<a href="#">DAPK1</a>
DAP Kinase 1 (Alias)	9q21.33	<a href="#">DAPK1</a>
DARPP-32 (Alias)	17q12	<a href="#">PPP1R1B</a>
DARPP32 (Alias)	17q12	<a href="#">PPP1R1B</a>
DAX-1 (Alias)	Xp21.2	<a href="#">NR0B1</a>
DAX1 (Alias)	Xp21.2	<a href="#">NR0B1</a>
<a href="#">DAXX</a>	6p21.32	DAXX (death-associated protein 6)
DBC-1 (Alias)	8p21.3	<a href="#">KIAA1967</a>
DBC1 (Alias)	8p21.3	<a href="#">KIAA1967</a>
DBC2 (Deleted in breast cancer 2 gene protein) (Alias)	8p21.3	<a href="#">RHOTB2</a>
DBI-1 (Alias)	13q14.3	<a href="#">INTS6</a>
<a href="#">DBN1</a>	5q35.3	DBN1 (drebrin 1)
DBPB (Alias)	1p34.2	<a href="#">YBX1</a>
DBP-RB (Alias)	2p24.3	<a href="#">DDX1</a>
<a href="#">DCC</a>	18q21.2	DCC (deleted in colorectal carcinoma)
Dcip1 (Alias)	19q13.2	<a href="#">CXCL17</a>
DCR3 (decoy receptor 3) (Alias)	20q13.33	<a href="#">TNFRSF6B</a>
DD3 (Alias)	10p15.1	<a href="#">AKR1C3</a>
DD96 (Alias)	1p33	<a href="#">PDZK1IP1</a>
DDB2 (Alias)	11p11.2	<a href="#">DDB2</a>
<a href="#">DDB2</a>	11p11.2	DDB2 (xeroderma pigmentosum, complementation group E)
<a href="#">DDC</a>	7p12.1	DDC (dopa decarboxylase (aromatic L-amino acid decarboxylase))
DDEF1 (Alias)	8q24.21	<a href="#">ASAP1</a>
DDIT1 (Alias)	1p31.3	<a href="#">GADD45A</a>
<a href="#">DDIT3</a>	12q13.3	DDIT3 (DNA damage inducible transcript 3)
<a href="#">DDIT4</a>	10q22.1	DDIT4 (DNA-damage-inducible transcript 4)
<a href="#">DDR1</a>	6p21.33	DDR1 (discoidin domain receptor tyrosine kinase 1)
DDR (Alias)	6p21.33	<a href="#">DDR1</a>
<a href="#">DDX10</a>	11q22.3	DDX10 DEAD (Asp-Glu-Ala-Asp) box polypeptide 10
<a href="#">DDX1</a>	2p24.3	DDX1 (DEAD (Asp-Glu-Ala-Asp) box polypeptide 1)

<a href="#">DDX25</a>	11q24.2	DDX25 (DEAD (Asp-Glu-Ala-Asp) box helicase 25)
DDX26 (Alias)	13q14.3	<a href="#">INTS6</a>
DDX2B (Alias)	3q27.3	<a href="#">EIF4A2</a>
<a href="#">DDX43</a>	6q13	DDX43 (DEAD (Asp-Glu-Ala-Asp) box polypeptide 43)
<a href="#">DDX5</a>	17q23.3	DDX5 (DEAD (Asp-Glu-Ala-Asp) box polypeptide 5)
DDX9 (Alias)	1q25.3	<a href="#">DHX9</a>
DDXBP1 (Alias)	15q23	<a href="#">PIAS1</a>
DEBT91 (Alias)	2p11.2	<a href="#">KCMF1</a>
DED (Alias)	17q12	<a href="#">AATF</a>
DEFB101 (Alias)	8p23.1	<a href="#">DEFB1</a>
DEFB-1 (Alias)	8p23.1	<a href="#">DEFB1</a>
<a href="#">DEFB1</a>	8p23.1	DEFB1 (defensin, beta 1)
<a href="#">DEK</a>	6p22.3	DEK DEK oncogene)
DEL1 (Alias)	5q14.3	<a href="#">EDIL3</a>
Demethylase (Alias)	18q21.2	<a href="#">MBD2</a>
<a href="#">DENR</a>	12q24.31	DENR (density-regulated protein)
DEP1 (Alias)	11p11.2	<a href="#">PTPRJ</a>
DERMO1 (Alias)	2q37.3	<a href="#">TWIST2</a>
DESRT (Alias)	10q21.2	<a href="#">ARID5B</a>
DFNA48 (Alias)	12q13.3	<a href="#">MYO1A</a>
DFNA64 (Alias)	12q24.31	<a href="#">DIABLO</a>
DFNB10 (deafness, autosomal recessive 10) (Alias)	21q22.3	<a href="#">TMPRSS3</a>
DFNB39 (Alias)	7q21.11	<a href="#">HGF</a>
DFNB8 (deafness, autosomal recessive 8) (Alias)	21q22.3	<a href="#">TMPRSS3</a>
<a href="#">DGKA</a>	12q13.2	DGKA (diacylglycerol kinase, alpha 80kDa)
DGK-alpha (Alias)	12q13.2	<a href="#">DGKA</a>
DHLAG (Alias)	5q32	<a href="#">CD74</a>
DHMN2 (Alias)	12q24.23	<a href="#">HSPB8</a>
DHRD (Alias)	2p16.1	<a href="#">EFEMP1</a>
DHTR (Alias)	Xq12	<a href="#">AR</a>
<a href="#">DHX9</a>	1q25.3	DHX9 (DEAH (Asp-Glu-Ala-His) box polypeptide 9)
DIA4 (Alias)	16q22.1	<a href="#">NQO1</a>
<a href="#">DIABLO</a>	12q24.31	DIABLO (diablo, IAP-binding mitochondrial protein)
DIABLO-S (Alias)	12q24.31	<a href="#">DIABLO</a>
DI (Alias)	17q21.31	<a href="#">SLC4A1</a>
DIAR6 (Alias)	12p12.3	<a href="#">GUCY2C</a>
DICE1 (Alias)	13q14.3	<a href="#">INTS6</a>
Dickkopf-1 (Alias)	10q21.1	<a href="#">DKK1</a>
DIETER (Alias)	Xp11.23	<a href="#">FOXP3</a>
DIF-2 (Alias)	6p21.33	<a href="#">IER3</a>
DIF2 (Alias)	6p21.33	<a href="#">IER3</a>
DIF (Alias)	6p21.33	<a href="#">TNF</a>

Dig2 (Alias)	10q22.1	<a href="#">DDIT4</a>
DIL-2 (Alias)	20q11.21	<a href="#">TPX2</a>
DIL2 (Alias)	20q11.21	<a href="#">TPX2</a>
<a href="#">DIO2</a>	14q31.1	DIO2 (deiodinase, iodothyronine, type II)
DIP1/2 (Alias)	9q33.2	<a href="#">DAB2IP</a>
DIRA (Alias)	2q13	<a href="#">IL1RN</a>
<a href="#">DIRAS3</a>	1p31.3	DIRAS3 (DIRAS family, GTP-binding RAS-like 3)
<a href="#">DIRC1</a>	2q32.2	DIRC1 (disrupted in renal carcinoma 1)
<a href="#">DIRC2</a>	3q21.1	DIRC2 (disrupted in renal carcinoma 2)
<a href="#">DIRC3</a>	2q35	DIRC3 (disrupted in renal carcinoma 3)
DJ583P15.1.1 (Alias)	20q13.33	<a href="#">TNFRSF6B</a>
DJ79P11.1 (Alias)	Xq22.1	<a href="#">BEX2</a>
<a href="#">DKC1</a>	Xq28	DKC1 (dyskeratosis congenita 1, dyskerin)
DKFZp313G1618 (Alias)	10q22.2	<a href="#">KAT6B</a>
DKFZP434B027 (Alias)	16q24.2	<a href="#">FBXO31</a>
DKFZp434E109 (Alias)	17q23.3	<a href="#">DDX5</a>
DKFZp434H2114 (Alias)	6q13	<a href="#">DDX43</a>
DKFZp434J1815 (Alias)	16q24.2	<a href="#">FBXO31</a>
DKFZp434K0220 (Alias)	17p13.2	<a href="#">TRPV1</a>
DKFZP434L1021 (Alias)	2p11.2	<a href="#">KCMF1</a>
DKFZP434N0250 (Alias)	1q43	<a href="#">AKT3</a>
DKFZp434N231 (Alias)	1p36.31	<a href="#">CHD5</a>
DKFZp434O192 (Alias)	15q14	<a href="#">NUTM1</a>
DKFZp547F068 (Alias)	2q14.3	<a href="#">BIN1</a>
DKFZp547L106 (Alias)	1q22	<a href="#">ARHGEF2</a>
DKFZp547O146 (Alias)	19p13.3	<a href="#">ZBTB7A</a>
DKFZp547P1516 (Alias)	1q22	<a href="#">ARHGEF2</a>
DKFZP564A063 (Alias)	11q13.2	<a href="#">BRMS1</a>
DKFZp566I133 (Alias)	17q23.1	<a href="#">VMP1</a>
DKFZp586C1620 (Alias)	4q21.1	<a href="#">RCHY1</a>
DKFZp586D1519 (Alias)	8p22	<a href="#">MTUS1</a>
DKFZp586F2423 (Alias)	7q33	<a href="#">CREB3L2</a>
DKFZp586O0821 (Alias)	18q21.2	<a href="#">MBD2</a>
DKFZp586O1624 (Alias)	3p14.1	<a href="#">LRIG1</a>
DKFZp586P1322 (Alias)	7q11.23	<a href="#">HSPB1</a>
DKFZp686B01212 (Alias)	11q23.3	<a href="#">TAGLN</a>
DKFZp686B1823 (Alias)	2p15	<a href="#">XPO1</a>
DKFZp686B1993 (Alias)	9q31.3	<a href="#">TXN</a>
DKFZp686B24257 (Alias)	15q25.1	<a href="#">CTSH</a>
DKFZp686E205 (Alias)	4p11	<a href="#">FRYL</a>
DKFZp686F20243 (Alias)	8p22	<a href="#">MTUS1</a>
DKFZp686I1536 (Alias)	1q22	<a href="#">MEF2D</a>
DKFZp686I2148 (Alias)	2q34	<a href="#">MAP2</a>
DKFZp686J01190 (Alias)	17q23.3	<a href="#">DDX5</a>
DKFZp686J1497 (Alias)	4q21.3	<a href="#">PTPN13</a>
DKFZp686J1851 (Alias)	Xq28	<a href="#">RPL10</a>

DKFZp686K02111 (Alias)	7q34	<a href="#">HIPK2</a>
DKFZp686K06110 (Alias)	5q14.2	<a href="#">VCAN</a>
DKFZp686K18126 (Alias)	8p11.22	<a href="#">TACC1</a>
DKFZp686K23225 (Alias)	4q13.3	<a href="#">RASSF6</a>
DKFZp686M0430 (Alias)	6q25.1	<a href="#">AKAP12</a>
DKFZp686N04275 (Alias)	3p21.1	<a href="#">BAP1</a>
DKFZp686N06184 (Alias)	1q31.3	<a href="#">ASPM</a>
DKFZp686O0331 (Alias)	6q25.1	<a href="#">AKAP12</a>
DKFZp686O16152 (Alias)	3q25.2	<a href="#">MME</a>
DKFZp686O19165 (Alias)	7q33	<a href="#">CREB3L2</a>
DKFZp686P11128 (Alias)	11q23.3	<a href="#">TAGLN</a>
DKFZp686P18118 (Alias)	2p21	<a href="#">EML4</a>
DKFZp761F179 (Alias)	1q42.2	<a href="#">EGLN1</a>
DKFZp761K2222 (Alias)	7p15.2	<a href="#">JAZF1</a>
DKFZp761P0818 (Alias)	3q29	<a href="#">DLG1</a>
DKFZp762E1112 (Alias)	10q11.23	<a href="#">NCOA4</a>
DKFZp762L1111 (Alias)	6q13	<a href="#">CD109</a>
DKFZp762O1912 (Alias)	3q11.2	<a href="#">MINA</a>
DKFZp779L0366 (Alias)	19q13.33	<a href="#">CARD8</a>
DKFZp781A095 (Alias)	19q13.43	<a href="#">PEG3</a>
DKFZp781B0426 (Alias)	3q29	<a href="#">DLG1</a>
DKFZp781B0869 (single database entry only) (Alias)	17q24.1	<a href="#">AXIN2</a>
DKFZp781G0451 (Alias)	1p31.3	<a href="#">MIER1</a>
DKFZp781G1938 (Alias)	14q11.2	<a href="#">NDRG2</a>
DKFZp781I035 (Alias)	9q21.33	<a href="#">DAPK1</a>
DKFZp781L1617 (Alias)	1q41	<a href="#">ESRRG</a>
DKFZp781O1747 (Alias)	20p13	<a href="#">RASSF2</a>
DKFZp781P1017 (Alias)	6q24.2	<a href="#">PLAGL1</a>
DKFZp781P1719 (Alias)	9q34.13	<a href="#">RAPGEF1</a>
DKFZp781P2092 (Alias)	20q11.21	<a href="#">BCL2L1</a>
DKK-1 (Alias)	10q21.1	<a href="#">DKK1</a>
<a href="#">DKK1</a>	10q21.1	DKK1 (dickkopf homolog 1 (Xenopus laevis))
<a href="#">DKK3</a>	11p15.3	DKK3 (dickkopf 3 homolog (Xenopus laevis))
<a href="#">DLC1</a>	8p22	DLC1 (deleted in liver cancer 1)
DLC2 (Deleted in Liver Cancer 2) (Alias)	13q13.1	<a href="#">STARD13</a>
<a href="#">DLG1</a>	3q29	DLG1 (discs, large homolog 1 (Drosophila))
DLGH1 (Alias)	3q29	<a href="#">DLG1</a>
DLP1 (Alias)	6q21	<a href="#">PDSS2</a>
<a href="#">DLX2</a>	2q31.1	DLX2 (distal-less homeobox 2)
<a href="#">DLX4</a>	17q21.33	DLX4 (distal-less homeobox 4)
<a href="#">DLX5</a>	7q21.3	DLX5 (distal-less homeobox 5)
<a href="#">DLX6</a>	7q21.3	DLX6 (distal-less homeobox 6)
DLX7 (Alias)	17q21.33	<a href="#">DLX4</a>

DLX8 (Alias)	17q21.33	<a href="#">DLX4</a>
DLX9 (Alias)	17q21.33	<a href="#">DLX4</a>
<a href="#">DMBT1</a>	10q26.13	DMBT1 (Deleted in malignant brain tumors 1)
DMC (Alias)	19q13.2	<a href="#">CXCL17</a>
DMP1 (Alias)	7q21.12	<a href="#">DMTF1</a>
DMTase (Alias)	18q21.2	<a href="#">MBD2</a>
<a href="#">DMTF1</a>	7q21.12	DMTF1 (cyclin D binding myb-like transcription factor 1)
DMTF (Alias)	7q21.12	<a href="#">DMTF1</a>
DNA (Alias)	19p13.2	<a href="#">DNMT1</a>
<a href="#">DNAJA3</a>	16p13.3	DNAJA3 (DnaJ (Hsp40) homolog, subfamily A, member 3)
DNF15S2 (Alias)	3p21.31	<a href="#">MST1</a>
<a href="#">DNMT1</a>	19p13.2	DNMT1 (DNA (cytosine-5-)-methyltransferase 1)
DNMT3A2 (Alias)	2p23.3	<a href="#">DNMT3A</a>
<a href="#">DNMT3A</a>	2p23.3	DNMT3A (DNA (cytosine-5-)-methyltransferase 3 alpha)
<a href="#">DNMT3B</a>	20q11.21	DNMT3B (DNA (cytosine-5-)-methyltransferase 3 beta)
DNMT (Alias)	19p13.2	<a href="#">DNMT1</a>
DOC-2 (Alias)	5p13.1	<a href="#">DAP2IP</a>
DOC2 (Alias)	5p13.1	<a href="#">DAP2IP</a>
DOM (Alias)	22q13.1	<a href="#">SOX10</a>
DOPPEL (Alias)	20p13	<a href="#">PRND</a>
DP5 (Alias)	12q24.22	<a href="#">HRK</a>
DPC4 (Alias)	18q21.2	<a href="#">SMAD4</a>
DPD1 (Alias)	19q13.2	<a href="#">TGFB1</a>
DPL (Alias)	20p13	<a href="#">PRND</a>
<a href="#">DPP4</a>	2q24.2	DPP4 (dipeptidyl-peptidase 4)
DPPIV (Alias)	2q24.2	<a href="#">DPP4</a>
DRAD (Alias)	2p16.1	<a href="#">EFEMP1</a>
DRAL (Alias)	2q12.1	<a href="#">FHL2</a>
<a href="#">DRAM1</a>	12q23.2	DRAM1 (damage-regulated autophagy modulator)
DRAM (Alias)	12q23.2	<a href="#">DRAM1</a>
DRAP-27 (Alias)	12p13.31	<a href="#">CD9</a>
DRCC1 (Alias)	3q21.2	<a href="#">MUC13</a>
DRES-17 (Alias)	1q21.3	<a href="#">PRUNE</a>
DRES17 (Alias)	1q21.3	<a href="#">PRUNE</a>
DRG-1 (Alias)	8q24.22	<a href="#">NDRG1</a>
DRG1 (Alias)	8q24.22	<a href="#">NDRG1</a>
DRP1 (Alias)	12q24.31	<a href="#">DENR</a>
DRP (Alias)	12q24.31	<a href="#">DENR</a>
DRR1 (Alias)	3p14.3	<a href="#">FAM107A</a>
DRY12 (Alias)	7p22.3	<a href="#">GPER1</a>
<a href="#">DSG2</a>	18q12.1	DSG2 (desmoglein 2)
DSS (Alias)	Xp21.2	<a href="#">NR0B1</a>

DT1P1B11 (Alias)	12q21.2	<a href="#">PHLDA1</a>
DT-Diaphorase (Alias)	16q22.1	<a href="#">NQO1</a>
DTK (Alias)	15q15.1	<a href="#">TYRO3</a>
DUG (Alias)	10q25.2	<a href="#">PDCD4</a>
DUP (Alias)	16q24.3	<a href="#">CDT1</a>
DUP (Alias)	5q14.1	<a href="#">MSH3</a>
<a href="#">DUSP10</a>	1q41	DUSP10 (dual specificity phosphatase 10)
<a href="#">DUSP1</a>	5q35.1	DUSP1 (dual specificity phosphatase 1)
<a href="#">DUSP6</a>	12q21.33	DUSP6 (dual specificity phosphatase 6)
DUTT1 (Alias)	3p12.3	<a href="#">ROBO1</a>
<a href="#">DVL1</a>	1p36.33	DVL1 (dishevelled, dsh homolog 1 (Drosophila))
DVL1L1 (Alias)	1p36.33	<a href="#">DVL1</a>
DVL (Alias)	1p36.33	<a href="#">DVL1</a>
DXS1179E (Alias)	3q26.2	<a href="#">PRKCI</a>
DXS648 (Alias)	Xq28	<a href="#">RPL10</a>
DXS648E (Alias)	Xq28	<a href="#">RPL10</a>
<a href="#">DYRK1A</a>	21q22.13	DYRK1A (dual-specificity tyrosine- (Y)-phosphorylation regulated kinase 1A)
DYRK1 (Alias)	21q22.13	<a href="#">DYRK1A</a>
<a href="#">DYRK1B</a>	19q13.2	DYRK1B (dual-specificity tyrosine- (Y)-phosphorylation regulated kinase 1B)
DYRK (Alias)	21q22.13	<a href="#">DYRK1A</a>
DYS14 (Alias)	Yp11.2	<a href="#">TSPY1</a>
DYSAD (Alias)	19q13.12	<a href="#">FXYS5</a>
Dysadherin (Alias)	19q13.12	<a href="#">FXYS5</a>

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