



Gene List for Breast Cancer

(825)

- Genes including exons: 51

AKT1	BRAF	CDK4	ERBB3	FGFR3	MTOR	PTEN	PALB2	PMS1
AKT2	BRCA1	CDKN1B	ERBB4	GAB2	NF1	RB1	MLH1	PMS2
AKT3	BRCA2	CDKN2A	ESR1	HGF	NF2	RPS6KB1	MLH3	TP53
ATM	C11orf30	EGFR	FBXW7	IGF1R	PIK3CA	STK11	MSH2	
ATR	CCND1	EPHA3	FGFR1	KRAS	PIK3CB	TSC1	MSH3	
AURKA	CCNE1	ERBB2	FGFR2	MDM2	PIK3R1	TSC2	MSH6	

- Related genes being monitored: 1131 exons of 774 genes

ABCA10	ALX4	ARPC4-TTLL3	C19orf38	CCDC159	CHI3L1	CPSF6	DHDDS	EFCAB5	EXTL3	FOLH1
ABCA8	ANK2	ASH2L	C1orf112	CCDC17	CISD3	CRTAM	DIAPH1	EFCAB6	F8	FOXA1
ABCB7	ANKRD13D	ASXL2	C1orf35	CCT3	CLCN7	CRTAP	DKC1	EFCAB7	FAH	FOXJ2
ABCC8	ANKRD20A4	ATAD2B	C20orf112	CCT6B	CLEC16A	CRYBG3	DLST	EFHA2	FAM114A2	FRG1
ABCF2	ANKRD27	ATG9B	C2orf47	CD1E	CLINT1	CSMD1	DMD	EFNA5	FAM131B	FRG2B
ACE	ANKRD28	ATP10D	C2orf62	CD300LF	CNKSR2	CSN3	DMXL1	EIF1AX	FAM13C	FRMD4A
ACOT11	ANKRD30B	ATP12A	C7orf53	CD9	CNOT3	CSNK1E	DMXL2	EIF2B5	FAM157B	FRMPD2
ACPP	ANKRD36B	ATP2C1	C9orf114	CD97	CNTN1	CSPP1	DNAH10	EIF2C2	FAM177B	FRMPD4
ACSL1	ANO2	ATP6V0A2	C9orf43	CD99	CNTN4	CTCF	DNAH5	EIF3I	FAM21A	FSD2
ACSM5	AP1B1	ATP8B2	CACNA1A	CDH1	CNTNAP3B	CTIF	DNAH9	EIF4ENIF1	FAM3A	FSHR
ACSS3	AP1G2	ATXN2	CACNA1D	CDH24	COL14A1	CTNNA2	DNAJC11	EIF4H	FAM49A	FUBP1
ACTL6B	AP3B1	ATXN7L2	CACNA1E	CDH26	COL16A1	CTNNB1	DNAJC9	ELAVL3	FAM49B	FUNDC1
ADAM23	APAF1	BAP1	CADM2	CDK11A	COL1A1	CTSF	DNTTIP1	ELL3	FAM86B1	GAB3
ADAM33	APC	BAX	CAMKK1	CDK12	COL4A5	CYP2A13	DOCK11	EMID2	FAN1	GABRD
ADAMTS19	APLP2	BBS9	CAPRIN1	CDK14	COL4A6	CYP3A4	DOCK3	ENPP2	FANCC	GAD2
ADAMTS5	APMAP	BCAS1	CARS	CDK18	COL5A1	CYP4A11	DOT1L	ENTPD6	FASTK	GALNT14
ADAMTSL1	APPL2	BCAS2	CARS2	CDK19	COL5A2	CYTH4	DPP10	EPB41L2	FATE1	GATA3
ADD2	AQP12A	BLOC1S1	CASC4	CDS1	COL5A3	DCLK2	DPP4	EPHB1	FDCSP	GIGYF1
AGMAT	ARFGAP1	BMPR1B	CASP8	CEACAM20	COL6A5	DCST1	DRGX	EPS8L3	FLNC	GIN54
AGTPBP1	ARFRP1	BRF1	CASP8AP2	CECR2	COL6A6	DDB1	DUOX1	ESD	FLOT2	GIPR
AHCTF1	ARHGAP35	BRSK2	CASQ2	CELA2B	COL9A1	DDX24	DYSF	ETNK2	FLT3LG	GLB1L3
AKR1C1	ARHGAP40	BRWD3	CATSPER2	CGN	COPA	DDX3X	DZANK1	ETV6	FMN2	GLYR1
ALDH1A3	ARHGEF1	BSG	CBFB	CHD3	COPG1	DEPDC4	ECHDC1	EXOC4	FMNL3	GMDS
ALDH2	ARHGEF7	BTNL3	CBX4	CHD4	CPA1	DGKK	EDN1	EXOC6	FNDCC4	GNAS
ALG5	ARNTL	C12orf5	CCDC155	CHD6	CPSF3	DHCR24	EEF1A1	EXOC7	FNIP2	GNPTAB

FOLH1	IL27RA	LARP1	MEFV	NEK5	PDK1	PRUNE	RPUSD4	SLC17A8	SYCP2L	TMEM145	ZNF614
FOXA1	IMPG1	LCN10	METTL14	NELL1	PDRG1	PSIP1	RREB1	SLC25A1	SYNE1	TMEM247	ZNF687
FOXJ2	INPP4B	LCT	METTL5	NIPBL	PEX6	PSMC4	RRP7A	SLC25A30	SYNE2	TMEM80	ZNF705B
FRG1	INPP5J	LCTL	MGAM	NLGN3	PGAP1	PSMC6	RUNDC3A	SLC26A3	SYNJ2	TMEM87A	ZNF705G
FRG2B	IQCA1	LETM1	MICALL1	NLRC3	PHACTR3	PSTPIP1	RUNX1	SLC2A2	TAF1	TMTC4	ZNF711
FRMD4A	IRS2	LGALS13	MID1	NMI	PHF20L1	PTBP3	RYR2	SLC30A5	TAF1B	TMX3	ZNF804B
FRMPD2	ITFG2	LILRB3	MIER2	NOP2	PHYH	PTCD3	RYR3	SLC35B2	TAF6	TNFAIP6	ZSWIM8
FRMPD4	ITGA8	LILRB4	MLPH	NOS1	PI4KB	PTCH1	SAFB2	SLC35B4	TARBP1	TNFSF4	
FSD2	ITGA9	LIPN	MORC1	NOS2	PIP4K2C	PTGES3L-AARSD1	SAG	SLC38A4	TBC1D1	TNNT1	
FSHR	ITIH1	LMAN1L	MORN1	NOTCH2	PIP5K1C	PTGS2	SAMD8	SLC38A5	TBC1D21	TNS3	
FUBP1	ITLN2	LMBR1L	MRPL24	NOTCH3	PIWIL1	PTPLAD1	SCN10A	SLC43A1	TBC1D3	TP53BP1	
FUNDC1	ITPKB	LPCAT4	MRPS18B	NRXN2	PKD1L2	PTPN13	SCN3A	SLC45A1	TBC1D5	TPCN1	
GAB3	ITPR1	LPHN3	MSI1	NT5C3L	PKHD1	PTPRA	SCN9A	SLC4A4	TBL1X	TPH2	
GABRD	KCNAB2	LRBA	MTA2	NUDCD2	PKLR	PTPRD	SDK2	SLC8A1	TBP	TPMT	
GAD2	KCNH6	LRP2	MTM1	NUP205	PLAC8	PTPRM	SEC14L4	SLCO1B7	TBX22	TRIM33	
GALNT14	KCNQ2	LRP4	MTR	NUP210	PLCB4	QRICH2	SEC24B	SLCO5A1	TBX3	TRIM51	
GATA3	KDM4A	LRRC16B	MTTP	NWD1	PLCZ1	RAB1B	SEH1L	SMTN	TCF20	TRIO	
GIGYF1	KDM6A	LRRC7	MUC5B	NXF1	PLEC	RAB3GAP2	SELP	SNTG1	TCF4	TRIP11	
GIN54	KIAA0195	LRRC72	MUS81	NXF5	PLK2	RAB6A	SEMA6A	SPAG16	TCP10	TRMT112	
GIPR	KIAA0226	LRRD1	MYB	OBP2B	PLOD3	RAC2	SEPT12.	SPATA13	TCP11	TRUB1	
GLB1L3	KIAA0319	LRRFIP2	MYBPC2	OSBPL10	PLXNA1	RALBP1	SERPINA7	SPG20	TEK	TSGA10	
GLYR1	KIAA0922	LRSAM1	MYCBP2	OTOA	POLE	RAPGEF2	SETD1B	SPINT1	TESC	TSKS	
GMDS	KIAA1191	LUC7L2	MYH15	OTOGL	POLR2J	RARB	SETD2	SPPL2A	TEX35	TSPAN12	
GNAS	KIAA1199	LUZP4	MYH4	OVCH1	POLR3GL	RASEF	SF1	SPPL3	TFDP1	TSR2	
GNPTAB	KIAA1211L	MAEL	MYH8	P4HB	POLRMT	RBM6	SF3B1	SPRED1	TGDS	TTF2	
HMHA1	KIF13A	MAGI1	MYH9	PABPC4	PPA1	RBMX	SF3B14	SPTA1	TGM2	TTN	
HNH4A	KIF1B	MAN2A1	MYL5	PACS2	PPDPF	RCC1	SF3B3	SRRT	TGM5	TUBA3C	
HOMER2	KIF26B	MAP2	MYL6	PAEP	PPEF1	REC8	SGCZ	SSBP3	THBS2	TUBGCP4	
HPS3	KIFAP3	MAP2K4	MYLK2	PAGE1	PPFIBP2	RELN	SGIP1	SSH2	THEM5	TUBGCP5	
HPS4	KIFC1	MAP3K1	MYO3A	PARK2	PPIL2	RERE	SGK1	SSPO	THOC1	TYK2	
HSPA12B	KIR2DL3	MAP4K1	MYOM1	PARP4	PPP1R17	RFWD2	SGPL1	ST18	THSD7A	TYRP1	
HSPD1	KIR3DL3	MAPKAPK3	NACAD	PCK2	PPP4R4	RFX3	SH2D3A	ST6GALNAC1	THSD7B	U2AF2	
HYDIN	KIT	MAPRE3	NARF	PCLO	PQBP1	RHOA	SH3BGR	STAG2	TIMM44	UBASH3A	
IBSP	KLHL14	MAST1	NAT10	PCNT	PREB	RNF215	SH3PXD2A	STAT4	TIMP3	UBE2Q1	
IFT172	KLK1	MBIP	NAV3	PCNXL2	PREX2	RNF219	SHISA4	STAT6	TJP3	UBE4B	
IGSF9	KMT2B	MBTPS2	NBPF1	PCSK5	PRKACA	RNF43	SIDT2	STK11IP	TLE1	UCHL3	
IKBKAP	KMT2C	MCF2L2	NBPF10	PCYT1A	PRKAG3	RPL22	SIK3	STK31	TLL1	UCK2	
IKBKE	KRT2	MCOLN2	NCF2	PDCD6	PRKCD	RPL36A	SIM1	STX3	TMC2	UGT8	
IL11RA	KRT9	MDN1	NCKAP1	PDE2A	PRKDC	RPS5	SIM2	SULT1A4	TMED8	ULK3	
IL13RA2	KTN1	MED12	NCOR1	PDIA5	PRKX	RPS6KA1	SLC13A3	SUPT5H	TMEM104	UMOD	
IL1RAPL1	L3MBTL1	MED23\	NCOR2	PDILT	PRRX1	RPTOR	SLC17A6	SUPT6H	TMEM120B	UNC13A	