

## Mutations in MCF7

MCF7\_BREAST

Gene	Protein Change	Chr	Start	End	NCBI Build	Variant Classification	Variant Type	Reference Allele	Tumor Allele 1	dbSNP ID	Annotation Transcript	Other Transcripts	Mutation Assessor
<a href="#">AAK1</a>	p.541_542QQ>Q	2	69741754	69741756	37	In_Frame_Del	Del	TGT	-	rs55712143	uc002sfp.2	AAK1_uc010fdk.2...	
<a href="#">ADAM17</a>		2	9630245	9630245	37	3'UTR	Del	T	-		uc002qzu.2	IAH1_uc010yiz.1...	
<a href="#">ADAMTS18</a>	p.P138A	16	77465275	77465275	37	Missense_Mutation	SNP	G	C		uc002ffc.3	ADAMTS18_uc002f...	<a href="#">view</a>
<a href="#">ADAMTS18</a>	p.S102L	16	77465382	77465382	37	Missense_Mutation	SNP	G	A		uc002ffc.3	ADAMTS18_uc002f...	<a href="#">view</a>
<a href="#">ALPK1</a>		4	113347609	113347610	37	Intron	Ins	-	T	rs68137453	uc003iap.3	ALPK1_uc003ian....	
<a href="#">ALPK2</a>	p.EDTST1006del	18	56204388	56204402	37	In_Frame_Del	Del	CAGTT...	-	i44017;rs11762	uc002lhj.3	ALPK2_uc002lhk....	
<a href="#">BCR</a>	p.I456T	22	23596073	23596073	37	Missense_Mutation	SNP	T	C	rs113693210	uc002zww.2	BCR_uc002zwx.2_...	<a href="#">view</a>
<a href="#">BTG1</a>		12	92537852	92537852	37	3'UTR	SNP	T	C		uc001tby.3	BTG1_uc001tbv.1...	<a href="#">view</a>
<a href="#">CACNB2</a>		10	18828721	18828722	37	3'UTR	Ins	-	AA	rs3841459	uc001ipr.2	CACNB2_uc009xjz...	
<a href="#">CLK1</a>		2	201724746	201724746	37	Intron	SNP	A	G		uc010zhi.1	CLK1_uc002uwd.2...	<a href="#">view</a>
<a href="#">CLTCL1</a>	p.V1201_splice	22	19189003	19189004	37	Splice_Site_Ins	Ins	-	C	rs11386977	uc002zpb.2	CLTCL1_uc011agv...	
<a href="#">CTBP2</a>	p.K974fs	10	126678123	126678123	37	Frame_Shift_Del	Del	T	-		uc001lie.3	CTBP2_uc009yak....	
<a href="#">EIF2AK4</a>		15	40284909	40284909	37	Intron	SNP	A	T		uc001zkm.1	EIF2AK4_uc010bb...	<a href="#">view</a>
<a href="#">EPHA5</a>	p.L1009P	4	66189923	66189923	37	Missense_Mutation	SNP	A	G		uc011cah.1	EPHA5_uc003hcx....	<a href="#">view</a>
<a href="#">EPHA6</a>		3	97367230	97367231	37	Intron	Ins	-	A	rs115253553	uc010how.1	EPHA6_uc003drs....	
<a href="#">ERBB4</a>	p.Y1242C	2	212248542	212248542	37	Missense_Mutation	SNP	T	C		uc002veg.1	ERBB4_uc002veh....	<a href="#">view</a>
<a href="#">ERCC6</a>	p.V83I	10	50740764	50740764	37	Missense_Mutation	SNP	C	T		uc001jhs.3	PGBD3_uc009xoe....	<a href="#">view</a>
<a href="#">ESR2</a>		14	64694202	64694203	37	3'UTR	Ins	-	A		uc001xgu.2	ESR2_uc001xgv.2...	
<a href="#">FBN2</a>	p.I1500N	5	127654666	127654666	37	Missense_Mutation	SNP	A	T		uc003kuu.2		<a href="#">view</a>
<a href="#">FMN2</a>	p.PPLPGAGIPPP939del	1	240370914	240370946	37	In_Frame_Del	Del	GCCCC...	-	997328;rs4997...	uc010pye.1	FMN2_uc010pyd.1...	
<a href="#">GRIA3</a>		X	122318386	122318387	37	Splice_Site_Ins	Ins	-	G	rs66632982	uc004etq.3	GRIA3_uc004etr....	
<a href="#">ILK</a>		11	6630029	6630029	37	Intron	Del	C	-		uc001mee.2	ILK_uc001mef.2_...	
<a href="#">ITPR2</a>	p.R470_splice	12	26834804	26834805	37	Splice_Site_Ins	Ins	-	ACTC	696203;rs5919...	uc001rhg.2		
<a href="#">LRP1B</a>	p.R3990G	2	141093332	141093332	37	Missense_Mutation	SNP	T	C		uc002tvj.1		<a href="#">view</a>
<a href="#">MAML2</a>	p.604_607QQQ>Q	11	95825375	95825383	37	In_Frame_Del	Del	TGCTG...	-	rs113349418	uc001pfw.1		
<a href="#">MAML3</a>	p.Q767_splice	4	140651585	140651587	37	Splice_Site_Del	Del	CTG	-		uc003ihz.1	MGST2_uc010ioi....	
<a href="#">MAP3K1</a>	p.T949del	5	56177849	56177851	37	In_Frame_Del	Del	CAA	-		uc003jqw.3		
<a href="#">MAP3K13</a>	p.D380N	3	185167815	185167815	37	Missense_Mutation	SNP	G	A		uc010hyf.2	MAP3K13_uc011br...	<a href="#">view</a>
<a href="#">MAP3K14</a>	p.R218_splice	17	43364293	43364294	37	Splice_Site_Ins	Ins	-	G	rs66766023	uc002iiw.1	MAP3K14_uc010da...	
<a href="#">MAP3K4</a>	p.A1199del	6	161519351	161519353	37	In_Frame_Del	Del	CTG	-		uc003qtn.2	MAP3K4_uc010kkc...	
<a href="#">MAP3K5</a>	p.988_989insD	6	136913666	136913667	37	In_Frame_Ins	Ins	-	GTC		uc003qhc.2	MAP3K5_uc011edj...	
<a href="#">MECOM</a>		3	168862826	168862826	37	Intron	SNP	C	T		uc011bpj.1	MECOM_uc003ffj....	<a href="#">view</a>
<a href="#">MET</a>		7	116381122	116381122	37	Intron	Del	T	-		uc010lkh.2	MET_uc003vij.2_...	
<a href="#">MLL3</a>	p.Y816fs	7	151945071	151945072	37	Frame_Shift_Ins	Ins	-	T		uc003wla.2		
<a href="#">MYH9</a>	p.KLDPHL682del	22	36702074	36702091	37	In_Frame_Del	Del	GAGAT...	-		uc003apg.2	MYH9_uc003aph.1...	
<a href="#">MYLK</a>	p.T151T	3	123457879	123457879	37	Silent	SNP	G	A		uc003ego.2	MYLK_uc011bjw.1...	<a href="#">view</a>
<a href="#">NCAM1</a>		11	112832307	112832308	37	5'UTR	Ins	-	A	rs117108942	uc009yyq.1	NCAM1_uc001pno....	
<a href="#">NCAM1</a>		11	112832340	112832340	37	5'UTR	Del	C	-		uc009yyq.1	NCAM1_uc001pno....	
<a href="#">NCOA3</a>	p.QQQ1272del	20	46279815	46279823	37	In_Frame_Del	Del	GCAGC...	-		uc002xtk.2	NCOA3_uc010ght....	

<a href="#">NLRP1</a>	p.P242Q	17	5463291	5463291	37	Missense_Mutation	SNP	G	T		uc002gci.2	NLRP1_uc002gcg...	<a href="#">view</a>
<a href="#">NPR1</a>		1	153665919	153665920	37	3'UTR	Ins	-	C	rs66682713	uc001fcs.3	NPR1_uc010pdz.1...	
<a href="#">PIK3CA</a>	p.E545K	3	178936091	178936091	37	Missense_Mutation	SNP	G	A	rs104886003	uc003fjk.2		<a href="#">view</a>
<a href="#">PRKDC</a>	p.L1244fs	8	48805816	48805817	37	Frame_Shift_Ins	Ins	-	G	rs67588121	uc003xqi.2	PRKDC_uc003xqj...	
<a href="#">PTPRD</a>	p.Q1597*	9	8341851	8341851	37	Nonsense_Mutation	SNP	G	A		uc003zkk.2	PTPRD_uc003zpk...	<a href="#">view</a>
<a href="#">SOS1</a>		2	39212889	39212889	37	3'UTR	SNP	T	G		uc002rrk.3	SOS1_uc002rrj.3...	<a href="#">view</a>
<a href="#">TCERG1L</a>	p.E435fs	10	132915153	132915153	37	Frame_Shift_Del	Del	T	-		uc001lqp.2	TCERG1L_uc009ya...	
<a href="#">TNIK</a>	p.G884V	3	170811698	170811698	37	Missense_Mutation	SNP	C	A		uc003fhh.2	TNIK_uc003fhi.2...	<a href="#">view</a>
<a href="#">TRIM33</a>		1	114940211	114940212	37	3'UTR	Ins	-	T	rs66490349	uc001eew.2	TRIM33_uc010owr...	
<a href="#">TRPS1</a>		8	116635872	116635873	37	5'UTR	Ins	-	A	rs76893349	uc003yny.2	TRPS1_uc011lhy....	
<a href="#">TTN</a>	p.A23795D	2	179431771	179431771	37	Missense_Mutation	SNP	G	T		uc010zfg.1	TTN_uc010zfh.1_...	<a href="#">view</a>
<a href="#">VEGFC</a>	p.S419_splice	4	177605082	177605084	37	Splice_Site_Del	Del	TCA	-		uc003ius.1		
<a href="#">WNK2</a>	p.L312Q	9	95993250	95993251	37	Missense_Mutation	DNP	TG	AA		uc004ati.1	WNK2_uc011lud.1...	

