

**Mutations in 5637 Cells**

Gene	Protein Change	Chr	Start	End	NCBI Build	Variant Classification	Variant Type	Reference Allele	Tumor Allele 1	dbSNP ID	Annotation Transcript	Other Transcripts	Method	Mutation Assessor
<a href="#">AAK1</a>	p.S41_542QQ>Q	2	69741754	69741756	37	In_Frame_Del	Del	TGT	-	rs55712143	uc002sfp.2	AAK1_uc010fdk.2...	Hybrid_Capture	
<a href="#">ADAM28</a>		8	24211994	24211997	37	3'UTR	Del	CTAT	-	rs10610134	uc003xdy.2	ADAM28_uc011laa...	Hybrid_Capture	
<a href="#">AKAP12</a>	p.1531_1532insE	6	151674116	151674117	37	In_Frame_Ins	Ins	-	GAG	rs34737819	uc011eep.1	AKAP12_uc003qoe...	Hybrid_Capture	
<a href="#">ALPK1</a>	p.S942del	4	113353523	113353525	37	In_Frame_Del	Del	TTC	-		uc003iap.3	ALPK1_uc003ian....	Hybrid_Capture	
<a href="#">ATF1</a>		12	51213622	51213622	37	3'UTR	SNP	G	T		uc001rww.3	ATF1_uc010smu.1...	Hybrid_Capture	<a href="#">view</a>
<a href="#">AURKC</a>		19	57742494	57742507	37	5'UTR	Del	GGACG...	-	rs67926438;rs112039303;rs59094959	uc002qoe.2	AURKC_uc002qoc....	Hybrid_Capture	
<a href="#">BCR</a>		22	23632777	23632778	37	Intron	Ins	-	T		uc002zww.2	BCR_uc002zwx.2_...	Hybrid_Capture	
<a href="#">BCR</a>		22	23631813	23631814	37	Intron	Ins	-	C	rs66503844	uc002zww.2	BCR_uc002zwx.2_...	Hybrid_Capture	
<a href="#">BMPR2</a>	p.D697N	2	203420477	203420477	37	Missense_Mutation	SNP	G	A		uc002zuf.3	BMPR2_uc010ftr....	Hybrid_Capture	<a href="#">view</a>
<a href="#">C17ORF37</a>		17	37885640	37885641	37	3'UTR	Ins	-	G	rs75811535	uc002hsq.2		Hybrid_Capture	
<a href="#">CACNB2</a>		10	18828721	18828722	37	3'UTR	Ins	-	AA	rs3841459	uc001ipr.2	CACNB2_uc009xjz...	Hybrid_Capture	
<a href="#">CAD</a>	p.Y1091F	2	27456549	27456549	37	Missense_Mutation	SNP	A	T		uc002rji.2	CAD_uc010eyw.2_...	Hybrid_Capture	<a href="#">view</a>
<a href="#">CAMK2D</a>	p.G21E	4	114682163	114682163	37	Missense_Mutation	SNP	C	T		uc003ibo.3	CAMK2D_uc003ibi...	Hybrid_Capture	<a href="#">view</a>
<a href="#">CDKN2C</a>	p.A61V	1	51439617	51439617	37	Missense_Mutation	SNP	C	T		uc001csf.2	CDKN2C_uc001csg...	Hybrid_Capture	<a href="#">view</a>
<a href="#">CLK1</a>	p.S247S	2	201722746	201722746	37	Silent	SNP	T	C		uc010zhi.1	CLK1_uc002uwd.2...	Hybrid_Capture	<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...	Hybrid_Capture	
<a href="#">CREB3L2</a>	p.T100del	7	137612914	137612916	37	In_Frame_Del	Del	TGG	-		uc003vtw.2	CREB3L2_uc003vt...	Hybrid_Capture	
<a href="#">CTBP2</a>	p.K974fs	10	126678123	126678123	37	Frame_Shift_Del	Del	T	-		uc001ie.3	CTBP2_uc009yak....	Hybrid_Capture	
<a href="#">DACH1</a>		13	72014625	72014626	37	3'UTR	Ins	-	T	rs117109529	uc010thn.1	DACH1_uc010tho....	Hybrid_Capture	
<a href="#">DFFB</a>		1	3774097	3774097	37	5'UTR	SNP	A	T		uc010nzn.1	DFFB_uc001alc.2...	Hybrid_Capture	<a href="#">view</a>
<a href="#">DYRK1A</a>	p.L295V	21	38862695	38862695	37	Missense_Mutation	SNP	C	G		uc002ywk.2	DYRK1A_uc002ywl...	Hybrid_Capture	<a href="#">view</a>
<a href="#">EIF4E</a>		4	99808082	99808082	37	Intron	SNP	T	C		uc011ceb.1	EIF4E_uc011cea....	Hybrid_Capture	<a href="#">view</a>
<a href="#">ELF4</a>	p.Q488fs	X	129201226	129201226	37	Frame_Shift_Del	Del	G	-		uc004evd.3	ELF4_uc004eve.3...	Hybrid_Capture	
<a href="#">EPHB6</a>	p.176_177insS	7	142562051	142562052	37	In_Frame_Ins	Ins	-	CAT	rs72043374	uc011kst.1	EPHB6_uc011ksu....	Hybrid_Capture	
<a href="#">EPHB6</a>		7	142568771	142568771	37	3'UTR	Del	C	-		uc011kst.1	EPHB6_uc011ksu....	Hybrid_Capture	
<a href="#">ERBB2</a>	p.S310F	17	37868208	37868208	37	Missense_Mutation	SNP	C	T		uc002hso.2	ERBB2_uc002hsm....	Hybrid_Capture	<a href="#">view</a>
<a href="#">ETV1</a>		7	14028708	14028708	37	5'UTR	Del	A	-	rs77190713	uc011jqx.1	ETV1_uc011jxn.1...	Hybrid_Capture	
<a href="#">FGFR1OP</a>		6	167453519	167453520	37	3'UTR	Ins	-	T	rs115519488	uc003qvj.2	CCR6_uc003qvl.2...	Hybrid_Capture	
<a href="#">FLI1</a>		11	128638217	128638217	37	Intron	Del	G	-		uc010sbu.1	FLI1_uc010sbt.1...	Hybrid_Capture	
<a href="#">FN1</a>		2	216244182	216244185	37	Intron	Del	GTAC	-		uc002vfa.2	FN1_uc002vfb.2_...	Hybrid_Capture	
<a href="#">FOXP1</a>		3	71008341	71008342	37	3'UTR	Ins	-	T	rs11433724;rs114233617	uc003dol.2	FOXP1_uc003dom....	Hybrid_Capture	
<a href="#">FZD1</a>	p.G307R	7	90895114	90895114	37	Missense_Mutation	SNP	G	A		uc003ula.2		Hybrid_Capture	<a href="#">view</a>
<a href="#">GLI3</a>	p.R1020G	7	42005613	42005613	37	Missense_Mutation	SNP	G	C		uc011kbh.1	GLI3_uc011kbg.1...	Hybrid_Capture	<a href="#">view</a>
<a href="#">GPR112</a>	p.D2657del	X	135474445	135474447	37	In_Frame_Del	Del	GAT	-	rs3030295	uc004ezu.1	GPR112_uc010nsb...	Hybrid_Capture	
<a href="#">GRAMD1B</a>	p.D121_splice	11	123465441	123465441	37	Splice_Site_SNP	SNP	A	C		uc001pyw.2	GRAMD1B_uc001py...	Hybrid_Capture	<a href="#">view</a>
<a href="#">GRIA3</a>		X	122318386	122318387	37	Splice_Site_Ins	Ins	-	G	rs66632982	uc004etq.3	GRIA3_uc004etr....	Hybrid_Capture	
<a href="#">GRK6</a>	p.E285fs	5	176861029	176861029	37	Frame_Shift_Del	Del	G	-		uc011dfz.1	GRK6_uc003mgp.2...	Hybrid_Capture	
<a href="#">GTSE1</a>		22	46722670	46722673	37	Intron	Del	GTTT	-		uc011aqy.1	GTSE1_uc011aqz....	Hybrid_Capture	
<a href="#">GUCY2C</a>		12	14827464	14827466	37	Intron	Del	ATC	-	rs72525754;rs3083879	uc001rcd.2	GUCY2C_uc009zhz...	Hybrid_Capture	
<a href="#">HDLBP</a>		2	242192650	242192650	37	Intron	SNP	C	T		uc002waz.2	HDLBP_uc002wba....	Hybrid_Capture	<a href="#">view</a>
<a href="#">HGF</a>	p.E159K	7	81386512	81386512	37	Missense_Mutation	SNP	C	T		uc003uhl.2	HGF_uc003uhm.2_...	Hybrid_Capture	<a href="#">view</a>
<a href="#">HIF1A</a>		14	62213929	62213930	37	3'UTR	Ins	-	T	rs67890419	uc001xfs.2	HIF1A_uc001xfq....	Hybrid_Capture	
<a href="#">HSP90AA1</a>	p.D349H	14	102551320	102551320	37	Missense_Mutation	SNP	C	G		uc001ykv.3	HSP90AA1_uc001y...	Hybrid_Capture	<a href="#">view</a>
<a href="#">ILK</a>		11	6630029	6630029	37	Intron	Del	C	-		uc001mee.2	ILK_uc001mef.2_...	Hybrid_Capture	
<a href="#">ITPR2</a>	p.A1384S	12	26749920	26749920	37	Missense_Mutation	SNP	C	A		uc001rhh.2		Hybrid_Capture	<a href="#">view</a>
<a href="#">ITPR2</a>	p.R470_splice	12	26834804	26834805	37	Splice_Site_Ins	Ins	-	ACTC	rs66696203;rs59199365	uc001rhh.2		Hybrid_Capture	
<a href="#">JAG1</a>	p.D1037Y	20	10621521	10621521	37	Missense_Mutation	SNP	C	A		uc002wmw.2		Hybrid_Capture	<a href="#">view</a>
<a href="#">KDM5A</a>	p.W139*	12	475220	475220	37	Nonsense_Mutation	SNP	C	T		uc001qif.1	KDM5A_uc001qie....	Hybrid_Capture	<a href="#">view</a>
<a href="#">LATS2</a>		13	21620222	21620223	37	5'UTR	Ins	-	A	rs61240127;rs115723063	uc009zsz.2	LATS2_uc001unr....	Hybrid_Capture	
<a href="#">LRP6</a>	p.K82N	12	12397399	12397399	37	Missense_Mutation	SNP	T	A		uc001rah.3	LRP6_uc010shl.1...	Hybrid_Capture	<a href="#">view</a>
<a href="#">LRRK2</a>	p.Q2120*	12	40742288	40742288	37	Nonsense_Mutation	SNP	C	T		uc001rmg.3	LRRK2_uc009zjw....	Hybrid_Capture	<a href="#">view</a>
<a href="#">MAML3</a>	p.Q767_splice	4	140651585	140651587	37	Splice_Site_Del	Del	CTG	-		uc003ihz.1	MGST2_uc010ioi....	Hybrid_Capture	
<a href="#">MAP3K1</a>	p.T949del	5	56177849	56177851	37	In_Frame_Del	Del	CAA	-		uc003jqw.3		Hybrid_Capture	
<a href="#">MAP3K4</a>	p.I179V	6	161469839	161469839	37	Missense_Mutation	SNP	A	G		uc003qtn.2	MAP3K4_uc010kkc...	Hybrid_Capture	<a href="#">view</a>
<a href="#">MAP3K5</a>	p.K898E	6	136923105	136923105	37	Missense_Mutation	SNP	T	C		uc003qhc.2	MAP3K5_uc011edj...	Hybrid_Capture	<a href="#">view</a>
<a href="#">MAP4K3</a>	p.R637K	2	39499487	39499487	37	Missense_Mutation	SNP	C	T		uc002rro.2	MAP4K3_uc002rrp...	Hybrid_Capture	<a href="#">view</a>

<a href="#">MAP4K3</a>	p.R504Q	2	39514069	39514069	37	Missense_Mutation	SNP	C	T		uc002rro.2	MAP4K3_uc002rrp...	Hybrid_Capture	<a href="#">view</a>
<a href="#">MAPK1</a>	p.R79K	22	22162019	22162019	37	Missense_Mutation	SNP	C	T		uc002zvn.2	MAPK1_uc002zvo....	Hybrid_Capture	<a href="#">view</a>
<a href="#">MAPK12</a>		22	50695816	50695816	37	Intron	SNP	G	A		uc003bkm.1	MAPK12_uc003bkn...	Hybrid_Capture	<a href="#">view</a>
<a href="#">MAPK9</a>	p.L132V	5	179688740	179688740	37	Missense_Mutation	SNP	G	C		uc003mls.3	MAPK9_uc003mlt....	Hybrid_Capture	<a href="#">view</a>
<a href="#">MCM3APAS</a>		21	47671275	47671276	37	3'UTR	Ins	-	AAT	rs67797185	uc002zin.2	MCM3APAS_uc002z...	Hybrid_Capture	
<a href="#">MGA</a>		15	42059537	42059537	37	3'UTR	SNP	C	A		uc010ucy.1	MGA_uc010ucz.1_...	Hybrid_Capture	<a href="#">view</a>
<a href="#">MKL1</a>	p.V441G	22	40815120	40815120	37	Missense_Mutation	SNP	A	C		uc003ayv.1	MKL1_uc003ayw.1...	Hybrid_Capture	<a href="#">view</a>
<a href="#">MLF1</a>		3	158289060	158289060	37	5'UTR	Del	G	-		uc003fcc.2	MLF1_uc003fbz.2...	Hybrid_Capture	
<a href="#">MLLT6</a>		17	36881873	36881873	37	3'UTR	Del	C	-		uc002hqi.3	MLLT6_uc002hqi...	Hybrid_Capture	
<a href="#">MYLK</a>		3	123332876	123332876	37	3'UTR	Del	T	-	rs115544676	uc003ego.2	MYLK_uc003egl.2...	Hybrid_Capture	
<a href="#">MYST4</a>	p.E1104del	10	76781906	76781908	37	In_Frame_Del	Del	GAA	-	rs79644703	uc001jwn.1	MYST4_uc001jwm....	Hybrid_Capture	
<a href="#">MYST4</a>		10	76790936	76790936	37	3'UTR	Del	A	-		uc001jwn.1	MYST4_uc001jwo....	Hybrid_Capture	
<a href="#">NACA</a>	p.K1648R	12	57110371	57110371	37	Missense_Mutation	SNP	T	C		uc009zoy.1	NACA_uc001slz.2...	Hybrid_Capture	<a href="#">view</a>
<a href="#">NCAM1</a>		11	112832307	112832308	37	5'UTR	Ins	-	A	rs117108942	uc009yyq.1	NCAM1_uc001pno....	Hybrid_Capture	
<a href="#">NCAM1</a>		11	112832340	112832340	37	5'UTR	Del	C	-		uc009yyq.1	NCAM1_uc001pno....	Hybrid_Capture	
<a href="#">NCOA3</a>	p.Q1276del	20	46279864	46279866	37	In_Frame_Del	Del	CAA	-	rs1132443;rs28529067	uc002xtk.2	NCOA3_uc010ght....	Hybrid_Capture	
<a href="#">NF2</a>	p.W184R	22	30051616	30051616	37	Missense_Mutation	SNP	T	A		uc003age.3	NF2_uc003afy.3_...	Hybrid_Capture	<a href="#">view</a>
<a href="#">NPM1</a>		5	170837734	170837734	37	3'UTR	Del	T	-		uc011dex.1	NPM1_uc003mbi.2...	Hybrid_Capture	
<a href="#">NR1H2</a>	p.176_177insQ	19	50881822	50881823	37	In_Frame_Ins	Ins	-	CAG	rs61751954;rs1052533	uc010enw.2	NR1H2_uc002prv....	Hybrid_Capture	
<a href="#">OBSCN</a>	p.V889L	1	228412171	228412171	37	Missense_Mutation	SNP	G	T		uc009xez.1	OBSCN_uc001hsn....	Hybrid_Capture	<a href="#">view</a>
<a href="#">PARP9</a>	p.P98A	3	122274831	122274831	37	Missense_Mutation	SNP	G	C		uc010hri.2	PARP9_uc003eff....	Hybrid_Capture	<a href="#">view</a>
<a href="#">PAX3</a>		2	223066017	223066018	37	Intron	Ins	-	C	rs115619343	uc002vmt.1	PAX3_uc002vmy.1...	Hybrid_Capture	
<a href="#">PCM1</a>	p.E1960D	8	17882908	17882908	37	Missense_Mutation	SNP	A	T		uc003wyl.3	PCM1_uc011kyh.1...	Hybrid_Capture	<a href="#">view</a>
<a href="#">PDK2</a>	p.D206N	17	48184448	48184448	37	Missense_Mutation	SNP	G	A		uc002iqc.2	PDK2_uc002iqb.2...	Hybrid_Capture	<a href="#">view</a>
<a href="#">PDK4</a>		7	95221928	95221928	37	Intron	Del	A	-		uc003uoa.2	PDK4_uc003unz.2...	Hybrid_Capture	
<a href="#">PDZRN4</a>		12	41903380	41903380	37	Intron	SNP	C	G		uc010skn.1	PDZRN4_uc001rmq...	Hybrid_Capture	<a href="#">view</a>
<a href="#">PI4K2B</a>	p.A348P	4	25265435	25265435	37	Missense_Mutation	SNP	G	C		uc003grk.2	PI4K2B_uc011bxs...	Hybrid_Capture	<a href="#">view</a>
<a href="#">PI4K2B</a>	p.M389I	4	25270153	25270153	37	Missense_Mutation	SNP	G	A		uc003grk.2	PI4K2B_uc011bxs...	Hybrid_Capture	<a href="#">view</a>
<a href="#">PIGU</a>	p.Q118R	20	33225755	33225755	37	Missense_Mutation	SNP	T	C		uc002xas.2	PIGU_uc010zul.1...	Hybrid_Capture	<a href="#">view</a>
<a href="#">PIK3C2A</a>		11	17111198	17111199	37	3'UTR	Del	GT	-		uc001mmq.3	PIK3C2A_uc009yg...	Hybrid_Capture	
<a href="#">PLCG1</a>	p.K890N	20	39798771	39798771	37	Missense_Mutation	SNP	G	C		uc002xjo.1	PLCG1_uc002xjp....	Hybrid_Capture	<a href="#">view</a>
<a href="#">PLK2</a>		5	57755013	57755014	37	Intron	Ins	-	A	rs79105101	uc003jrn.2	PLK2_uc011cql.1...	Hybrid_Capture	
<a href="#">PML</a>	p.T244K	15	74315297	74315297	37	Missense_Mutation	SNP	C	A		uc002aww.2	PML_uc002awm.2_...	Hybrid_Capture	<a href="#">view</a>
<a href="#">PPM1E</a>	p.43_44insEP	17	56833457	56833458	37	In_Frame_Ins	Ins	-	GAACCC	rs74256772	uc002iwx.2	PPM1E_uc010ddd....	Hybrid_Capture	
<a href="#">PRKD3</a>		2	37480319	37480320	37	Stop_Codon_Ins	Ins	-	T	rs79875666	uc002rqd.2		Hybrid_Capture	
<a href="#">PRKDC</a>	p.L1244fs	8	48805816	48805817	37	Frame_Shift_Ins	Ins	-	G	rs67588121	uc003xqi.2	PRKDC_uc003xqi....	Hybrid_Capture	
<a href="#">PTCH1</a>		9	98270321	98270328	37	Intron	Del	GTGAG...	-	rs28475503;rs117698058	uc004avk.3	PTCH1_uc010mro....	Hybrid_Capture	
<a href="#">RB1</a>	p.Y325*	13	48941665	48941665	37	Nonsense_Mutation	SNP	T	A		uc001vcb.2	RB1_uc010act.1_...	Hybrid_Capture	<a href="#">view</a>
<a href="#">RBPJ</a>		4	26431822	26431822	37	Intron	Del	A	-	rs76214390	uc003grx.1	RBPJ_uc003gry.1...	Hybrid_Capture	
<a href="#">RECQL4</a>	p.E883Q	8	145738338	145738338	37	Missense_Mutation	SNP	C	G		uc003zdi.2		Hybrid_Capture	<a href="#">view</a>
<a href="#">RECQL4</a>	p.R766fs	8	145738768	145738768	37	Frame_Shift_Del	Del	G	-		uc003zdi.2		Hybrid_Capture	
<a href="#">RIOK1</a>	p.E436Q	6	7411601	7411601	37	Missense_Mutation	SNP	G	C		uc003mxn.2	RIOK1_uc003mxo....	Hybrid_Capture	<a href="#">view</a>
<a href="#">RPS6KB1</a>		17	58024224	58024225	37	3'UTR	Ins	-	AA	rs67846207	uc002ixy.2	RPS6KB1_uc010dd...	Hybrid_Capture	
<a href="#">RUNX1T1</a>	p.T58K	8	93029540	93029540	37	Missense_Mutation	SNP	G	T		uc011gli.1	RUNX1T1_uc003yf...	Hybrid_Capture	<a href="#">view</a>