

## Mutations in OE33

OE33_OESOPHAGUS													
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.S541_542QQ>C	2	69741754	69741756	37	In_Frame_Del	Del	TGT	-	rs55712143	uc002sfp.2	AK1_uc010fdk.2...	
<a href="#">ACACA</a>		17	35766564	35766564	37	5'UTR	Del	A	-		uc002hno.2	ACA_uc002hnn...	
<a href="#">ADAM17</a>		2	9630245	9630245	37	3'UTR	Del	T	-		uc002qzu.2	H1_uc010yiz.1...	
<a href="#">ADAM28</a>		8	24211994	24211997	37	3'UTR	Del	CTAT	-	rs10610134	uc003xdy.2	AM28_uc011laa...	
<a href="#">AIM1</a>	p.T820S	6	106968765	106968765	37	missense_Mutati	SNP	A	T		uc003prh.2		<a href="#">view</a>
<a href="#">AKAP9</a>	p.L1335_1336insI	7	91652178	91652179	37	In_Frame_Ins	Ins	-	AAC	rs34756483	uc003ulg.2	AP9_uc003ule....	
<a href="#">AURKC</a>		19	57742494	57742507	37	5'UTR	Del	GGACG...	-	rs112039303;rs112039303;	uc002qoe.2	URKC_uc002qoc....	
<a href="#">BLM</a>	p.T1015I	15	91337421	91337421	37	missense_Mutati	SNP	C	T		uc002bpr.2	M_uc010uqh.1	<a href="#">view</a>
<a href="#">BLM</a>	p.S1209T	15	91347463	91347463	37	missense_Mutati	SNP	T	A	rs1801256	uc002bpr.2	M_uc010uqh.1	<a href="#">view</a>
<a href="#">BMP4</a>		14	54416601	54416602	37	3'UTR	Ins	-	A	495140;rs76331	uc001xal.3	P4_uc010aoh.2...	
<a href="#">CACNA1F</a>	p.R815_815E>EE	X	49076224	49076225	37	In_Frame_Ins	Ins	-	TCC		uc004dnb.2	CNA1F_uc010ni...	
<a href="#">CACNB2</a>		10	18828721	18828722	37	3'UTR	Ins	-	AA	rs3841459	uc001ipr.2	CNB2_uc009xjz...	
<a href="#">CCNB1IP1</a>	p.W96C	14	20784395	20784395	37	missense_Mutati	SNP	C	A		uc001vww.2	NB1P1_uc001v...	<a href="#">view</a>
<a href="#">CDC25A</a>		3	48200281	48200281	37	3'UTR	SNP	T	C		uc003csh.1	C25A_uc003cs...	<a href="#">view</a>
<a href="#">CLTCL1</a>	p.V1201_splice	22	19189003	19189004	37	Splice_Site_Ins	Ins	-	C	rs11386977	uc002zpb.2	TCL1_uc011agv...	
<a href="#">CNTN1</a>	p.S224R	12	41323771	41323771	37	missense_Mutati	SNP	A	C		uc001rmm.1	TN1_uc009zjy...	<a href="#">view</a>
<a href="#">CNTN5</a>	p.E680D	11	100126526	100126526	37	missense_Mutati	SNP	G	T		uc001pga.2	TN5_uc001pfz...	<a href="#">view</a>
<a href="#">COL18A1</a>	p.P958T	21	46901892	46901892	37	missense_Mutati	SNP	C	A		uc011afs.1	L18A1_uc002zl...	<a href="#">view</a>
<a href="#">CUBN</a>	p.D2417E	10	16957131	16957131	37	missense_Mutati	SNP	G	C		uc001ioo.2		<a href="#">view</a>
<a href="#">CXCL12</a>		10	44873992	44873993	37	Intron	Ins	-	CT	rs117617571	uc001jhb.2	CL12_uc001jbf...	
<a href="#">CYP19A1</a>	p.F406C	15	51504563	51504563	37	missense_Mutati	SNP	A	C		uc001zyz.3	P19A1_uc001z...	<a href="#">view</a>
<a href="#">CYP1B1</a>		2	38297654	38297655	37	3'UTR	Ins	-	A	rs9341258	uc002rqp.2		
<a href="#">DACH1</a>		13	72014625	72014626	37	3'UTR	Ins	-	T	rs117109529	uc010thn.1	ACH1_uc010tho....	
<a href="#">DDR2</a>		1	162750211	162750213	37	3'UTR	Del	TTT	-		uc001gcf.2	R2_uc001gcg.2...	
<a href="#">DLC1</a>	p.S1012I	8	12956040	12956040	37	missense_Mutati	SNP	C	A		uc003wwm.2	C1_uc003wwk...	<a href="#">view</a>
<a href="#">DYRK1A</a>		21	38884966	38884967	37	3'UTR	Ins	-	T	rs72430212	uc002ywk.2	RK1A_uc002ywi...	
<a href="#">EIF4B</a>	p.YRDG241del	12	53421593	53421604	37	In_Frame_Del	Del	GGTAT...	-		uc010snu.1	F4B_uc009zmp....	
<a href="#">EPHA5</a>		4	66189753	66189754	37	3'UTR	Ins	-	T	rs67487372	uc011cah.1	HA5_uc003hcx....	
<a href="#">EPHA6</a>		3	97367230	97367231	37	Intron	Ins	-	A	rs115253553	uc010how.1	HA6_uc003drs....	
<a href="#">EPHA6</a>		3	97467610	97467611	37	3'UTR	Ins	-	CT		uc010how.1		
<a href="#">FANCM</a>	p.G1235V	14	45645661	45645661	37	missense_Mutati	SNP	G	T		uc001wwd.3	NCM_uc010anf...	<a href="#">view</a>
<a href="#">FGFR10P</a>		6	167453519	167453520	37	3'UTR	Ins	-	T	rs115519488	uc003qvj.2	R6_uc003qvl.2...	
<a href="#">FLI1</a>		11	128638217	128638217	37	Intron	Del	G	-		uc010sbu.1	L1_uc010sbt.1...	

<a href="#">FN1</a>		2	216244182	216244185	37	Intron	Del	GTAC	-		uc002vfa.2	v1_uc002vfb.2_...
<a href="#">GPR112</a>	p.D2657del	X	135474445	135474447	37	In_Frame_Del	Del	GAT	-	rs3030295	uc004ezu.1	R112_uc010nsb...
<a href="#">GRIA3</a>		X	122318386	122318387	37	Splice_Site_Ins	Ins	-	G	rs66632982	uc004etq.3	RIA3_uc004etr....
<a href="#">GSK3B</a>		3	119812334	119812334	37	5'UTR	SNP	T	G		uc003edn.2	K3B_uc003edo <a href="#">view</a>
<a href="#">GUCY2C</a>		12	14827464	14827466	37	Intron	Del	ATC	-	rs525754;rs3083	uc001rcd.2	CY2C_uc009zhz...
<a href="#">HIF1A</a>		14	62213929	62213930	37	3'UTR	Ins	-	T	rs67890419	uc001xfs.2	F1A_uc001xfq....
<a href="#">IL1R2</a>	p.R64C	2	102626146	102626146	37	issense_Mutati	SNP	C	T		uc002tbm.2	L1R2_uc002tbn. <a href="#">view</a>
<a href="#">ILK</a>		11	6630029	6630029	37	Intron	Del	C	-		uc001mee.2	K_uc001mef.2_...
<a href="#">ITGA10</a>	p.Q152P	1	145528658	145528658	37	issense_Mutati	SNP	A	C		uc001eoa.2	PF10_uc001em <a href="#">view</a>
<a href="#">ITPR2</a>	p.R470_splice	12	26834804	26834805	37	Splice_Site_Ins	Ins	-	ACTC	696203;rs59199	uc001rhg.2	
<a href="#">KLK7</a>		19	51480672	51480675	37	3'UTR	Del	GGTT	-		uc002puo.2	K7_uc002pup.2...
<a href="#">LATS2</a>		13	21620222	21620223	37	5'UTR	Ins	-	A	rs40127;rs11572	uc009zsz.2	LTS2_uc001unr....
<a href="#">LMNB2</a>	p.R239Q	19	2435138	2435138	37	issense_Mutati	SNP	C	T		uc002lwa.1	MNB2_uc002lvy <a href="#">view</a>
<a href="#">LRRK2</a>	p.E193D	12	40634292	40634292	37	issense_Mutati	SNP	G	T		uc001rmg.3	
<a href="#">LZTR1</a>		22	21348741	21348741	37	Intron	SNP	C	T	rs75177448	uc002zto.2	LZTR1_uc002ztn. <a href="#">view</a>
<a href="#">MAF</a>		16	79628537	79628537	37	Intron	Del	T	-		uc002ffm.2	AF_uc002ffn.2_...
<a href="#">MAML3</a>	p.Q767_splice	4	140651585	140651587	37	Splice_Site_Del	Del	CTG	-		uc003ihz.1	GST2_uc010ioi....
<a href="#">MAP2K1</a>		15	66679649	66679650	37	5'UTR	Ins	-	C	rs67229745	uc010bhq.2	
<a href="#">MAP3K1</a>	p.T949del	5	56177849	56177851	37	In_Frame_Del	Del	CAA	-		uc003jqw.3	
<a href="#">MAP3K14</a>	p.R218_splice	17	43364293	43364294	37	Splice_Site_Ins	Ins	-	G	rs66766023	uc002iiw.1	MAP3K14_uc010da...
<a href="#">MAPKAPK3</a>		3	50685575	50685575	37	3'UTR	Del	A	-	rs76026164	uc003day.1	MAPKAPK3_uc003d...
<a href="#">MAPKBP1</a>	p.S88N	15	42103137	42103137	37	issense_Mutati	SNP	G	A		uc001zok.3	MAPKBP1_uc001z <a href="#">view</a>
<a href="#">MET</a>	p.V1007I	7	116411980	116411980	37	issense_Mutati	SNP	G	A		uc010lkh.2	MET_uc003vij.2_ <a href="#">view</a>
<a href="#">MGA</a>	p.L1762M	15	42040906	42040906	37	issense_Mutati	SNP	T	A		uc010ucy.1	MGA_uc010ucz.1 <a href="#">view</a>
<a href="#">MGC42105</a>		5	43245846	43245846	37	5'UTR	SNP	C	T		uc003jno.2	
<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.Q1276del	20	46279837	46279839	37	In_Frame_Del	Del	CAG	-	rs2664555	uc002xtk.2	NCOA3_uc010ght....
<a href="#">NEK3</a>	p.K313_splice	13	52718050	52718051	37	Splice_Site_Ins	Ins	-	T	rs72514762	uc001vgh.2	NEK3_uc001vvg.2...
<a href="#">NIN</a>	p.Q1688K	14	51214712	51214712	37	issense_Mutati	SNP	G	T		uc001wyi.2	NIN_uc001wyj.2_ <a href="#">view</a>
<a href="#">NPAT</a>		11	108042860	108042860	37	Intron	SNP	A	G		uc001pjz.3	NPAT_uc010rvv.1 <a href="#">view</a>
<a href="#">NPM1</a>		5	170837734	170837734	37	3'UTR	Del	T	-		uc011dex.1	NPM1_uc003mbi.2...
<a href="#">NPR1</a>		1	153665919	153665920	37	3'UTR	Ins	-	C	rs66682713	uc001fcs.3	NPR1_uc010pdz.1...
<a href="#">NR1H2</a>	p.176_177insQ	19	50881820	50881821	37	In_Frame_Ins	Ins	-	AAC	rs783852;rs11235	uc010enw.2	NR1H2_uc002prv....
<a href="#">NYNRIN</a>	p.R757C	14	24879269	24879269	37	issense_Mutati	SNP	C	T		uc001wpf.3	
<a href="#">PAX3</a>		2	223158653	223158653	37	Intron	Del	T	-	rs112753212	uc002vmt.1	PAX3_uc002vmy.1...
<a href="#">PAX5</a>		9	37034095	37034095	37	5'UTR	Del	C	-		uc003zzo.1	PAX5_uc011pw.1...
<a href="#">PDE4DIP</a>		1	144994865	144994865	37	5'UTR	SNP	G	A		uc001elw.3	PDE4DIP_uc009wi <a href="#">view</a>

<a href="#">PGR</a>		11	100933598	100933599	37	Intron	Ins	-	AATGA	rs35148438	uc001pgh.2	iR_uc001pgg.2_...	
<a href="#">PHIP</a>		6	79650265	79650266	37	3'UTR	Ins	-	T	977753;rs1319:	uc003pir.2	HIP_uc003piq.2...	
<a href="#">PHKG2</a>		16	30763046	30763047	37	Intron	Ins	-	T		uc002dzi.1	PHKG2_uc002dzj...	
<a href="#">PIK3C2G</a>		12	18800990	18800990	37	3'UTR	Del	A	-	rs16914368	uc010sib.1	K3C2G_uc001rd...	
<a href="#">PIK3CG</a>	p.L1092H	7	106545798	106545798	37	issense_Mutati	SNP	T	A		uc003vdv.3	K3CG_uc003vdt...	<a href="#">view</a>
<a href="#">PPP3R2</a>	p.D107Y	9	104356894	104356894	37	issense_Mutati	SNP	C	A		uc004bbr.2	PPP3R2_uc004bb...	<a href="#">view</a>
<a href="#">PRKCA</a>		17	64298959	64298960	37	5'UTR	Ins	-	G	rs71160558	uc002jfp.1	PRKCA_uc002jfo...	
<a href="#">PRKDC</a>	p.L1244fs	8	48805816	48805817	37	Frame_Shift_In	Ins	-	G	rs67588121	uc003xqi.2	PRKDC_uc003xqj...	
<a href="#">PRKG1</a>	p.T532fs	10	54041963	54041963	37	Frame_Shift_De	Del	T	-		uc001jjo.2	PRKG1_uc001jji...	
<a href="#">RAP1GDS1</a>		4	99363413	99363413	37	3'UTR	SNP	C	A		uc003htw.3	P1GDS1_uc003...	<a href="#">view</a>
<a href="#">RASGRF1</a>		15	79277150	79277151	37	Intron	Ins	-	C	045840;rs7764	uc002beq.2	SGRF1_uc002be...	
<a href="#">RECQL4</a>	p.R766fs	8	145738768	145738768	37	Frame_Shift_De	Del	G	-		uc003zdz.2		
<a href="#">ROS1</a>	p.F1295V	6	117678050	117678050	37	issense_Mutati	SNP	A	C		uc003pxp.1	ROS1_uc011ebi.1	<a href="#">view</a>
<a href="#">RPS6KA5</a>		14	91360733	91360734	37	Intron	Ins	-	T	rs77438853	uc001xys.2	RPS6KA5_uc010tw...	
<a href="#">RPS6KL1</a>		14	75373626	75373627	37	3'UTR	Ins	-	TGAT		uc001xqx.1	RPS6KL1_uc001xq...	
<a href="#">9-Sep</a>		17	75471864	75471865	37	Intron	Del	AG	-		uc002jts.3	9-Sep_uc010wtk...	
<a href="#">SLC6A8</a>		X	152957656	152957657	37	Intron	Ins	-	A		uc004fib.3	SLC6A8_uc004fic...	
<a href="#">SMC2</a>	p.A498P	9	106876322	106876322	37	issense_Mutati	SNP	G	C		uc004bbv.2	SMC2_uc004bbu...	<a href="#">view</a>
<a href="#">SMG1</a>	p.D894A	16	18880578	18880578	37	issense_Mutati	SNP	T	G		uc002dfm.2	SMG1_uc010bwb...	<a href="#">view</a>
<a href="#">STK25</a>		2	242435659	242435662	37	Intron	Del	AAGG	-	rs15138;rs75497	uc002wbm.2	STK25_uc002wbk...	
<a href="#">TMEM123</a>		11	102269398	102269398	37	3'UTR	Del	G	-		uc001pha.2	TMEM123_uc009yx...	
<a href="#">TNFRSF13C</a>		22	42321309	42321309	37	3'UTR	SNP	T	C		uc010gyp.1	TNFRSF13C_uc011ap...	<a href="#">view</a>
<a href="#">TP53</a>	p.C135Y	17	7578526	7578526	37	issense_Mutati	SNP	C	T		uc002gim.2	TP53_uc002gig.1	<a href="#">view</a>
<a href="#">TRIM37</a>	p.C109S	17	57161406	57161406	37	issense_Mutati	SNP	C	G	rs121908391	uc002iwy.3	TRIM37_uc002iwi...	<a href="#">view</a>
<a href="#">TTN</a>	.9928_9928E>E	2	179544685	179544686	37	In_Frame_Ins	Ins	-	TCT		uc010zfg.1	TTN_uc010zfh.1_...	
<a href="#">TTN</a>	p.G7153W	2	179582412	179582412	37	issense_Mutati	SNP	C	A		uc010zfg.1	TTN_uc010zfh.1...	<a href="#">view</a>
<a href="#">UNC13C</a>	p.K2198N	15	54919260	54919260	37	issense_Mutati	SNP	A	C		uc002ack.2	UNC13C_uc002acr...	<a href="#">view</a>
<a href="#">VEGFC</a>	p.S419_splice	4	177605082	177605084	37	Splice_Site_De	Del	TCA	-		uc003ius.1		
<a href="#">VPS13B</a>		8	100887922	100887923	37	3'UTR	Del	TG	-		uc003yiv.2	VPS13B_uc003yiw...	

