

## Mutations in HCT-15

HCT15_LARGE_INTESTINE													
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.S41_542Q>Q	2	69741754	69741756	37	In_Frame_Del	Del	TGT	-	rs55712143	uc002sfp.2	AAK1_uc010fdk.2...	
<a href="#">ABCA3</a>	p.E195G	16	2373553	2373553	37	Missense_Mutation	SNP	T	C		uc002cpy.1	ABCA3_uc010bsk....	<a href="#">view</a>
<a href="#">ABCA3</a>	p.T25M	16	2376256	2376256	37	Missense_Mutation	SNP	G	A		uc002cpy.1	ABCA3_uc010bsk....	<a href="#">view</a>
<a href="#">ABCC3</a>	p.S646_splice	17	48746282	48746282	37	Splice_Site_SNP	SNP	T	C		uc002isl.2		<a href="#">view</a>
<a href="#">ABCC3</a>	p.V806M	17	48750836	48750836	37	Missense_Mutation	SNP	G	A		uc002isl.2		<a href="#">view</a>
<a href="#">ABL2</a>	p.Q994H	1	179077420	179077420	37	Missense_Mutation	SNP	C	A		uc001gmj.3	ABL2_uc010pnf.1...	<a href="#">view</a>
<a href="#">ABL2</a>		1	179086419	179086420	37	Intron	Ins	-	A	rs72207641	uc001gmj.3	ABL2_uc010pnf.1...	
<a href="#">ACACA</a>	p.E2318D	17	35445947	35445947	37	Missense_Mutation	SNP	C	A		uc002hno.2	ACACA_uc002hnk....	<a href="#">view</a>
<a href="#">ACACA</a>	p.C1292S	17	35563771	35563771	37	Missense_Mutation	SNP	A	T		uc002hno.2	ACACA_uc002hnk....	<a href="#">view</a>
<a href="#">ACACA</a>		17	35766564	35766564	37	5'UTR	Del	A	-		uc002hno.2	ACACA_uc002hnn....	
<a href="#">ACACB</a>	p.R1890I	12	109685508	109685508	37	Missense_Mutation	SNP	G	T		uc001tob.2	ACACB_uc001toc....	<a href="#">view</a>
<a href="#">ACVR1B</a>	p.W320*	12	52377808	52377808	37	Nonsense_Mutation	SNP	G	A		uc010snn.1	ACVR1B_uc001rzl...	<a href="#">view</a>
<a href="#">ACVR1B</a>	p.R337G	12	52377857	52377857	37	Missense_Mutation	SNP	C	G		uc010snn.1	ACVR1B_uc001rzl...	<a href="#">view</a>
<a href="#">ACVR1B</a>	p.V487D	12	52385722	52385722	37	Missense_Mutation	SNP	T	A		uc010snn.1	ACVR1B_uc001rzm...	<a href="#">view</a>
<a href="#">ACVR2A</a>	p.K435fs	2	148683686	148683686	37	Frame_Shift_Del	Del	A	-		uc002twg.2	ACVR2A_uc010zbn...	
<a href="#">ACVR2B</a>	p.M239T	3	38520668	38520668	37	Missense_Mutation	SNP	T	C		uc003cif.2	ACVR2B_uc003cig...	<a href="#">view</a>
<a href="#">ADAM12</a>	p.G308E	10	127787067	127787067	37	Missense_Mutation	SNP	C	T		uc001ljk.2	ADAM12_uc010qul...	<a href="#">view</a>
<a href="#">ADAM28</a>		8	24211994	24211997	37	3'UTR	Del	CTAT	-	rs10610134	uc003xdy.2	ADAM28_uc011laa...	
<a href="#">ADAM28</a>	p.L72fs	8	24167472	24167473	37	Frame_Shift_Ins	Ins	-	A		uc003xdy.2	ADAM28_uc003xdx...	
<a href="#">ADAMTS18</a>	p.F695fs	16	77356311	77356311	37	Frame_Shift_Del	Del	A	-		uc002ffc.3	ADAMTS18_uc010c...	
<a href="#">ADAMTS18</a>	p.S373F	16	77396100	77396100	37	Missense_Mutation	SNP	G	A		uc002ffc.3	ADAMTS18_uc010c...	<a href="#">view</a>
<a href="#">ADAMTS18</a>	p.E107V	16	77465367	77465367	37	Missense_Mutation	SNP	T	A		uc002ffc.3	ADAMTS18_uc002f...	<a href="#">view</a>
<a href="#">ADAMTS19</a>	p.A850S	5	129015516	129015516	37	Missense_Mutation	SNP	G	T		uc003kvb.1	ADAMTS19_uc010j...	<a href="#">view</a>
<a href="#">ADAMTS2</a>	p.L819_splice	5	178556931	178556931	37	Splice_Site_SNP	SNP	A	G		uc003mjw.2		<a href="#">view</a>
<a href="#">ADAMTSL3</a>		15	84694234	84694234	37	Intron	SNP	C	T		uc002bjz.3	ADAMTSL3_uc010b...	<a href="#">view</a>
<a href="#">ADAMTSL3</a>		15	84694247	84694247	37	Intron	SNP	A	G		uc002bjz.3	ADAMTSL3_uc010b...	<a href="#">view</a>
<a href="#">ADAMTSL3</a>	p.G1595W	15	84705553	84705553	37	Missense_Mutation	SNP	G	T		uc002bjz.3	ADAMTSL3_uc010b...	<a href="#">view</a>
<a href="#">AFF1</a>		4	87968820	87968820	37	Intron	SNP	G	C		uc011ccz.1	AFF1_uc011ccx.1...	<a href="#">view</a>
<a href="#">AFF3</a>	p.Q144R	2	100623741	100623741	37	Missense_Mutation	SNP	T	C		uc002taf.2	AFF3_uc002tag.2...	<a href="#">view</a>
<a href="#">AGAP2</a>	p.A963T	12	58121336	58121336	37	Missense_Mutation	SNP	C	T		uc001spq.2	AGAP2_uc001spo....	<a href="#">view</a>
<a href="#">AKAP12</a>	p.1531_1532insE	6	151674116	151674117	37	In_Frame_Ins	Ins	-	GAG	rs34737819	uc011eep.1	AKAP12_uc003qoe...	
<a href="#">AKAP6</a>	p.G543A	14	33015487	33015487	37	Missense_Mutation	SNP	G	C		uc001wrq.2	AKAP6_uc010aml....	<a href="#">view</a>
<a href="#">AKAP6</a>	p.L645S	14	33015793	33015793	37	Missense_Mutation	SNP	T	C		uc001wrq.2	AKAP6_uc010aml....	<a href="#">view</a>
<a href="#">AKAP9</a>	p.1335_1336insQ	7	91652178	91652179	37	In_Frame_Ins	Ins	-	AAC	rs34756483	uc003ulg.2	AKAP9_uc003ule....	
<a href="#">AKAP9</a>	p.Q2236H	7	91706264	91706264	37	Missense_Mutation	SNP	G	T		uc003ulg.2	AKAP9_uc003ulf....	<a href="#">view</a>
<a href="#">AKAP9</a>	p.P3530L	7	91727090	91727090	37	Missense_Mutation	SNP	C	T		uc003ulg.2	AKAP9_uc003ulf....	<a href="#">view</a>
<a href="#">ALPK1</a>	p.K1140*	4	113360908	113360908	37	Nonsense_Mutation	SNP	A	T		uc003iap.3	ALPK1_uc003ian....	<a href="#">view</a>
<a href="#">ALPK1</a>	p.F61S	4	113303614	113303614	37	Missense_Mutation	SNP	T	C		uc003iap.3	ALPK1_uc003iam....	<a href="#">view</a>
<a href="#">ALPK2</a>		18	56148906	56148906	37	3'UTR	SNP	G	T		uc002lhj.3		<a href="#">view</a>

<a href="#">ALPK2</a>	p.P2143L	18	56149140	56149140	37	Missense_Mutation	SNP	G	A	rs35196844	uc002lhj.3		<a href="#">view</a>
<a href="#">ALPK2</a>	p.G1433W	18	56203122	56203122	37	Missense_Mutation	SNP	C	A		uc002lhj.3	ALPK2_uc002lhk....	<a href="#">view</a>
<a href="#">ALPK3</a>	p.Q795H	15	85399748	85399748	37	Missense_Mutation	SNP	G	T		uc002ble.2		<a href="#">view</a>
<a href="#">ALPK3</a>	p.A1810V	15	85411392	85411392	37	Missense_Mutation	SNP	C	T		uc002ble.2	ALPK3_uc010upc....	<a href="#">view</a>
<a href="#">ALS2</a>		2	202587706	202587707	37	Intron	Ins	-	A	rs3219165	uc002uyo.2	ALS2_uc002uyp.3...	
<a href="#">ALS2</a>	p.S710I	2	202609022	202609022	37	Missense_Mutation	SNP	C	A		uc002uyo.2	ALS2_uc002uyp.3...	<a href="#">view</a>
<a href="#">AMHR2</a>	p.G142C	12	53818684	53818684	37	Missense_Mutation	SNP	G	T		uc001scx.1	AMHR2_uc009zmy....	<a href="#">view</a>
<a href="#">ANAPC5</a>	p.S235S	12	121775148	121775148	37	Silent	SNP	G	T		uc001uag.2	ANAPC5_uc001uae...	<a href="#">view</a>
<a href="#">APBB1IP</a>	p.I83N	10	26789835	26789835	37	Missense_Mutation	SNP	T	A		uc001iss.2	APBB1IP_uc001is...	<a href="#">view</a>
<a href="#">APC</a>	p.E2550Q	5	112178939	112178939	37	Missense_Mutation	SNP	G	C		uc010jby.2	APC_uc011cvt.1_...	<a href="#">view</a>
<a href="#">APC</a>	p.R2166*	5	112177787	112177787	37	Nonsense_Mutation	SNP	C	T		uc010jby.2	APC_uc011cvt.1_...	<a href="#">view</a>
<a href="#">APC</a>	p.K1561N	5	112175974	112175974	37	Missense_Mutation	SNP	G	T		uc010jby.2	APC_uc011cvt.1_...	<a href="#">view</a>
<a href="#">APC</a>	p.G1416fs	5	112175539	112175539	37	Frame_Shift_Del	Del	C	-		uc010jby.2	APC_uc011cvt.1_...	
<a href="#">APC</a>	p.R727M	5	112173471	112173471	37	Missense_Mutation	SNP	G	T		uc010jby.2	APC_uc011cvt.1_...	<a href="#">view</a>
<a href="#">APC</a>	p.K993N	5	112174270	112174270	37	Missense_Mutation	SNP	G	T		uc010jby.2	APC_uc011cvt.1_...	<a href="#">view</a>
<a href="#">AR</a>		X	66943813	66943813	37	3'UTR	SNP	A	G		uc004dww.1	AR_uc004dww.1_3...	<a href="#">view</a>
<a href="#">ARFGF1</a>	p.F1330I	8	68138347	68138347	37	Missense_Mutation	SNP	A	T		uc003xxo.1	ARFGF1_uc003xx...	<a href="#">view</a>
<a href="#">ARHGEF10</a>	p.R1316C	8	1905340	1905340	37	Missense_Mutation	SNP	C	T		uc003wpr.2	ARHGEF10_uc003w...	<a href="#">view</a>
<a href="#">ARHGEF12</a>	p.R26Q	11	120278467	120278467	37	Missense_Mutation	SNP	G	A		uc001pxl.1	ARHGEF12_uc009z...	<a href="#">view</a>
<a href="#">ARHGEF12</a>	p.R993H	11	120343781	120343781	37	Missense_Mutation	SNP	G	A	rs34726241	uc001pxl.1	ARHGEF12_uc009z...	<a href="#">view</a>
<a href="#">ARHGEF12</a>	p.E1484K	11	120352181	120352181	37	Missense_Mutation	SNP	G	A		uc001pxl.1	ARHGEF12_uc009z...	<a href="#">view</a>
<a href="#">ARHGEF7</a>	p.R759H	13	111944543	111944543	37	Missense_Mutation	SNP	G	A		uc001vrs.2	ARHGEF7_uc001vr...	<a href="#">view</a>
<a href="#">ASTN1</a>	p.A1089T	1	176852092	176852092	37	Missense_Mutation	SNP	C	T		uc001glc.2	ASTN1_uc001glb....	<a href="#">view</a>
<a href="#">ASTN1</a>	p.E592D	1	176926925	176926925	37	Missense_Mutation	SNP	C	A		uc001glc.2	ASTN1_uc001glb....	<a href="#">view</a>
<a href="#">ATM</a>	p.E586D	11	108122714	108122714	37	Missense_Mutation	SNP	G	T		uc001pkb.1	ATM_uc009yxr.1_...	<a href="#">view</a>
<a href="#">ATP10A</a>	p.K1414N	15	25924746	25924746	37	Missense_Mutation	SNP	C	A		uc010ayu.2		<a href="#">view</a>
<a href="#">ATP10A</a>	p.R208W	15	26026198	26026198	37	Missense_Mutation	SNP	G	A		uc010ayu.2		<a href="#">view</a>
<a href="#">ATP13A5</a>	p.L1136I	3	192993082	192993082	37	Missense_Mutation	SNP	G	T		uc011bsq.1		<a href="#">view</a>
<a href="#">ATP8B1</a>	p.R541M	18	55351276	55351276	37	Missense_Mutation	SNP	C	A		uc002lgw.2		<a href="#">view</a>
<a href="#">ATP8B1</a>	p.R296C	18	55362457	55362457	37	Missense_Mutation	SNP	G	A		uc002lgw.2		<a href="#">view</a>
<a href="#">ATR</a>	p.I1851V	3	142217446	142217446	37	Missense_Mutation	SNP	T	C		uc003eux.3		<a href="#">view</a>
<a href="#">ATR</a>	p.T1798A	3	142217605	142217605	37	Missense_Mutation	SNP	T	C		uc003eux.3		<a href="#">view</a>
<a href="#">ATRX</a>	p.L629R	X	76938862	76938862	37	Missense_Mutation	SNP	A	C		uc004ecp.3	ATRX_uc004ecq.3...	<a href="#">view</a>
<a href="#">AURKA</a>	p.T333I	20	54945572	54945572	37	Missense_Mutation	SNP	G	A		uc002xxd.1	AURKA_uc002xxe....	<a href="#">view</a>
<a href="#">AURKA</a>	p.S10P	20	54963226	54963226	37	Missense_Mutation	SNP	A	G		uc002xxd.1	AURKA_uc002xxe....	<a href="#">view</a>
<a href="#">AURKC</a>		19	57742445	57742445	37	5'UTR	SNP	G	A		uc002qoe.2	AURKC_uc002qoc....	<a href="#">view</a>
<a href="#">AURKC</a>	p.G17C	19	57742665	57742665	37	Missense_Mutation	SNP	G	T		uc002qoe.2	AURKC_uc002qoc....	<a href="#">view</a>
<a href="#">AXIN1</a>	p.L396M	16	354372	354372	37	Missense_Mutation	SNP	G	T	rs34440193	uc002cgp.1	AXIN1_uc002cgp....	<a href="#">view</a>
<a href="#">AXIN1</a>		16	397059	397059	37	5'UTR	SNP	G	A		uc002cgp.1	AXIN1_uc002cgp....	<a href="#">view</a>
<a href="#">AXIN1</a>		16	397074	397074	37	5'UTR	SNP	A	T		uc002cgp.1	AXIN1_uc002cgp....	<a href="#">view</a>
<a href="#">AXL</a>	p.L693P	19	41762398	41762398	37	Missense_Mutation	SNP	T	C		uc010ehj.2	CYP2F1_uc010xvw...	<a href="#">view</a>
<a href="#">BAI3</a>	p.Y193H	6	69349144	69349144	37	Missense_Mutation	SNP	T	C		uc003pev.3	BAI3_uc010kak.2...	<a href="#">view</a>
<a href="#">BAP1</a>	p.T517M	3	52437611	52437611	37	Missense_Mutation	SNP	G	A		uc003ddx.2	BAP1_uc003ddw.2...	<a href="#">view</a>

<a href="#">BCL2L11</a>		2	111921910	111921910	37	3'UTR	SNP	G	A		uc002tg.1	BCL2L11_uc002tg...	<a href="#">view</a>
<a href="#">BCL9</a>	p.R1363Q	1	147096567	147096567	37	Missense_Mutation	SNP	G	A		uc001epg.2	BCL9_uc010ozr.1...	<a href="#">view</a>
<a href="#">BCR</a>		22	23632777	23632778	37	Intron	Ins	-	T		uc002zww.2	BCR_uc002zww.2_...	
<a href="#">BCR</a>		22	23631813	23631814	37	Intron	Ins	-	C	rs66503844	uc002zww.2	BCR_uc002zww.2_...	
<a href="#">BIRC3</a>	p.D201Y	11	102195841	102195841	37	Missense_Mutation	SNP	G	T		uc001pgx.2		<a href="#">view</a>
<a href="#">BIRC6</a>	p.P3477H	2	32738083	32738083	37	Missense_Mutation	SNP	C	A		uc010ezu.2		<a href="#">view</a>
<a href="#">BLNK</a>	p.R148K	10	97983664	97983664	37	Missense_Mutation	SNP	C	T		uc001kls.3	BLNK_uc001kme.3...	<a href="#">view</a>
<a href="#">BLNK</a>	p.P143H	10	97983679	97983679	37	Missense_Mutation	SNP	G	T		uc001kls.3	BLNK_uc001kme.3...	<a href="#">view</a>
<a href="#">BMF</a>		15	40383876	40383876	37	3'UTR	SNP	A	G		uc001zkv.2	BMF_uc001zkt.2_...	<a href="#">view</a>
<a href="#">BMP2K</a>		4	79800197	79800197	37	Intron	SNP	T	A		uc003hlk.2	BMP2K_uc003hjlj...	<a href="#">view</a>
<a href="#">BMP2K</a>	p.H1075Q	4	79832926	79832926	37	Missense_Mutation	SNP	T	G		uc003hlk.2	PAQR3_uc003hlm...	<a href="#">view</a>
<a href="#">BMPR2</a>	p.R211*	2	203383554	203383554	37	Nonsense_Mutation	SNP	C	T		uc002uzf.3	BMPR2_uc010ftr...	<a href="#">view</a>
<a href="#">BMX</a>	p.W649*	X	15568114	15568114	37	Nonsense_Mutation	SNP	G	A		uc004cww.2	BMX_uc004cwx.3_...	<a href="#">view</a>
<a href="#">BRCA1</a>	p.P1190H	17	41243979	41243979	37	Missense_Mutation	SNP	G	T		uc002ict.2	BRCA1_uc010whp...	<a href="#">view</a>
<a href="#">BRCA2</a>	p.C1200fs	13	32912090	32912091	37	Frame_Shift_Del	Del	TG	-	rs80358607	uc001uub.1		
<a href="#">BRCA2</a>	p.Q1782fs	13	32913837	32913837	37	Frame_Shift_Del	Del	A	-		uc001uub.1		
<a href="#">BRCA2</a>	p.R2784Q	13	32944558	32944558	37	Missense_Mutation	SNP	G	A	rs80359076	uc001uub.1		<a href="#">view</a>
<a href="#">BRD3</a>	p.P299S	9	136913396	136913396	37	Missense_Mutation	SNP	G	A		uc004cew.2	BRD3_uc004cex.2...	<a href="#">view</a>

