



COLON CANCER PANELS 1 AND 2

Colon Cancer Panel 1, KRAS (ATCC® No. TCP-1006™) is comprised of eight colon cancer cell lines. Seven of the eight cell lines carry a KRAS mutation as well as other mutations with varying degrees of genetic complexity.

Colon Cancer Panel 2, BRAF (ATCC® No. TCP-1007™) is comprised of eight colon cancer cell lines. Six of the eight cell lines carry a BRAF mutation in addition to mutations in other genes. The table below provides more information for the cell lines included in each panel.

	ATCC® No.	Name	Primary Site, Tissue	Histology	Tumor Source	Mutant Gene	Zygosity	Gene Sequence	Protein Sequence
Colon Cancer Panel 1, KRAS (ATCC® No. TCP-1006™)	CRL-5972™	SNU-C1	Colon	Adenocarcinoma	metastasis, peritoneum	TP53	homozygous	c.497C>A	p.S166*
	HTB-39™	SK-CO-1	Colon	Adenocarcinoma	metastasis, ascites	APC	heterozygous	c.3266delT	p.F1089fs*37
						APC	heterozygous	c.4328delC	p.P1443fs*30
						KRAS	homozygous	c.35G>T	p.G12V
	CCL-233™	SW1116	Colon	Adenocarcinoma	primary	APC	heterozygous	c.4287_4296delAACCATGCCA	p.Q1429fs*41
						APC	heterozygous	c.790C>T	p.Q264*
						KRAS	heterozygous	c.35G>C	p.G12A
						TP53	homozygous	c.476C>A	p.A159D
	CCL-237™	SW948	Colon	Adenocarcinoma	primary	APC	heterozygous	c.3340C>T	p.R1114*
						APC	heterozygous	c.4285C>T	p.Q1429*
						KRAS	heterozygous	c.182A>T	p.Q61L
						PIK3CA	heterozygous	c.1624G>A	p.E542K
	CCL-248™	T84	Colon	Carcinoma	metastasis, lung	APC	homozygous	c.4464delA	p.L1488fs*19
						KRAS	heterozygous	c.38G>A	p.G13D
						PIK3CA	heterozygous	c.1624G>A	p.E542K
						TP53	homozygous	c.376-1G>T	p.?
	CCL-255™	LS123	Colon	Adenocarcinoma	primary	APC	heterozygous	c.1873C>T	p.Q625*
						APC	heterozygous	c.4348C>T	p.R1450*
						KRAS	heterozygous	c.34G>A	p.G12S
						SMAD4	homozygous	c.988G>T	p.E330*
						TP53	heterozygous	c.524G>A	p.R175H

	ATCC® No.	Name	Primary Site, Tissue	Histology	Tumor Source	Mutant Gene	Zygosity	Gene Sequence	Protein Sequence
ATCC® No. TCP-1006™, continued	CCL-229™	LoVo	Colon	Adenocarcinoma	metastasis, lymph node	APC	heterozygous	c.3340C>T	p.R1114*
						APC	heterozygous	c.4290delC	p.M1431fs*42
						FBXW7	heterozygous	c.1513C>T	p.R505C
						KRAS	heterozygous	c.38G>A	p.G13D
						MSH2	homozygous	c.1077_1386del310	p.?
	CCL-235™	SW837	Rectum	Adenocarcinoma	primary	APC	heterozygous	c.4348C>T	p.R1450*
						APC	heterozygous	c.637C>T	p.R213*
						FAM123B	homozygous	c.1489C>T	p.R497*
						FBXW7	homozygous	c.1205_1206insT	p.L403fs*34
						KRAS	heterozygous	c.34G>T	p.G12C
						TP53	homozygous	c.742C>T	p.R248W

	ATCC® No.	Name	Primary Site, Tissue	Histology	Tumor Source	Mutant Gene	Zygosity	Gene Sequence	Protein Sequence
Colon Cancer Panel 2, BRAF (ATCC® No. TCP-1007™)	CRL-5972™	SNU-C1	Colon	Adenocarcinoma	metastasis, peritoneum	TP53	homozygous	c.497C>A	p.S166*
	CCL-231™	SW48	Colon	Adenocarcinoma	primary	CTNNB1	heterozygous	c.98C>A	p.S33Y
						EGFR	heterozygous	c.2155G>A	p.G719S
						FBXW7	heterozygous	c.2001delG	p.S668fs*39
	CRL-2577™	RKO	Colon	Carcinoma	primary	BRAF	heterozygous	c.1799T>A	p.V600E
						NF1	heterozygous	c.1882delT	p.Y628fs*3
						NF1	heterozygous	c.7022delA	p.N2341fs*5
						PIK3CA	heterozygous	c.3140A>G	p.H1047R
	CCL-222™	COLO 205	Colorectal, colon	Adenocarcinoma	metastasis, ascites	APC	homozygous	c.4666_4667insA	p.T1556fs*3
						BRAF	heterozygous	c.1799T>A	p.V600E
						SMAD4	homozygous	c.1_667del667	p.?
						TP53	homozygous	c.308_333>TA	p.Y103_L111>L
	CCL-238™	SW1417	Colon	Adenocarcinoma	primary	APC	homozygous	c.4348C>T	p.R1450*
						BRAF	heterozygous	c.1799T>A	p.V600E
						PIK3R1	homozygous	c.1_2175del2175	p.O?
						TP53	homozygous	c.712_725delTGTAACAGTTCCTG	p.C238fs*21

The mutation data was obtained from the Sanger Institute Catalogue Of Somatic Mutations In Cancer web site, <http://www.sanger.ac.uk/cosmic> Bamford et al (2004) The COSMIC (Catalogue of Somatic Mutations in Cancer) database and website. Br J Cancer, 91,355-358. ATCC and The Sanger Institute provide these data in good faith, but make no warranty, express or implied, nor assumes any legal liability or responsibility for any purpose for which the data are used. The ATCC trademark and trade name, any and all ATCC catalog numbers, and any other trademarks listed are trademarks of the American Type Culture Collection unless indicated otherwise. ATCC products are intended for laboratory research only. They are not intended for use in humans, animals or diagnostics.

	ATCC [®] No.	Name	Primary Site, Tissue	Histology	Tumor Source	Mutant Gene	Zygosity	Gene Sequence	Protein Sequence
ATCC [®] No. TCP-1007™, continued	CRL-2159™	LS411N	Colorectal, caecum	Carcinoma	primary	APC	heterozygous	c.2365C>T	p.Q789*
						APC	heterozygous	c.4666_4667insA	p.T1556fs*3
						BRAF	homozygous	c.1799T>A	p.V600E
						FBXW7	heterozygous	c.1514G>A	p.R505H
						TP53	heterozygous	c.378C>A	p.Y126*
	CCL-253™	NCI-H508	Caecum	Adenocarcinoma	metastasis, abdominal wall	BRAF	heterozygous	c.1786G>C	p.G596R
						PIK3CA	heterozygous	c.1633G>A	p.E545K
						TP53	homozygous	c.818G>A	p.R273H
	HTB-38™	HT-29	Colorectal, colon	Carcinoma	primary	APC	heterozygous	c.2557G>T	p.E853*
						APC	heterozygous	c.4666_4667insA	p.T1556fs*3
						BRAF	heterozygous	c.1799T>A	p.V600E
						PIK3CA	heterozygous	c.1345C>A	p.P449T
						SMAD4	homozygous	c.931C>T	p.Q311*
						TP53	homozygous	c.818G>A	p.R273H

The mutation data was obtained from the Sanger Institute Catalogue Of Somatic Mutations In Cancer web site, <http://www.sanger.ac.uk/cosmic> Bamford et al (2004) The COSMIC (Catalogue of Somatic Mutations in Cancer) database and website. Br J Cancer, 91,355-358. ATCC and The Sanger Institute provide these data in good faith, but make no warranty, express or implied, nor assumes any legal liability or responsibility for any purpose for which the data are used. The ATCC trademark and trade name, any and all ATCC catalog numbers, and any other trademarks listed are trademarks of the American Type Culture Collection unless indicated otherwise. ATCC products are intended for laboratory research only. They are not intended for use in humans, animals or diagnostics.