

# CELL PANEL

## COLON CANCER PANELS 1 AND 2

Colon Cancer Panel 1, KRAS (ATCC® **TCP-1006™**) is composed 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® **TCP-1007™**) is composed 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	Zygoty	Gene Sequence	Protein Sequence
<a href="#">CRL-5972™</a>	SNU-C1	Colon	Adenocarcinoma	metastasis, peritoneum	TP3	homozygous	c.497C>A	p.S166*
<a href="#">HTB-39™</a>	SK-CO-1	Colon	Adenocarcinoma	metastasis, ascites	APC APC KRAS	heterozygous heterozygous homozygous	c.3266delT c.4328delC c.35G>T	p.F1089fs*37 p.P1443fs*30 p.G12V
<a href="#">CCL-233™</a>	SW1116	Colon	Adenocarcinoma	primary	APC  APC KRAS TP53	heterozygous  heterozygous heterozygous homozygous	c.4287_4296delAAC-CATGCCA  c.790C>T c.35G>C c.476C>A	p.Q1429fs*41  p.Q264* p.G12A p.A159D
<a href="#">CCL-237™</a>	SW948	Colon	Adenocarcinoma	primary	APC APC KRAS PIK3CA	heterozygous heterozygous heterozygous heterozygous	c.3340C>T c.4285C>T c.182A>T c.1624G>A	p.R1114* p.Q1429* p.Q61L p.E542K
<a href="#">CCL-248™</a>	T84	Colon	Carcinoma	metastasis, lung	APC KRAS PIK3CA TP53	homozygous heterozygous heterozygous homozygous	c.4464delA c.38G>A c.1624G>A c.376-1G>T	p.L1488fs*19 p.G13D p.E542K p.?
<a href="#">CCL-255™</a>	LS123	Colon	Adenocarcinoma	primary	APC APC KRAS SMAD4 TP53	heterozygous heterozygous heterozygous homozygous heterozygous	c.1873C>T c.4348C>T c.34G>A c.988G>T c.524G>A	p.Q625* p.R1450* p.G12S p.E330* p.R175H
<a href="#">CCL-229™</a>	LoVo	Colon	Adenocarcinoma	metastasis, lymph node	APC APC FBXW7 KRAS MSH2	heterozygous heterozygous heterozygous heterozygous homozygous	c.3340C>T c.4290delC c.1513C>T c.38G>A c.1077_1386del310	p.R1114* p.M1431fs*42 p.R505C p.G13D p.?
<a href="#">CCL-235™</a>	SW837	Rectum	Adenocarcinoma	primary	APC APC FAM123B FBXW7 KRAS TP53	heterozygous heterozygous homozygous homozygous heterozygous homozygous	c.4348C>T c.637C>T c.1489C>T c.1205_1206insT c.34G>T c.742C>T	p.R1450* p.R213* p.R497* p.L403fs*34 p.G12C p.R248W

Colon Cancer Panel 1, KRAS (ATCC® **TCP-1006™**)

ATCC® No.	Name	Primary Site, Tissue	Histology	Tumor Source	Mutant Gene	Zygoty	Gene Sequence	Protein Sequence
<u>CRL-5972™</u>	SNU-C1	Colon	Adenocarcinoma	metastasis, peritoneum	TP53	homozygous	c.497C>A	p.S166*
<u>CCL-231™</u>	SW48	Colon	Adenocarcinoma	primary	CTNNB1 EGFR FBXW7	heterozygous heterozygous heterozygous	c.98C>A c.2155G>A c.2001delG	p.S33Y p.G719S p.S668fs*39
<u>CRL-2577™</u>	RKO	Colon	Carcinoma	primary	BRAF NF1 NF1 PIK3CA	heterozygous heterozygous heterozygous heterozygous	c.1799T>A c.1882delT c.7022delA c.3140A>G	p.V600E p.Y628fs*3 p.N2341fs*5 p.H1047R
<u>CCL-222™</u>	COLO 205	Colorectal, colon	Adenocarcinoma	metastasis, ascites	APC BRAF SMAD4 TP53	homozygous heterozygous homozygous homozygous	c.4666_4667insA c.1799T>A c.1_667del667 c.308_333>TA	p.T1556fs*3 p.V600E p.? p.Y103_L111>L
<u>CRL-238™</u>	SW1417	Colon	Adenocarcinoma	primary	APC BRAF PIK3R1 TP53	homozygous heterozygous homozygous homozygous	c.4348C>T c.1799T>A c.1_2175del2175 c.712_725delTGTAACAGTTCCTG	p.R1450* p.V600E p.0? p.C238fs*21
<u>CRL-2159™</u>	LS411N	Colorectal, caecum	Carcinoma	primary	APC APC BRAF FBXW7 TP53	heterozygous heterozygous homozygous heterozygous heterozygous	c.2365C>T c.4666_4667insA c.1799T>A c.1514G>A c.378C>A	p.Q789* p.T1556fs*3 p.V600E p.R505H p.Y126*
<u>CCL-253™</u>	NCI-H508	Caecum	Adenocarcinoma	metastasis, abdominal wall	BRAF PIK3CA TP53	heterozygous heterozygous homozygous	c.1786G>C c.1633G>A c.818G>A	p.G596R p.E545K p.R273H
<u>HTB-38™</u>	HT-29	Colorectal, colon	Carcinoma	primary	APC APC BRAF PIK3CA SMAD4 TP53	heterozygous heterozygous heterozygous heterozygous homozygous homozygous	c.2557G>T c.4666_4667insA c.1799T>A c.1345C>A c.931C>T c.818G>A	p.E853* p.T1556fs*3 p.V600E p.P449T p.Q311* p.R273H

Colon Cancer Panel 2, BRAF (ATCC® TCP-1007™)

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.

10801 University Boulevard  
Manassas, Virginia 20110-2209

 703.365.2700

 703.365.2701

 [sales@atcc.org](mailto:sales@atcc.org)

 [www.atcc.org](http://www.atcc.org)

CB-122021-v02

©2022 American Type Culture Collection. The ATCC trademark and trade name, and any other trademarks listed in this publication are trademarks owned by the American Type Culture Collection unless indicated otherwise.

These products are for laboratory use only. Not for human or diagnostic use. ATCC products may not be resold, modified for resale, used to provide commercial services or to manufacture commercial products without prior ATCC written approval.