THE ESSENTIALS OF
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LIVER CANCER PANEL

The Liver Cancer Panel (**ATCC® No. TCP-1011™**) is comprised of seven liver cancer cell lines with varying degrees of genetic complexity. They have genomic mutations in one or more of the following genes according to the Sanger COSMIC database: BRAF, CDKN2A, CTNNB1, NRAS, STK11, and TP53. The table below provides more information for the cell lines included in this panel.

ATCC® No.	Name	Histology	Tumor Source	Mutant Gene	Zygosity	Gene Sequence	Protein Sequence
CRL-2236™	SNU-475	Hepatocellular carcinoma	primary	TP53	heterozygous	c.715A>G	p.N239D
				TP53	heterozygous	c.785G>A	p.G262D
CRL-10741™	C3A	Hepatocellular carcinoma	primary	CTNNB1	homozygous	c.14_241del228	p.A5_A80del
				NRAS	heterozygous	c.182A>T	p.Q61L
CRL-2234™	SNU-449	Hepatocellular carcinoma	primary	CDKN2A	homozygous	c.1_471del471	p.0?
				TP53	homozygous	c.481G>A	p.A161T
CRL-8024™	PLC/PRF/5	Hepatocellular carcinoma	primary	CDKN2A	homozygous	c.334C>G	p.R112G
				STK11	homozygous	c.580G>A	p.D194N
				TP53	homozygous	c.747G>T	p.R249S
CRL-2237™	SNU-387	Pleomorphic hepatocellular carcinoma	primary	CDKN2A	homozygous	c.1_471del471	p.0?
				NRAS	heterozygous	c.181C>A	p.Q61K
				TP53	homozygous	c.490A>T	p.K164*
HTB-52™	SK-HEP-1	Adenocarcinoma	metastasis, ascites	BRAF	heterozygous	c.1799T>A	p.V600E
				CDKN2A	homozygous	c.1_471del471	p.0?
CRL-2238™	SNU-423	Pleomorphic hepatocellular carcinoma	primary	N/D			

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.