



LUNG CANCER PANEL

Lung Cancer Panel (ATCC® No. TCP-1016™) is comprised of seven lung cancer cell lines. They have genomic mutations in one or more of the following genes according to the Sanger COSMIC database: CDKN2A, EGFR, KRAS, NRAS, PIK3CA, PIK3R1, SMARCA4, 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-5803™	NCI-H1299	Large cell carcinoma	metastasis, lymph node	NRAS	heterozygous	c.181C>A	p.Q61K
CRL-5875™	NCI-H1563	Non-small-cell lung carcinoma (NSCLC)	primary	CDKN2A	homozygous	c.1_471del471	p.0?
CRL-5872™	NCI-H1437	Non-small-cell lung carcinoma (NSCLC)	metastasis, pleural effusion	CDKN2A	homozygous	c.1_471del471	p.0?
				TP53	homozygous	c.800G>C	p.R267P
HTB-183™	NCI-H661	Large cell carcinoma	metastasis, lymph node	CDKN2A	homozygous	c.457+1G>T	p.?
				SMARCA4	homozygous	c.3480delG	p.L1161fs*3
				TP53	homozygous	c.473G>T	p.R158L
				TP53	heterozygous	c.644G>T	p.S215I
CCL-256™	NCI-H2126	Non-small-cell lung carcinoma (NSCLC)	metastasis, pleural effusion	CDKN2A	homozygous	c.1_471del471	p.0?
				STK11	homozygous	c.465_862del398	p.?
				TP53	homozygous	c.184G>T	p.E62*
CRL-5877™	NCI-H1573	Adenocarcinoma	metastasis, soft tissue	KRAS	heterozygous	c.35G>C	p.G12A
				PIK3R1	heterozygous	c.211G>T	p.G71*
				SMARCA4	homozygous	c.4195G>T	p.E1399*
				TP53	homozygous	c.743G>T	p.R248L
CRL-5908™	NCI-H1975	Non-small-cell lung carcinoma (NSCLC)	primary	CDKN2A	homozygous	c.205G>T	p.E69*
				EGFR	heterozygous	c.2369C>T	p.T790M
				EGFR	heterozygous	c.2573T>G	p.L858R
				PIK3CA	heterozygous	c.353G>A	p.G118D
				TP53	homozygous	c.818G>A	p.R273H