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## **UTERINE CANCER CELL PANEL**

The Uterine Cancer Cell Panel (ATCC® No. TCP-1023™) is comprised of 5 uterine tumor 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: CDKN2A, APC, PIK3, PTEN, RB1, FBXW7, MAP2K4, BRCA, HRAS, NF2, and TP53. The table below provides more information for the cell lines included in this panel.

ATCC® No.	Name	Tissue	Histology	Tumor Source	Mutant Gene	Zygosity	Gene Sequence	Protein Sequence
<u>CRL-1976</u> ™	MES-SA	uterus	uterine sarcoma	primary	CDKN2A	homozygous	c.1_471del471	p.0?
<u>HTB-114</u> ™	SK-UT-1	uterus	leiomyosarcoma	primary	APC	heterozygous	c.3286C>T	p.Q1096*
					APC	heterozygous	c.4666delA	p.T1556fs*9
					PIK3CA	heterozygous	c.263G>A	p.R88Q
					PTEN	heterozygous	c.955_958delACTT	p.T319fs*1
					PTEN	heterozygous	c.968_969insA	p.N323fs*2
					RB1	homozygous	c.1959delA	p.V654fs*4
					TP53	heterozygous	c.524G>A	p.R175H
					TP53	heterozygous	c.743G>A	p.R248Q
<u>CRL-1622</u> ™	KLE	endometrium	adenocarcinoma	primary	FBXW7	heterozygous	c.1436G>A	p.R479Q
					MAP2K4	homozygous	c.1_218del218	p.?
					TP53	homozygous	c.524G>A	p.R175H
<u>HTB-111</u> ™	AN3-CA	endometrium	adenocarcinoma	metastasis	FBXW7	heterozygous	c.1321C>T	p.R441W
					PIK3R1	heterozygous	c.1670_1681delGAGAAATTGACA	p.R557_K561>Q
					PTEN	homozygous	c.389delG	p.R130fs*4
					TP53	heterozygous	c.1165G>T	p.G389W
					TP53	heterozygous	c.267delC	p.S90fs*33
					TP53	heterozygous	c.638G>A	p.R213Q
<u>CRL-1671</u> ™	RL95-2	endometrium	carcinoma	primary	BRCA2	heterozygous	c.4285_4286insT	p.Q1429fs*9
					BRCA2	heterozygous	c.5465_5466insA	p.N1822fs*2
					HRAS	heterozygous	c.183G>T	p.Q61H
					NF2	heterozygous	c.1084C>T	p.Q362*
					NF2	heterozygous	c.514delA	p.R172fs*2

The mutation data was obtained from the Sanger Institute Catalogue Of Somatic Mutations In Cancer web site, <a href="http://www.sanger.ac.uk/cosmic">http://www.sanger.ac.uk/cosmic</a> 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	Tissue	Histology	Tumor Source	Mutant Gene	Zygosity	Gene Sequence	Protein Sequence
					PTEN	heterozygous	c.968_969insA	p.N323fs*2
					PTEN	heterozygous	c.968delA	p.N323fs*21
					TP53	heterozygous	c.216delC	p.V73fs*50
					TP53	heterozygous	c.652_654delGTG	p.V218del

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