

The Jacket cell model originates from an adenocarcinoma of the lung.



<i>PRODUCT NAME</i>	<i>CATALOG NUMBER</i>	<i>SIZE</i>
Jacket Lung Cell Model	CB-0301	1 Million Cells per Cryovial



CELL LINE CHARACTERIZATION

STR PROFILE

AMEL	X	D7S820	8, 10
CSF1PO	11	D8S1179	12
D13S317	13	FGA	23
D16S539	12	Penta D	9
D18S51	17	Penta E	7
D21S11	28	TH01	9
D3S1358	15	TPOX	11
D5S818	12	vWA	14

GENE MUTATIONS

Gene	Alteration	Frequency (%)	Exon	Result
Androgen Receptor	F814V	100	6	Mutated, Presumed Pathogenic
KRAS	G12A	100	2	Mutated, Pathogenic
MSH6	G477S	32	4	Mutated, Variant of Unknown Significance
MUTYH	V493M	62	15	Mutated, Variant of Unknown Significance
TP53	S215G	100	6	Mutated, Presumed Pathogenic

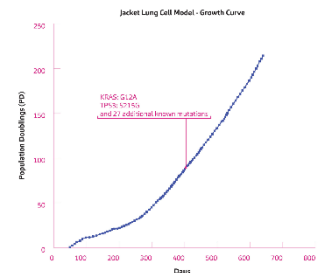


PATIENT PROFILE

Disease Area	Cancer	TNM Stage	T2aN0MX
Tissue Type	Lung	Staging Group	IB
Clinical Diagnosis	Adenocarcinoma of the lung	Medications	Ibuprofen
Age	70-74	Mutations	AR:F814V, KRAS:G12A, MSH6:G477S, MUTYH:V493M, TP53:S215G
Sex	Male	Country of Collection	United States
Ethnicity	Caucasian	Year of Origin	2013
BMI	24.8		

JACKET GROWTH CHARACTERISTICS

The historical growth curve of Jacket demonstrates consistent growth and highlights the lack of cell crisis. This graph also demonstrates that it is a continuous cell line, which was accomplished without genetic engineering.



CELL LINE PROTOCOL

See <https://www.cellariabio.com/product/jacket-cell-model/> for detailed Protocol

Thawing and Plating Instructions: See Certificate of Analysis for lot-specific details

STORAGE AND SAFETY

Storage and Stability: Store frozen in liquid nitrogen.

Quality Control: All lots are tested for microbial and viral contamination, cell line cross-contamination, mycoplasma, and consistent growth capabilities. See Certificate of Analysis for further details.