

HCC366 | 302155

General information

Description	HCC366 is a cell line derived from a patient with non-small cell lung carcinoma (NSCLC). It is characterized by a TP53 p.Tyr220Cys gain-of-function mutation and is used for research in lung adenocarcinoma biology, chemotherapy sensitivity, and biomarker discovery.
Organism	Human
Tissue	Lung
Disease	Non-small cell lung carcinoma (NSCLC)
Metastatic site	Malignant pleural effusion (site of sample collection)
Applications	NSCLC research; lung adenocarcinoma biology; TP53 p.Tyr220Cys gain-of-function studies; ATM DNA damage response; chemotherapy sensitivity (cisplatin, paclitaxel, gemcitabine); DepMap/CCLL drug sensitivity profiling; biomarker discovery; NSCLC comparative genomics; malignant pleural disease biology
Synonyms	HCC-366, HCC0366, HCC0366, HCC366, HCC366, HCC366

Cell characteristics

Age	80 years
Gender	Male
Ethnicity	White
Morphology	Epithelial-like
Cell type	Epithelial cells
Growth properties	Adherent, epithelial

References and safety

Citation	HCC366 (ATCC CCL-222) 302155
Biosafety level	1

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NCBI_TaxID 9606

CellosaurusAccession CVCL_2059

GMO Status No genetic modification; wildtype NSCLC cell line with endogenous somatic mutations (TP53 p.Tyr220Cys homozygous; ATM p.Pro534Ala heterozygous)

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MSI-status MSS

Mutational profile TP53 p.Tyr220Cys (c.659A>G) Homozygous; ATM p.Pro534Ala (c.1600C>G) Heterozygous

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Culture Medium RPMI 1640 2.0 XXXXX XXXXX XXXXXXXXXXXX XXXXXXXXXXXX 2.0 X/XXX NaHCO3 (XXXX XXXXXXXXXXXX 820700a XX XXXXXXXXXXXX)

Supplements XXXXX 10% XX FBS XXXXXXXXXXXX XXX XXXXX

Dissociation Reagent XXXXXX

Doubling time approx. 60 to 70 hours

Subculturing XX XXXXXXX XXXXX XXXXXXX XX XXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX PBS XXXXX XXXXX XXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX

Split ratio 1 to 5

Seeding density 1 to 3 × 10⁴ cells/cm²

Fluid renewal 2 to 3 times per week

Post-Thaw Recovery After thawing, plate the cells at 5 × 10⁴ cells/cm² and allow at least 24 hours for adherence before the first medium change.

Freeze medium XXXXX XXXXX XXXXXXXXXXXX XXXXXXX XXX XXX XXXX (XXXX XX XXX FBS) + 10% DMSO XX XXX XXXXXXX XXX XXXXXXX XXXXXXX XXX XXXXXXX XXXXXXX XXXXXXX XXXXXXX

