

Resource Summary Report

Generated by [NIF](#) on Aug 3, 2026

Huh-7.5.1

RRID:CVCL_E049

Type: Cell Line

Proper Citation

RRID:CVCL_E049

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_E049

Proper Citation: RRID:CVCL_E049

Description: Cell line Huh-7.5.1 is a Cancer cell line with a species of origin Homo sapiens (Human)

Sex: Male

Disease: Adult hepatocellular carcinoma

Defining Citation: [PMID:15939869](#), [PMID:23285155](#), [PMID:25420655](#)

Comments: Virology: Compared to the parent Huh-7 cell line, permits improved hepatitis C virus (HCV) production when infected with strain JFH-1., Population: Japanese.

Category: Cancer cell line

Organism: Homo sapiens (Human)

Name: Huh-7.5.1

Synonyms: Huh 7.5.1, Huh7.5.1

Cross References: BTO:BTO_0005463, BioGRID_ORCS_Cell_line:735, cancercellines:CVCL_E049, CCTCC:GDC0137, ChEMBL-Cells:ChEMBL4483152, ChEMBL-Targets:ChEMBL4483247, PubChem_Cell_line:CVCL_E049, Wikidata:Q54896857

ID: CVCL_E049

Hierarchy: cvcl_7927

Record Creation Time: 20220427T220622+0000

Ratings and Alerts

No rating or validation information has been found for Huh-7.5.1.

No alerts have been found for Huh-7.5.1.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 329 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Thomas BJ, et al. (2025) DUSP11 is an Intracellular Innate Immune Checkpoint in Lung Adenocarcinoma. Cancer immunology research, 13(11), 1798.

Lee WP, et al. (2024) Ser38-His93-Asn91 triad confers resistance of JFH1 HCV NS5A-Y93H variant to NS5A inhibitors. The FEBS journal, 291(6), 1264.

Saito AC, et al. (2024) Protocol for establishing knockout cell clones by deletion of a large gene fragment using CRISPR-Cas9 with multiple guide RNAs. STAR protocols, 5(3), 103179.

Remesh SG, et al. (2023) Computational pipeline provides mechanistic understanding of Omicron variant of concern neutralizing engineered ACE2 receptor traps. Structure (London, England : 1993), 31(3), 253.

Venet M, et al. (2023) Severe COVID-19 patients have impaired plasmacytoid dendritic cell-mediated control of SARS-CoV-2. Nature communications, 14(1), 694.

Zhang D, et al. (2023) Mutagenesis and structural studies reveal the basis for the specific binding of SARS-CoV-2 SL3 RNA element with human TIA1 protein. Nature communications, 14(1), 3715.

Bastard P, et al. (2023) Vaccine breakthrough hypoxemic COVID-19 pneumonia in patients with auto-Abs neutralizing type I IFNs. Science immunology, 8(90), eabp8966.

Niu B, et al. (2023) LncRNA AC040162.3 Promotes HCV-Induced T2DM Deterioration through the miRNA-223-3p/NLRP3 Molecular Axis. Analytical cellular pathology (Amsterdam), 2023, 5350999.

Kelch MA, et al. (2023) Machine learning on large scale perturbation screens for SARS-CoV-2 host factors identifies β -catenin/CBP inhibitor PRI-724 as a potent antiviral. Frontiers in microbiology, 14, 1193320.

- Liu D, et al. (2023) Mechanisms of Action of the Host-Targeting Agent Cyclosporin A and Direct-Acting Antiviral Agents against Hepatitis C Virus. *Viruses*, 15(4).
- Weber T, et al. (2022) Analysis of antibodies from HCV elite neutralizers identifies genetic determinants of broad neutralization. *Immunity*, 55(2), 341.
- Shirasago Y, et al. (2022) A single mutation in the E2 glycoprotein of hepatitis C virus broadens the claudin specificity for its infection. *Scientific reports*, 12(1), 20243.
- Liu Y, et al. (2022) Regulatory elements can be essential for maintaining broad chromatin organization and cell viability. *Nucleic acids research*, 50(8), 4340.
- Li Q, et al. (2022) MxB Disrupts Hepatitis C Virus NS5A-CypA Complex: Insights From a Combined Theoretical and Experimental Approach. *Frontiers in microbiology*, 13, 849084.
- Yousefi M, et al. (2022) TMEM41B and VMP1 modulate cellular lipid and energy metabolism for facilitating dengue virus infection. *PLoS pathogens*, 18(8), e1010763.
- Biering SB, et al. (2022) Genome-wide bidirectional CRISPR screens identify mucins as host factors modulating SARS-CoV-2 infection. *Nature genetics*, 54(8), 1078.
- Zhou JN, et al. (2022) A Functional Screening Identifies a New Organic Selenium Compound Targeting Cancer Stem Cells: Role of c-Myc Transcription Activity Inhibition in Liver Cancer. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 9(22), e2201166.
- Zhang S, et al. (2022) Comparison of viral RNA-host protein interactomes across pathogenic RNA viruses informs rapid antiviral drug discovery for SARS-CoV-2. *Cell research*, 32(1), 9.
- Sabatino JJ, et al. (2022) Multiple sclerosis therapies differentially affect SARS-CoV-2 vaccine-induced antibody and T cell immunity and function. *JCI insight*, 7(4).
- Reinecke B, et al. (2022) The Human Liver-Expressed Lectin CD302 Restricts Hepatitis C Virus Infection. *Journal of virology*, 96(7), e0199521.