Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 2, 2025

U-87MG ATCC

RRID:CVCL_0022
Type: Cell Line

Proper Citation

(RRID:CVCL_0022)

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0022

Proper Citation: (RRID:CVCL_0022)

Sex: Male

Defining Citation: PMID:327080, PMID:450131, PMID:833871, PMID:3518877, PMID:7459858, PMID:7763724, PMID:8069455, PMID:9090379, PMID:9230885, PMID:9842975, PMID:10074188, PMID:10402232, PMID:10416987, PMID:10560660, PMID:11414198, PMID:11416159, PMID:11966317, PMID:14614447, PMID:14655754, PMID:14961077, PMID:16232199, PMID:16697959, PMID:17595512, PMID:19365568, PMID:19435942, PMID:20126413, PMID:20164919, PMID:20215515, PMID:20587068, PMID:20593219, PMID:21406405, PMID:22282976, PMID:22460905, PMID:22570425, PMID:23325432, PMID:25877200, PMID:25894527, PMID:25960936, PMID:25984343, PMID:26496030, PMID:26589293, PMID:27397505, PMID:27412690, PMID:27582061, PMID:27894925, PMID:30894373, PMID:30971826, PMID:31068700, PMID:31978347, PMID:33385022

Comments: Omics: Transcriptome analysis by RNAseq., Omics: Transcriptome analysis by microarray., Omics: SNP array analysis., Omics: shRNA library screening., Omics: HLA class I peptidome analysis by proteomics., Omics: Genome sequenced., Omics: DNA methylation analysis., Omics: Deep quantitative proteome analysis., Omics: Deep proteome analysis., Omics: Deep exome analysis., Omics: Deep antibody staining analysis., Omics: CRISPR phenotypic screen., Omics: CNV analysis., Omics: Cell surface proteome., Population: Caucasian., Part of: ENCODE project common cell types; tier 3., Part of: COSMIC cell lines project., Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE)., Problematic cell line: Misidentified. This cell line is not the original glioblastoma cell line established in 1968 at the University of Uppsala. As described in PubMed=27582061 it is most probably also a glioblastoma cell line but whose origin is

unknow. See U-87MG Uppsala (Cellosaurus=CVCL_GP63) for the original U-87MG cell line..

Category: Cancer cell line

Name: U-87MG ATCC

Synonyms: U-87MG, U-87 MG, U87 MG, U-87-MG, U87-MG, U87MG, U-87, U87, 87 MG, 87MG

Cross References: BTO:BTO_0002036, CLO:CLO_0009463, CLO:CLO_0009464, EFO:EFO_0005237, MCCL:MCC:0000469, CLDB:cl4592, CLDB:cl4594, CLDB:cl4595, CLDB:cl7166, Abcam:ab278079, AddexBio:C0005002/71, ArrayExpress:E-MTAB-783, ArrayExpress:E-MTAB-2770, ArrayExpress:E-MTAB-3610, ATCC:HTB-14, BCRC:60360, BCRJ:0241, BEI_Resources:ARP-2188, BioGRID_ORCS_Cell_line:348, BioSample:SAMN03472715, BioSample:SAMN03473126, BioSample:SAMN05292456, BioSample:SAMN07710026, BioSample:SAMN07710027, BioSample:SAMN07710028, BioSample:SAMN07710029, BioSample:SAMN07710030, BioSample:SAMN07710031, BioSample:SAMN07710032, BioSample:SAMN10988360, cancercelllines:CVCL_0022, CCRID:1101HUM-PUMC000208, CCRID:3101HUMTCHu138, CCTCC:GDC0157, Cell_Model_Passport:SIDM01189, CGH-DB:157-1, ChEMBL-Cells:CHEMBL3307575, ChEMBL-Cells:CHEMBL3989361, ChEMBL-Targets:CHEMBL614247, CLS:300367, Cosmic:687590, Cosmic:849853, Cosmic:850741, Cosmic:850822, Cosmic:920816, Cosmic:1036336, Cosmic:1064099, Cosmic:1066234, Cosmic:1171224, Cosmic:1175825, Cosmic:1198263, Cosmic:1217671, Cosmic:1219449, Cosmic:1237542, Cosmic:1294951, Cosmic:1610737, Cosmic:1746951, Cosmic:1945859, Cosmic:2302316, Cosmic:2367555, Cosmic:2491106, Cosmic:2516044, Cosmic:2550364, Cosmic:2568870, Cosmic:2580918, Cosmic:2701083, Cosmic-CLP:687590, DepMap:ACH-000075, ECACC:89081402, EGA:EGAS00001000978, ENCODE:ENCBS424ENC, GDSC:687590, GEO:GSM101687, GEO:GSM101688, GEO:GSM101676, GEO:GSM101686, GEO:GSM326243, GEO:GSM481417, GEO:GSM500897, GEO:GSM887723, GEO:GSM888817, GEO:GSM923437, GEO:GSM1374974, GEO:GSM1638668, GEO:GSM1670559, GEO:GSM2113436, GEO:GSM2113437, GEO:GSM2113438, GEO:GSM2113439, IARC_TP53:21096, IBRC:C10982, ICLC:HTL00013, IZSLER:BS TCL 189, KCB:KCB 2011101YJ, KCLB:30014, LiGeA:CCLE_552, LINCS_HMS:50868, LINCS_LDP:LCL-1364, Lonza:37, Lonza:808, NCBI_Iran:C531, PharmacoDB:U87MG_1623_2019, PRIDE:PXD000589, PRIDE:PXD000661, PRIDE:PXD001565, PRIDE:PXD003790, Progenetix:CVCL_0022, PubChem_Cell_line:CVCL_0022, RCB:RCB0419, TOKU-E:3381, Ubigene:YC-C028, Wikidata:Q7863603

ID: CVCL_0022

Record Creation Time: 20250131T202832+0000

Record Last Update: 20250131T204825+0000

Ratings and Alerts

No rating or validation information has been found for U-87MG ATCC.

Warning: Problematic cell line: Misidentified. This cell line is not the original glioblastoma cell line established in 1968 at the University of Uppsala. As described in PubMed=27582061 it is most probably also a glioblastoma cell line but whose origin is unknow. See U-87MG Uppsala (CVCL_GP63) for the original U-87MG cell line.

Registration: International Cell Line Authentication Committee, Register of Misidentified Cell Lines; ICLAC-00535.
Omics: Transcriptome analysis by RNAseq., Omics: Transcriptome analysis by microarray., Omics: SNP array analysis., Omics: shRNA library screening., Omics: HLA class I peptidome analysis by proteomics., Omics: Genome sequenced., Omics: DNA methylation analysis., Omics: Deep quantitative proteome analysis., Omics: Deep proteome analysis., Omics: Deep exome analysis., Omics: Deep antibody staining analysis., Omics: CRISPR phenotypic screen., Omics: CNV analysis., Omics: Cell surface proteome., Population: Caucasian., Part of: ENCODE project common cell types; tier 3., Part of: COSMIC cell lines project., Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE)., Problematic cell line: Misidentified. This cell line is not the original glioblastoma cell line established in 1968 at the University of Uppsala. As described in PubMed=27582061 it is most probably also a glioblastoma cell line but whose origin is unknow. See U-87MG Uppsala (Cellosaurus=CVCL_GP63) for the original U-87MG cell line.. Warning: Discontinued: RCB; RCB0419
Omics: Transcriptome analysis by RNAseq., Omics: Transcriptome analysis by microarray., Omics: SNP array analysis., Omics: shRNA library screening., Omics: HLA class I peptidome analysis by proteomics., Omics: Genome sequenced., Omics: DNA methylation analysis., Omics: Deep quantitative proteome analysis., Omics: Deep proteome analysis., Omics: Deep exome analysis., Omics: Deep antibody staining analysis., Omics: CRISPR phenotypic screen., Omics: CNV analysis., Omics: Cell surface proteome., Population: Caucasian., Part of: ENCODE project common cell types; tier 3., Part of: COSMIC cell lines project., Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE)., Problematic cell line: Misidentified. This cell line is not the original glioblastoma cell line established in 1968 at the University of Uppsala. As described in PubMed=27582061 it is most probably also a glioblastoma cell line but whose origin is unknow. See U-87MG Uppsala (Cellosaurus=CVCL_GP63) for the original U-87MG cell line..

Data and Source Information

Source: Cellosaurus

Usage and Citation Metrics

We found 3341 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Villani S, et al. (2024) Selective inhibition of indoleamine and tryptophan 2,3-dioxygenases: Comparative study on kynurenine pathway in cell lines via LC-MS/MS-based targeted metabolomics. Journal of pharmaceutical and biomedical analysis, 237, 115750.

Sovilj D, et al. (2024) Cell-specific modulation of mitochondrial respiration and metabolism by the pro-apoptotic Bcl-2 family members Bax and Bak. Apoptosis : an international journal on programmed cell death, 29(3-4), 424.

Kawaai K, et al. (2024) Chordoma cells possess bone-dissolving activity at the bone invasion front. Cellular oncology (Dordrecht, Netherlands), 47(5), 1663.

Lee SY, et al. (2024) Migrasomal autophagosomes relieve endoplasmic reticulum stress in glioblastoma cells. BMC biology, 22(1), 23.

Takaki EO, et al. (2024) A PDE3A-SLFN12 Molecular Glue Exhibits Significant Antitumor Activity in TKI-Resistant Gastrointestinal Stromal Tumors. Clinical cancer research : an official journal of the American Association for Cancer Research, 30(16), 3603.

Prado MB, et al. (2024) Prion protein regulates invasiveness in glioblastoma stem cells. BMC cancer, 24(1), 1539.

Barone TA, et al. (2024) FACT inhibitor CBL0137, administered in an optimized schedule, potentiates radiation therapy for glioblastoma by suppressing DNA damage repair. Research square.

Nguyen KT, et al. (2024) ProDiVis: a method to normalize fluorescence signal localization in 3D specimens. Frontiers in cell and developmental biology, 12, 1420161.

Zhu R, et al. (2024) ACSS2 acts as a lactyl-CoA synthetase and couples KAT2A to function as a lactyltransferase for histone lactylation and tumor immune evasion. Cell metabolism.

Habashy KJ, et al. (2024) Paclitaxel and Carboplatin in Combination with Low-intensity Pulsed Ultrasound for Glioblastoma. Clinical cancer research : an official journal of the American Association for Cancer Research, 30(8), 1619.

Kandpal M, et al. (2024) Gut-brain axis interplay via STAT3 pathway: Implications of Helicobacter pylori derived secretome on inflammation and Alzheimer's disease. Virulence, 15(1), 2303853.

Li Y, et al. (2024) Mechanisms of Glioblastoma Replication: Ca2+ Flares and Cl- Currents. Molecular cancer research : MCR, 22(9), 852.

Ramar V, et al. (2024) Interaction of NF-?B and FOSL1 drives glioma stemness. Cellular and molecular life sciences : CMLS, 81(1), 255.

Tsung K, et al. (2024) CRISPRi screen of long non-coding RNAs identifies LINC03045 regulating glioblastoma invasion. PLoS genetics, 20(6), e1011314.

Lee YB, et al. (2024) Function of a complex of p-Y42 RhoA GTPase and pyruvate kinase M2 in EGF signaling pathway in glioma cells. Journal of neurochemistry.

Barone TA, et al. (2024) FACT inhibitor CBL0137, administered in an optimized schedule, potentiates radiation therapy for glioblastoma by suppressing DNA damage repair. Journal of neuro-oncology.

Zhao K, et al. (2024) Nerve Growth Factor Signaling Promotes Nuclear Translocation of TRAF4 to Enhance Tumor Stemness and Metastatic Dormancy Via C-Jun-mediated IL-8 Autocrine. Advanced science (Weinheim, Baden-Wurttemberg, Germany), e2414437.

Ao H, et al. (2024) Enhanced anti-glioma activity of annonaceous acetogenins based on a novel liposomal co-delivery system with ginsenoside Rh2. Drug delivery, 31(1), 2324716.

O'Connor JPB, et al. (2024) Combined Oxygen-Enhanced MRI and Perfusion Imaging Detect Hypoxia Modification from Banoxantrone and Atovaquone and Track Their Differential Mechanisms of Action. Cancer research communications, 4(10), 2565.

Ohta K, et al. (2024) Therapeutic Efficacy of IL7/CCL19-Expressing CAR-T Cells in Intractable Solid Tumor Models of Glioblastoma and Pancreatic Cancer. Cancer research communications, 4(9), 2514.