

Resource Summary Report

Generated by [FDI Lab - SciCrunch.org](#) on Apr 15, 2025

U2OS

RRID:CVCL_0042

Type: Cell Line

Proper Citation

(RRID:CVCL_0042)

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0042

Proper Citation: (RRID:CVCL_0042)

Sex: Female

Defining Citation: [PMID:77569](#), [PMID:833871](#), [PMID:2233717](#), [PMID:2823272](#), [PMID:3518877](#), [PMID:6081590](#), [PMID:7017212](#), [PMID:8040301](#), [PMID:8275086](#), [PMID:8617485](#), [PMID:12645653](#), [PMID:15150091](#), [PMID:15736406](#), [PMID:17354236](#), [PMID:17981215](#), [PMID:18359981](#), [PMID:19787792](#), [PMID:20164919](#), [PMID:20215515](#), [PMID:21519327](#), [PMID:22068332](#), [PMID:22278370](#), [PMID:22460905](#), [PMID:23144859](#), [PMID:23649806](#), [PMID:24136885](#), [PMID:24618588](#), [PMID:25485619](#), [PMID:25877200](#), [PMID:25894527](#), [PMID:25960936](#), [PMID:26351324](#), [PMID:26589293](#), [PMID:27397505](#), [PMID:28196595](#), [PMID:29853780](#), [PMID:30894373](#), [PMID:31068700](#), [PMID:31978347](#), [PMID:35839778](#)

Comments: Omics: Virome analysis using proteomics., Omics: Transcriptome analysis by RNAseq., Omics: Transcriptome analysis by microarray., Omics: SNP array analysis., Omics: Protein expression by reverse-phase protein arrays., Omics: Metabolome analysis., Omics: DNA methylation analysis., Omics: Deep quantitative proteome analysis., Omics: Deep proteome analysis., Omics: Deep exome analysis., Omics: Deep antibody staining analysis., Omics: Cell surface proteome., Omics: Array-based CGH., Population: Caucasian., Part of: MD Anderson Cell Lines Project., 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).

Category: Cancer cell line

Name: U2OS

Synonyms: U-2 OS, U-2OS, U-2-OS, U2-OS, U20-S, U20S, 2T

Cross References: BTO:BTO_0001938, CLO:CLO_0001272, CLO:CLO_0009454, EFO:EFO_0002869, MCCL:MCC:0000468, CLDB:cl53, CLDB:cl4579, CLDB:cl4580, CLDB:cl4581, CLDB:cl7217, 4DN:4DNSR3V9ST6H, Abcam:ab263976, Abcam:ab279979, ArrayExpress:E-MTAB-783, ArrayExpress:E-MTAB-2706, ArrayExpress:E-MTAB-2770, ArrayExpress:E-MTAB-3610, ATCC:HTB-96, BCRC:60187, BCRJ:0304, BioGRID_ORCS_Cell_line:265, BioSample:SAMN03472549, BioSample:SAMN03472766, BioSample:SAMN10987914, cancercellines:CVCL_0042, CCRID:1101HUM-PUMC000028, CCRID:3101HUMSCSP5030, CCRID:3101HUMTCHu88, CCRID:4201HUM-CCTCC00626, CCRID:5301HUM-KCB09062YJ, Cell_Model_Passport:SIDM01191, ChEMBL-Cells:ChEMBL3307757, ChEMBL-Targets:ChEMBL615023, CLS:300364, Cosmic:687934, Cosmic:755312, Cosmic:909776, Cosmic:931038, Cosmic:931909, Cosmic:1044081, Cosmic:1044268, Cosmic:1066238, Cosmic:1074397, Cosmic:1078392, Cosmic:1082493, Cosmic:1097758, Cosmic:1529905, Cosmic:1733128, Cosmic:2009542, Cosmic:2301583, Cosmic:2440477, Cosmic:2816207, Cosmic-CLP:909776, DepMap:ACH-000364, DSMZ:ACC-785, DSMZCellDive:ACC-785, ECACC:92022711, EGA:EGAS00001000610, EGA:EGAS00001000978, ENCODE:ENCBS200HLU, ENCODE:ENCBS266AAA, ENCODE:ENCBS953RZO, GDSC:909776, GEO:GSE54820, GEO:GSM170250, GEO:GSM185160, GEO:GSM185161, GEO:GSM287989, GEO:GSM287990, GEO:GSM320831, GEO:GSM827583, GEO:GSM879223, GEO:GSM887722, GEO:GSM888816, GEO:GSM1231597, GEO:GSM1231598, GEO:GSM1231599, GEO:GSM1231600, GEO:GSM1231601, GEO:GSM1231602, GEO:GSM1231603, GEO:GSM1231604, GEO:GSM1231605, GEO:GSM1231606, GEO:GSM1231607, GEO:GSM1231608, GEO:GSM1231609, GEO:GSM1231610, GEO:GSM1356565, GEO:GSM1356566, GEO:GSM1356567, GEO:GSM1356568, GEO:GSM1356569, GEO:GSM1356570, GEO:GSM1356571, GEO:GSM1356572, GEO:GSM1356573, GEO:GSM1356574, GEO:GSM1356575, GEO:GSM1356576, GEO:GSM1356577, GEO:GSM1356578, GEO:GSM1356579, GEO:GSM1356580, GEO:GSM1356581, GEO:GSM1356582, GEO:GSM1356583, GEO:GSM1356584, GEO:GSM1356585, GEO:GSM1356586, GEO:GSM1356587, GEO:GSM1670557, GEO:GSM1676324, GEO:GSM1701657, IARC_TP53:27710, ICLC:HTL11001, KCB:KCB 200962YJ, KCLB:30096, LiGeA:CCL_160, LINCX_LDP:LCL-1431, Lonza:676, MetaboLights:MTBLS247, MetaboLights:MTBLS292, PharmacDB:U2OS_1619_2019, PRIDE:PRD000118, PRIDE:PXD000262, PRIDE:PXD000157, PRIDE:PXD000589, PRIDE:PXD000953, PRIDE:PXD000954, PRIDE:PXD001220, PRIDE:PXD002073, PRIDE:PXD002117, PRIDE:PXD002395, PRIDE:PXD003754, PRIDE:PXD009668, PRIDE:PXD017130, PRIDE:PXD020622, PRIDE:PXD024796, PRIDE:PXD025890, PRIDE:PXD028992, PRIDE:PXD030166, PRIDE:PXD030304, PRIDE:PXD030644, Progenetix:CVCL_0042, PubChem_Cell_line:CVCL_0042, TOKU-E:3379, Ubigen:YC-C030, Wikidata:Q28473037

ID: CVCL_0042

Record Creation Time: 20250131T202833+0000

Record Last Update: 20250131T204826+0000

Ratings and Alerts

No rating or validation information has been found for U2OS.

No alerts have been found for U2OS.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 8717 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Azeroglu B, et al. (2025) Identification of modulators of the ALT pathway through a native FISH-based optical screen. Cell reports, 44(1), 115114.

Caggiano R, et al. (2025) Suppression of ADP-ribosylation reversal triggers cell vulnerability to alkylating agents. Neoplasia (New York, N.Y.), 59, 101092.

Graham MK, et al. (2024) The TERT Promoter is Polycomb-Repressed in Neuroblastoma Cells with Long Telomeres. Cancer research communications, 4(6), 1533.

Saxena S, et al. (2024) Unprocessed genomic uracil as a source of DNA replication stress in cancer cells. Molecular cell, 84(11), 2036.

Horie M, et al. (2024) Exosomes secreted by ST3GAL5high cancer cells promote peritoneal dissemination by establishing a premetastatic microenvironment. Molecular oncology, 18(1), 21.

Liu L, et al. (2024) Non-canonical isoforms of the mRNA polyadenylation factor WDR33 regulate STING-mediated immune responses. Cell reports, 43(3), 113886.

Gaballa A, et al. (2024) PAF1c links S-phase progression to immune evasion and MYC function in pancreatic carcinoma. Nature communications, 15(1), 1446.

Rona G, et al. (2024) CDK-independent role of D-type cyclins in regulating DNA mismatch repair. Molecular cell.

Lu Y, et al. (2024) HDAC5 enhances IRF3 activation and is targeted for degradation by

protein C6 from orthopoxviruses including Monkeypox virus and Variola virus. *Cell reports*, 43(3), 113788.

Laporte MH, et al. (2024) Time-series reconstruction of the molecular architecture of human centriole assembly. *Cell*, 187(9), 2158.

Montero-Vergara J, et al. (2024) GRB2 is a BECN1 interacting protein that regulates autophagy. *Cell death & disease*, 15(1), 14.

Li N, et al. (2024) Bi-allelic variants in CEP295 cause Seckel-like syndrome presenting with primary microcephaly, developmental delay, intellectual disability, short stature, craniofacial and digital abnormalities. *EBioMedicine*, 99, 104940.

Hu Y, et al. (2024) A genome-wide CRISPR screen identifies USP1 as a novel regulator of the mammalian circadian clock. *The FEBS journal*, 291(3), 445.

Vind AC, et al. (2024) The ribotoxic stress response drives acute inflammation, cell death, and epidermal thickening in UV-irradiated skin in vivo. *Molecular cell*, 84(24), 4774.

Rane G, et al. (2024) ZBTB48 is a priming factor regulating B-cell-specific CIITA expression. *The EMBO journal*, 43(24), 6236.

Rezaei Adariani S, et al. (2024) Detection of a Mitochondrial Fragmentation and Integrated Stress Response Using the Cell Painting Assay. *Journal of medicinal chemistry*, 67(15), 13252.

Isaac R, et al. (2024) TM7SF3 controls TEAD1 splicing to prevent MASH-induced liver fibrosis. *Cell metabolism*, 36(5), 1030.

Kristó I, et al. (2024) Moesin contributes to heat shock gene response through direct binding to the Med15 subunit of the Mediator complex in the nucleus. *Open biology*, 14(10), 240110.

Collin V, et al. (2024) The immediate-early protein 1 of human herpesvirus 6B interacts with NBS1 and inhibits ATM signaling. *EMBO reports*, 25(2), 725.

Dey N, et al. (2024) miR-217 Regulates Normal and Tumor Cell Fate Following Induction of Endoplasmic Reticulum Stress. *Molecular cancer research : MCR*, 22(4), 360.