

Resource Summary Report

Generated by [NIF](#) on Aug 26, 2026

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

Description: Cell line U2OS is a Cancer cell line with a species of origin Homo sapiens (Human)

Sex: Female

Disease: Osteosarcoma

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:16957166](#), [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:28468878](#), [PMID:29853780](#), [PMID:30894373](#), [PMID:31068700](#), [PMID:31978347](#), [PMID:35839778](#)

Comments: Virology: Reliable and efficient in vitro integration system for human herpesvirus 6A (HHV-6A) and 6B (HHV-6B) (PubMed=28468878)., Population: Caucasian., Part of: MD Anderson Cell Lines Project., Part of: Human Protein Atlas, Cell Atlas panel., 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

Organism: Homo sapiens (Human)

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, ABM:T8293, 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, GEO:GSM7701414, GEO:GSM7701415, GEO:GSM7701442, GEO:GSM7701443, IARC_TP53:27710, ICLC:HTL11001, KCB:KCB 200962YJ, KCLB:30096, LiGeA:CCLE_160, LINCX_LDP:LCL-1431, Lonza:676, MetaboLights:MTBLS247, MetaboLights:MTBLS292, PharmacDB:U2OS_1619_2019, PRIDE:PRD000118, PRIDE:PXD000157, PRIDE:PXD000262, 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: 20220427T221640+0000

Record Last Update: 20260816T000024+0000

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 8982 mentions in open access literature.

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

Bural S, et al. (2026) Countervailing effects of cyclin isoforms A and B during mitosis. bioRxiv : the preprint server for biology.

Tao Y, et al. (2026) TENT5A Maintains MYC mRNA Stability to Enhance Osteosarcoma Stemness. Cancer research, 86(9), 2161.

Haney CM, et al. (2026) ABL drives phosphorylation of Semaphorin 6A at conserved tyrosines necessary for zebrafish retinal maintenance. FEBS letters, 600(12), 1744.

Patel UA, et al. (2026) CRISPR Screen Identifies HDAC3 as a Novel Radiosensitizing Target in Small Cell Lung Cancer. Molecular cancer therapeutics, 25(1), 183.

Nebenfuehr B, et al. (2026) Uncovering genetic interactions in the DNA repair network in response to endogenous damage and ionizing radiation. Cell reports, 45(1), 116850.

Ren Z, et al. (2026) MAT2A enhances PARN transcription via SRF to accelerate glycolysis and drive malignant progression in osteosarcoma. Communications biology, 9(1), 241.

Li L, et al. (2026) Targeting G3BP1 Condensate Topology Promotes Stress Granule Assembly via m6A-IGF2BP1 for Ischemic Stroke Rescue. Advanced science (Weinheim, Baden-Wuerttemberg, Germany), 13(6), e14703.

Takhaveev V, et al. (2026) Click-code-seq reveals strand biases of DNA oxidation and depurination in human genome. Nature chemical biology, 22(5), 716.

Levesque MG, et al. (2026) The ATRXt Protein Represses rDNA Transcription While Mirroring ATRX Interactions and Heterochromatin Localization. International journal of molecular sciences, 27(7).

Cortolezzis Y, et al. (2026) RPA hyperphosphorylation hinders the resolution of R-loops and G-quadruplex-associated R-loops during RAS-driven senescence. Nucleic acids research, 54(7).

Guo J, et al. (2026) The cytotoxic effect of prexasertib is a consequence of dual inhibition on both CHK1 and AMPK. Cell chemical biology, 33(6), 767.

Sahoo S, et al. (2026) RAD51C-XRCC3 complex regulates FANCM-mediated R-loop resolution to safeguard genome integrity. *Science advances*, 12(8), eaea5932.

Xia Z, et al. (2026) A GPX1-OSBPL8 axis mediates noncanonical in vivo ferroptosis and cancer growth suppression. *Cell*, 189(7), 1957.

Rom??n-Trufero M, et al. (2026) A Novel Potent and Selective GCN2 Inhibitor, APL-4098, Has Antileukemic Activity through Dysregulation of Mitochondrial Function. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 32(9), 1846.

Seo C, et al. (2026) Predicting DNA damage response using synthetic cell painting profiles and experimental analysis. *iScience*, 29(3), 115000.

Kopasz AG, et al. (2026) Hyperosmotic stress induces PARP1-mediated HPF1-dependent mono(ADP-ribosyl)ation. *FEBS letters*.

Fang C, et al. (2026) Base Editing of TIGIT Reprograms CD155 Signaling in Natural Killer Cells to Enhance Cancer Immunotherapy Efficacy. *Cancer research*, 86(8), 1956.

Vo N, et al. (2026) Detection of nuclear STING in cultured human cells and in the normal and cancer tissues. *iScience*, 29(5), 115711.

Koppenhafer SL, et al. (2026) DNA replication stress and translational repression converge to drive CDK1- and caspase-dependent apoptosis in Ewing sarcoma. *Oncogene*, 45(28), 2823.

Steyer C, et al. (2026) Monoclonal Antibodies Accessing the Cytosol of Living Cells and Binding to Polo-Like Kinase 1 Interdomain Linker Affect Mitotic Behavior. *Chembiochem : a European journal of chemical biology*, 27(9), e202500858.