

Resource Summary Report

Generated by [RRID](#) on Aug 31, 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: 20260830T000149+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 [RRID](#).

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-ribosylation). *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.