

Resource Summary Report

Generated by [NIF](#) on Sep 21, 2026

U2OS DR-GFP

RRID:CVCL_B0A7

Type: Cell Line

Proper Citation

RRID:CVCL_B0A7

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_B0A7

Proper Citation: RRID:CVCL_B0A7

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

Sex: Female

Disease: Osteosarcoma

Comments: Characteristics: Can be used to monitor homologous recombination efficiency using the DR-GFP reporter (ATCC=CRL-3455)., Characteristics: Transfected with a DR-GFP reporter construct. The DR-GFP construct which contains a tandem repeat of two inactive genes coding for EGFP. After transfection with an expression vector coding for the I-SceI enzyme, recombination induced by the cleavage of the I-SceI site recreates a functional EGFP., Population: Caucasian.

Category: Cancer cell line

Organism: Homo sapiens (Human)

Name: U2OS DR-GFP

Synonyms: U-2 OS DRGFP

Cross References: ATCC:CRL-3455, Wikidata:Q108821411

ID: CVCL_B0A7

Hierarchy: cvcl_0042

Record Creation Time: 20220427T221640+0000

Record Last Update: 20260920T010002+0000

Ratings and Alerts

No rating or validation information has been found for U2OS DR-GFP.

No alerts have been found for U2OS DR-GFP.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 7 mentions in open access literature.

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

Gui F, et al. (2025) Acute BRCAness induction and AR pathway blockage through CDK12/7/9 degradation enhances PARP inhibitor sensitivity in prostate cancer. Science advances, 11(17), eadu0847.

Randolph ME, et al. (2024) RNA helicase DDX3 regulates RAD51 localization and DNA damage repair in Ewing sarcoma. iScience, 27(2), 108925.

Zelceski A, et al. (2023) MND1 and PSMC3IP control PARP inhibitor sensitivity in mitotic cells. Cell reports, 42(5), 112484.

Pan M, et al. (2023) Identification of an Imidazopyridine-based Compound as an Oral Selective Estrogen Receptor Degradar for Breast Cancer Therapy. Cancer research communications, 3(7), 1378.

Chakraborty S, et al. (2022) Heat-induced SIRT1-mediated H4K16ac deacetylation impairs resection and SMARCAD1 recruitment to double strand breaks. iScience, 25(4), 104142.

Marzio A, et al. (2022) EMSY inhibits homologous recombination repair and the interferon response, promoting lung cancer immune evasion. Cell, 185(1), 169.

Valencia FR, et al. (2021) Force-dependent activation of actin elongation factor mDia1 protects the cytoskeleton from mechanical damage and promotes stress fiber repair. Developmental cell, 56(23), 3288.