

U2OS-CRISPR-NUP96-mEGFP | 300174

Product information

Description U-2 OS-CRISPR-NUP96-mEGFP is a cell line derived from U-2 OS cells, which are a human osteosarcoma cell line. This cell line is characterized by the presence of a CRISPR-Cas9 system targeting the NUP96 gene, resulting in a stable knockdown of NUP96 expression. The cells are also stably expressing mEGFP (mini-emerald green fluorescent protein) as a reporter gene. The cell line is maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS) and 100 ng/ml insulin-like growth factor 1 (IGF1). The cell line is available in a 195 cell suspension format. The cell line is deposited at the European Collection of Cell Cultures (ECACC) under the accession number CVCL_B7FJ.

Organism Homo sapiens

Tissue Bone marrow

Disease Osteosarcoma

Characteristics

Age 15 days

Gender Male

Ethnicity Caucasian

Morphology Adherent, epithelial

Growth properties High growth rate

Documentation

Citation U-2 OS-CRISPR-NUP96-mEGFP (195 cells) (Cytion 300174)

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_B7FJ

Depositor Cytion GmbH (EMBL)

GMO Status GMO-S1: U2OS-CRISPR-NUP96-mEGFP (195 cells)

Product sheet

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XXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX

Protein expression MEGFP (XXXXXXXX XXXX XXXXXXXX XXXXXXXX96X XXXXXXXX X mEGFP)

XXXXXXXXXX

Culture Medium XXXXXX 5 X 3.0 X/XXXX XXXXXXXX X- XXXXXXXX XXXXXXXX X 2.0 XXX XXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX X 2.2 X/XXXX NaHCO3 (XXXX XXXXXXX)

Supplements XXXXXX XXX XXXXXX 10X FBS X 1X NEAA

Dissociation Reagent XXXXXXXX

Subculturing XX XXXXXXX XXXXXXX XXXXXXX XX XXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX PBS XXXXX XXXXXXX XXX XXXXXXXXXX XXXXXXXXXX XXXXXXX XXXXXXX

Seeding density 2 XXX 3 X⁴ XXXX/XXXX

Fluid renewal 2 XXX 3 XXXXX XX XXXXXXXX

Freeze medium XXXXXX XXXXXXX XXXXXXXXXX XXXXXXX XXX XXX XXXXX (XXXX XX XXXX FBS) + 10% DMSO XX XXXX XXXXXXX XXX XXXXXXX XXXXXXX XXXXXXX XXXXXXX XXXXXXX

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Thawing and Culturing Cells

1. Thaw the vial quickly in a 37°C water bath. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Resuspend the cells in 100 µl of medium.
3. Seed the cells into a 96-well plate (37°C, 5% CO₂). Seed 37 cells per well.
4. Incubate the cells for 24 hours. The cell density should reach 70% confluency.
5. Seed the cells into a 96-well plate (37°C, 5% CO₂). Seed 15 cells per well.
6. Incubate the cells for 24 hours. The cell density should reach 70% confluency.
7. Seed the cells into a 96-well plate (37°C, 5% CO₂). Seed 10 cells per well.
8. Incubate the cells for 24 hours. The cell density should reach 70% confluency.

Incubation Atmosphere 37°C, 5% CO₂

Flask Coating None

Freezing Procedure Seed cells into a 96-well plate (37°C, 5% CO₂). Seed 10 cells per well. Incubate for 24 hours. The cell density should reach 70% confluency.

Shipping Conditions 4°C

Storage Conditions -150 to -196°C

HLA

Sterility The cells are free of mycoplasma contamination. PCR screening results are available upon request.