

U2OS-CRISPR-SNAPf-Nup133 | 300666

Product information

Description U2OS-CRISPR-SNAPf-Nup133 is a cell line derived from U2OS cells (NPC) expressing a CRISPR-Cas9 system targeting Nup133. The cells are stably transfected with a CRISPR-Cas9 system targeting Nup133 and a SNAPf expression vector. The cells are used for studying the function of Nup133 in NPC. The cells are characterized by their ability to form NPC and their sensitivity to O6-alkylguanine-DNA alkyltransferase (O6-AGT). The cells are used for studying the function of Nup133 in NPC. The cells are characterized by their ability to form NPC and their sensitivity to O6-alkylguanine-DNA alkyltransferase (O6-AGT).

Organism *Homo sapiens*

Tissue *Homo sapiens*

Disease *Homo sapiens*

Metastatic site *Homo sapiens* (NPC)

Applications *Homo sapiens* (NPC) Nup133/Y

Characteristics

Age 15

Gender

Ethnicity

Morphology

Cell type

Growth properties

References

Citation U2OS-CRISPR-SNAPf-Nup133 (300666)

Biosafety level 1

Product sheet

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NCBI_TaxID 9606

CellosaurusAccession CC-0001 (U2OS CRISPR U2OS CVCL_0042)

Depositor European Bioinformatics Institute (EMBL)

GMO Status GMO-S1: U2OS-CRISPR-SNAPf-Nup133 SNAPf-Nup133

Protein expression

Protein expression Nup133-SNAPf-tag

Culture Medium

Culture Medium DMEM 5 ml, 3.0 g/l, 2.0 g/l, 2.2 g/l NaHCO3

Supplements 10% FBS, 3.0 g/l, 2.0 g/l, 2.2 g/l NaHCO3

Dissociation Reagent Trypsin

Doubling time 24-36 hours

Subculturing 1:3 split ratio, PBS

Split ratio 1:3

Seeding density 1-3 x 10^4 cells/cm^2

Fluid renewal 2-3 times per week

Freeze medium DMEM + 10% FBS + 10% DMSO

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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. After 24 hours, the cell density should reach approximately 70% confluency.
5. Harvest the cells after 15 days. Seed 8 cells per well.
6. Seed 300 x 3 cells per well.
7. Harvest the cells after 10 days. Seed 10 cells per well.
8. Harvest the cells after 10 days. Seed 10 cells per well.

Incubation Atmosphere 37°C, 5% CO₂

Flask Coating None

Freezing Procedure Harvest cells and freeze in liquid nitrogen.

Shipping Conditions Dry ice, -78°C

Storage Conditions -150°C to -196°C

HLA

Sterility Cells are free of mycoplasma and other contaminants. PCR screening is performed.