

Product sheet

**U2OS-CRISPR-NUP96-mMaple | 300461**

**General Information**

**Description** U-2 OS-CRISPR-NUP96-mMaple is a cell line derived from U-2 OS, a human osteosarcoma cell line, which has been genetically modified to express a CRISPR-Cas9 system targeting the NUP96 gene. The cell line is maintained in the presence of puromycin selection. The cell line is characterized by its ability to form colonies in soft agar and its tumorigenic potential in nude mice. The cell line is a derivative of U-2 OS-CRISPR-NUP96-mMaple clone no.16.

**Organism** Human

**Tissue** Bone

**Disease** Osteosarcoma

**Characteristics**

**Age** 15 days

**Gender** Male

**Ethnicity** Caucasian

**Growth properties** Adherent

**Identification**

**Citation** U-2 OS-CRISPR-NUP96-mMaple (Cytion 300461)

**Biosafety level** 1

**NCBI\_TaxID** 9606

**CellosaurusAccession** CVCL\_B7FK

**Depositor** Cytion (EMBL)

**GMO Status** GMO-S1: U-2 OS-CRISPR-NUP96-mMaple (clone no.16) expressing NUP96-mMaple



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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 at 300 x g for 3 minutes. Resuspend in 150 µl of medium. Seed into a 96-well plate.
3. Incubate at 37°C with 5% CO<sub>2</sub> for 24 hours.
4. Remove the medium and replace with fresh medium. Harvest 70% of the cells.
5. Seed the cells into a 15 cm<sup>2</sup> flask with 8 ml of medium.
6. Incubate at 37°C with 5% CO<sub>2</sub> until the cells reach 30-50% confluency.
7. Harvest 10 ml of cells into a 10 ml tube. Wash with PBS. Resuspend in 1 ml of PBS.
8. Count the cells and seed into a 15 cm<sup>2</sup> flask with 15 ml of medium.

**Incubation Atmosphere** 37°C, 5% CO<sub>2</sub>, humidified

**Flask Coating** None

**Freezing Procedure** Harvest cells into a 10 ml tube. Wash with PBS. Resuspend in 1 ml of PBS. Add 10% FBS. Freeze at -80°C.

**Shipping Conditions** Dry ice, -80°C

**Storage Conditions** -150 °C, 196 hours

## Genotype / HLA

**Sterility** PCR screening for mycoplasma contamination. Negative results.