

### U2OS-CRISPR-NUP96-mMaple | 300461

#### General information

<b>Description</b>	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 DMEM supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin. The cell line is characterized by its ability to form colonies in soft agar and its tumorigenic potential in immunodeficient mice. The cell line is a clone no. 16 of the U-2 OS-CRISPR-NUP96-mMaple cell line.
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<b>Organism</b>	Human
<b>Tissue</b>	Osteosarcoma
<b>Disease</b>	Osteosarcoma

#### Characteristics

<b>Age</b>	15 days
<b>Gender</b>	Male
<b>Ethnicity</b>	Caucasian
<b>Growth properties</b>	Adherent

#### Identification and safety

<b>Citation</b>	U-2 OS-CRISPR-NUP96-mMaple (Accession: Cytion 300461)
<b>Biosafety level</b>	1
<b>NCBI_TaxID</b>	9606
<b>CellosaurusAccession</b>	CVCL_B7FK
<b>Depositor</b>	EMBL
<b>GMO Status</b>	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 complete growth medium.
2. Seed the cells into a 25 cm<sup>2</sup> flask containing 150 mL of complete growth medium. Incubate at 37°C with 5% CO<sub>2</sub>.
3. Once the cells reach confluence, seed them into a 96-well plate (37°C, 5% CO<sub>2</sub>) for 37 hours to allow for cell attachment.
4. Remove the medium and replace it with fresh complete growth medium. Seed the cells into a 96-well plate (37°C, 5% CO<sub>2</sub>) at 70% confluence.
5. Seed the cells into a 96-well plate (37°C, 5% CO<sub>2</sub>) at 15 x 10<sup>4</sup> cells per well. Seed the cells into a 96-well plate (37°C, 5% CO<sub>2</sub>) at 8 x 10<sup>4</sup> cells per well.
6. Seed the cells into a 96-well plate (37°C, 5% CO<sub>2</sub>) at 300 x g. Seed the cells into a 96-well plate (37°C, 5% CO<sub>2</sub>) at 300 x g.
7. Seed the cells into a 96-well plate (37°C, 5% CO<sub>2</sub>) at 10 x 10<sup>4</sup> cells per well. Seed the cells into a 96-well plate (37°C, 5% CO<sub>2</sub>) at 10 x 10<sup>4</sup> cells per well.
8. Seed the cells into a 96-well plate (37°C, 5% CO<sub>2</sub>) at 10 x 10<sup>4</sup> cells per well. Seed the cells into a 96-well plate (37°C, 5% CO<sub>2</sub>) at 10 x 10<sup>4</sup> cells per well.

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

**Flask Coating** None

**Freezing Procedure** Harvest cells into a 15 mL centrifuge tube. Pellet cells by centrifugation at 300 x g for 5 minutes. Wash cells with PBS. Resuspend cells in freezing medium. Aliquot into 1 mL cryovials. Store at -80°C.

**Shipping Conditions** Store at -80°C.

**Storage Conditions** Store at -150°C for 196 weeks.

### Genotype / HLA

**Sterility** The cells are free of mycoplasma contamination. PCR screening for mycoplasma is performed. The cells are free of mycoplasma contamination.