

U2OS-CRISPR-NUP96-mEGFP | 300174

General 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. The cells are stably transfected with a CRISPR-Cas9 system targeting the NUP96 gene. The cells are also expressing a mEGFP reporter gene. The cells are maintained in DMEM supplemented with 10% FBS and 1% penicillin/streptomycin. The cells are characterized by their high growth rate and their ability to form colonies in soft agar.
Organism	Human
Tissue	Osteosarcoma
Disease	Osteosarcoma

Cell characteristics

Age	15 years
Gender	Male
Ethnicity	White
Morphology	Epithelial cells
Growth properties	High growth rate

Identification and documentation

Citation	U-2 OS-CRISPR-NUP96-mEGFP (Cell Line 195) (Cytion 300174)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_B7FJ
Depositor	EMBL

GMO Status GMO-S1: U2OS-CRISPR-NUP96-mEGFP (U2OS-CRISPR-NUP96-mEGFP, Cell Line 195) is a genetically modified organism (GMO) derived from U2OS cells.

Product sheet

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Protein expression	MEGFP (NUP96, mEGFP)
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U2OS

Culture Medium	McCoy's 5a, w: 3.0 g/L Glucose, w: 2.0 mM Glutamine, w: 2.2 g/L NaHCO ₃ (Cytion 820200a)
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Supplements	10% FBS, 1% NEAA
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Dissociation Reagent	Trypsin
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Subculturing	U2OS cells are grown in McCoy's 5a medium supplemented with 10% FBS and 1% NEAA. For subculturing, cells are trypsinized and seeded into new flasks. Cells are typically grown in T25 flasks, 3-5 x 10 ⁶ cells per flask. Cells are typically grown in 3-5 x 10 ⁶ cells per flask.
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Seeding density	2 x 10 ⁴ - 3 x 10 ⁵ cells per flask
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Fluid renewal	2 x 3 days
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Freeze medium	DMEM supplemented with 10% FBS and 10% DMSO (Cytion 820200a) + 10% DMSO (Cytion 820200a) + 10% DMSO (Cytion 820200a)
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Thawing and
Culturing Cells

1. 将细胞悬液缓慢加入含有培养基的细胞培养瓶中，轻轻混匀，将细胞培养瓶置于37°C CO₂培养箱中培养。
2. 将细胞培养瓶置于37°C CO₂培养箱中培养，待细胞贴壁后，将培养基更换为新鲜培养基。
3. 将细胞培养瓶置于37°C CO₂培养箱中培养，待细胞贴壁后，将培养基更换为新鲜培养基。
4. 将细胞培养瓶置于37°C CO₂培养箱中培养，待细胞贴壁后，将培养基更换为新鲜培养基。
5. 将细胞培养瓶置于37°C CO₂培养箱中培养，待细胞贴壁后，将培养基更换为新鲜培养基。
6. 将细胞培养瓶置于37°C CO₂培养箱中培养，待细胞贴壁后，将培养基更换为新鲜培养基。
7. 将细胞培养瓶置于37°C CO₂培养箱中培养，待细胞贴壁后，将培养基更换为新鲜培养基。
8. 将细胞培养瓶置于37°C CO₂培养箱中培养，待细胞贴壁后，将培养基更换为新鲜培养基。

Incubation
Atmosphere

37°C, 5% CO₂, 饱和湿度

Flask Coating

无涂层

Freezing
Procedure

将细胞悬液加入含有冻存液的冻存管中，轻轻混匀，将冻存管置于-80°C冰箱中冷冻。

Shipping
Conditions

将细胞悬液加入含有冻存液的冻存管中，轻轻混匀，将冻存管置于-80°C冰箱中冷冻。

Storage
Conditions

将细胞悬液加入含有冻存液的冻存管中，轻轻混匀，将冻存管置于-80°C冰箱中冷冻。

细胞培养与转染

Sterility

细胞培养与转染过程中，所有操作应在无菌条件下进行。PCR产物应在无菌条件下进行。细胞培养与转染过程中，所有操作应在无菌条件下进行。