

U2OS-CRISPR-SNAPf-Nup133 | 300666

U2OS-CRISPR-SNAPf-Nup133

Description

U2OS-CRISPR-SNAPf-Nup133 is a cell line derived from U2OS cells, which are a human osteosarcoma cell line. The cells are stably transfected with a CRISPR-Cas9 system targeting the NUP133 gene. The resulting cell line is characterized by a high level of expression of the SNAPf protein, which is a fluorescently labeled protein that targets the nuclear pore complex (NPC). The cells are used for studying the function of the NPC and the role of NUP133 in the cell cycle.

Organism

Human

Tissue

Epithelial

Disease

None

Metastatic site

None

Applications

Study of the nuclear pore complex (NPC); Study of the role of NUP133 in the cell cycle; Study of the function of the NPC; Study of the role of the NPC in the cell cycle.

Characteristics

Age

15 days

Gender

Male

Ethnicity

Human

Morphology

Epithelial

Cell type

Epithelial (NUP133)

Growth properties

High

Characteristics and Applications

Citation

U2OS-CRISPR-SNAPf-Nup133 (Cytion 300666)

Biosafety level

1

Product sheet

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NCBI_TaxID	9606
CellosaurusAccession	CVCL_U2OS (U2OS cells with CRISPR; U2OS CVCL_0042)
Depositor	EMBL
GMO Status	GMO-S1: U2OS-CRISPR-SNAPf-Nup133 (U2OS-CRISPR-SNAPf-Nup133) SNAPf-Nup133
Protein expression	
Nup133, SNAPf-tag	
Culture Medium	
McCoy's 5a, w: 3.0 g/L, w: 2.0 mM, w: 2.2 g/L NaHCO ₃ (Cytion 820200a)	
Supplements	10% FBS, 3.0 g/L, 2.0 mM, 2.2 g/L NaHCO ₃ , 1% NEAA
Dissociation Reagent	
Doubling time	24-36 h
Subculturing	1:3-5 in PBS, T25, 3-5 in PBS, 3-5 in PBS
Split ratio	1:3
Seeding density	1-3 × 10 ⁴ cells/cm ²
Fluid renewal	2-3 times
Freeze medium	10% FBS + 10% DMSO

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Thawing and
Culturing Cells

1. 将细胞悬液缓慢加入含有培养基的烧瓶中，轻轻混匀，然后将烧瓶置于37°C CO₂培养箱中孵育24小时。
2. 将细胞悬液加入含有培养基的烧瓶中，轻轻混匀，然后将烧瓶置于37°C CO₂培养箱中孵育24小时。
3. 将细胞悬液加入含有培养基的烧瓶中，轻轻混匀，然后将烧瓶置于37°C CO₂培养箱中孵育24小时。
4. 将细胞悬液加入含有培养基的烧瓶中，轻轻混匀，然后将烧瓶置于37°C CO₂培养箱中孵育24小时。
5. 将细胞悬液加入含有培养基的烧瓶中，轻轻混匀，然后将烧瓶置于37°C CO₂培养箱中孵育24小时。
6. 将细胞悬液加入含有培养基的烧瓶中，轻轻混匀，然后将烧瓶置于37°C CO₂培养箱中孵育24小时。
7. 将细胞悬液加入含有培养基的烧瓶中，轻轻混匀，然后将烧瓶置于37°C CO₂培养箱中孵育24小时。
8. 将细胞悬液加入含有培养基的烧瓶中，轻轻混匀，然后将烧瓶置于37°C CO₂培养箱中孵育24小时。

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培养基的烧瓶中，轻轻混匀，然后将烧瓶置于37°C CO₂培养箱中孵育24小时。

Shipping
Conditions

将细胞悬液加入含有培养基的烧瓶中，轻轻混匀，然后将烧瓶置于37°C CO₂培养箱中孵育24小时。

Storage
Conditions

将细胞悬液加入含有培养基的烧瓶中，轻轻混匀，然后将烧瓶置于37°C CO₂培养箱中孵育24小时。

细胞培养与转染

Sterility

将细胞悬液加入含有培养基的烧瓶中，轻轻混匀，然后将烧瓶置于37°C CO₂培养箱中孵育24小时。