U-2 OS-CRISPR-NUP96-Halo

300448

GENERAL INFORMATION

Description

U-2 OS-CRISPR-NUP96-Halo □□□□□□□□□□ U-2 OS □□□□□□□□□□□□□□□□□□□ CRISPR-Cas9 □□□□□□□□□ HaloTag □□□ NUP96 □□□□□□ NUP96 □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ HaloTag □□□□□□□□□□□□□□□□□□□□□□□ NUP96 □□□□□□□□□□□□□□□□□□□
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Tissue	□□
Disease	□□□

CLASSIFICATION

Organism	Human
Sex	Female
Growth properties	Adherent
GMO status	GMO-S1

GMO status details

GMO-S1: This human osteosarcoma cell line (U2OS-CRISPR-NUP96-Halo, clone 252) contains a CRISPR-edited NUP96-Halo fusion generated via lentiviral delivery, enabling fluorescent labeling of nuclear pore complexes. The modification is stably integrated. This classification applies only within Germany and may differ elsewhere.

Biosafety level	1

CHARACTERISTICS

Morphology	□□□

IDENTIFIERS

Citation

U-2 OS-CRISPR-NUP96-Halo□Cytion □□ 300448□

NCBI TaxID	9606
Cellosaurus	CVCL_B7FI
Depositor	□□□□□□□□EMBL□

EXPRESSION AND SUSCEPTIBILITY

Protein expression

NUP96-Halo□□□□□□□□□□□ 96□□□ Halo □□□

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Banking information
Sparkasse Heidelberg
IBAN: DE35 6725 0020 0009 2076 86
BIC: SOLADES1HDB

HANDLING AND CULTURE

Culture medium

□□□ 5a □□□□□□3.0 g/L □□□□□□□□□□□□□□□□□2.0 mM □□□□□□2.2 g/L $NaHCO_3$□Cytion □□□□ 820200a□

Incubation atmosphere	37°C□5% CO_2□□□□□□

Supplements

□□□□□□□ 10% □□□□□□FBS□

Dissociation reagent	Accutase

Subculturing

□□□□□□□□□□□□□□□□□□□□□PBS□□□□□T25□□□□□3-5□□PBS□T75□□□□□□5-10□□□ □□□□ Accutase □□□□□□□T25 □□□□□ 1–2 □□□T75 □□□□□□ 2.5 □□□□□□□□□□□□ 8–10 □□□□□□□□ □□□□□□□ 10 □□□□□□□□□□□□□□□□□□□□□ 300xg □□ 3 □□□□ □□

Seeding density	1 × 10^4 □□□/cm²
Fluid renewal	□□ 2 □ 3 □

Thawing and culturing

Confirm that the vial remains deeply frozen upon delivery, as cells are shipped on dry ice to maintain optimal temperatures during transit.
Upon receipt, either store the cryovial immediately at temperatures below -150°C to ensure the preservation of cellular integrity, or proceed to step 3 if immediate culturing is required.
For immediate culturing, swiftly thaw the vial by immersing it in a 37°C water bath with clean water and an antimicrobial agent, agitating gently for 40-60 seconds until a small ice clump remains.
Perform all subsequent steps under sterile conditions in a flow hood, disinfecting the cryovial with 70% ethanol before opening.
Carefully open the disinfected vial and transfer the cell suspension into a 15 ml centrifuge tube containing 8 ml of room-temperature culture medium, mixing gently.
Centrifuge the mixture at 300 x g for 3 minutes to separate the cells and carefully discard the supernatant containing residual freezing medium.
Gently resuspend the cell pellet in 10 ml of fresh culture medium. For adherent cells, divide the suspension between two T25 culture flasks; for suspension cultures, transfer all the medium into one T25 flask to promote effective cell interaction and growth.
Adhere to established subculture protocols for continued growth and maintenance of the cell line, ensuring reliable experimental outcomes.

QUALITY CONTROL AND CRYOPRESERVATION

Sterility

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Freeze medium	□□□□□□□□□□□□□□□□□□□□□□□□□ FBS□+ 10% DMSO □□□□□□□□□□□□□□□ CM-1 □Cytion □□ 800100□□□

Storage conditions

□□□□□□□□□□□□□□□□□ −150 □ −196 °C □□□□□□□□□□□□□□□□□□□□□□□□□□□□□ −80 °C □□□□□□□□□□□□□

Shipping conditions

□□□ −78 °C□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

DONOR

Donor age	15□
Ethnicity	□□□□

LEGAL AND SAFETY

Safety precautions
若計劃將低溫試管存放在液態氮中以供日後解凍，必須嚴格遵守相關安全措施。 必須穿戴適當的防護手套和防護服，且在將冷凍樣本移入或移出液氮罐時，必須佩戴口罩或安全護目鏡。此舉旨在降低因取出時冷凍試管可能發生爆炸而導致受傷的風險，此類爆炸可能造成尖銳碎片飛濺。

Warranty

在 Cytion，我們對產品的品質與存活率提供保障。
我們保證，自本公司設施出貨後
60 天內，我們的細胞在培養開始時仍具存活能力。
我們保證所有材料均符合
分析證明書及／或產品說明書中所載的規格。
詳情請參閱我們的
《保固聲明》。

Third-party agreements apply Yes

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