

HK-CRISPR-Nup188-mEGFP | 300657

General information

Description	HK-CRISPR-Nup188-mEGFP is a HeLa Kyoto cell line with a CRISPR/Cas9 system targeting Nup188, resulting in a mEGFP knock-in. The cell line is derived from HeLa Kyoto cells and is maintained in DMEM supplemented with 10% FBS. The CRISPR/Cas9 system is used to generate a mEGFP knock-in at the Nup188 locus. The cell line is characterized by its high growth rate and stable expression of mEGFP.
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Organism	Human
Tissue	Epithelial cells
Disease	None

Cell characteristics

Age	30 days
Gender	Male
Ethnicity	European
Morphology	Epithelial cells, adherent
Growth properties	High growth rate

Genetic information

Citation	HK-CRISPR-Nup188-mEGFP (Cytion 300657)
Biosafety level	1
NCBI_TaxID	9606
Depositor	EMBL
GMO Status	GMO-S1: HeLa Kyoto cells with CRISPR knock-in mEGFP targeting Nup188, resulting in a mEGFP knock-in.

Genetic information

Product sheet

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Protein expression Nup188, mEGFP-tag

XXXXXX

Culture Medium DMEM, w: 4.5 g/L XXXXX, w: 4 mM L-XXXXXX, w: 3.7 g/L NaHCO₃, w: 1.0 mM XXXX XXXXX (XXXX XXXXX Cytion 820300a)

Supplements XXXX XXXX 10% FBS

Dissociation Reagent XXXXX

Subculturing XXX XX XXXXX XXXX XXXXX XXXXX XXXX XXXX PBS XXX XXXX XXXXX XXXX XXXXX T25, XXXXX 3-5 10⁶ PBS, XXXXX XXXX 3 XXXX. XXXX XX XXXXX XXXXX, XXXX XX XXXXX XXXXX XXXXX XXX XXXXX XXXX XXXXX XXXXX XXXX XXXX XXXXX XXXXX XXXX.

Freeze medium XXXXX XXXXX XXXXX, XXX XXXXX XXXXX XXXXX XXXX (XXXX FBS) + 10% DMSO XXX XXXXX XXXXX XXXXX XXXX XXXXX, XXX C

Thawing and Culturing Cells

1. XXX XXXXX XXXX XXXX XXXXX XXX XXXXX, XXX XXXXX XXXXX XXXX XXX XXXX XXXX XXX XXXXX XXXXX XXXXX XXXXX.
2. XX XXXX XXXXX, XXXX XX XXXXX XXXXX XXX XXXXX XXXXX XXXX -150°C XXX XXXXX XX XXXXX XXXXX XXXXX, XX XXXX XXXXX XXXXX.
3. XXXXX XXXXX XXXXX, XXXXX XX XXXXX XXXXX XX XXX XXXXX XXXXX XXX XXXXX XXXXX XX 37 XXXXX XXXXX XX XXX XXXX.
4. XXX XX XX XXXXX XXXXX XXXXX XXXXX XXXXX, XXXX XX XXXXX XXXXX XXXXX 70% XXXX XXXXX.
5. XXX XXXXX XX XXXXX XXXXX XXXXX XXXX XX XXXXX XXXXX XXXXX XXXXX XXXXX XXXX 15 10⁶ XXXXX 8 10⁶ XX XXX XXXXX XXXX.
6. XXXXX XX XXXXX XXXXX XXXXX -300 x g XXXX 3 XXXX XXX XXXXX XX XXXXX, XXXXX XXXXX XX XXXXX XXXXX XXXXX XXXX.
7. XXXX XXXXX XX XXXX XXXXX -10 10⁶ XX XXX XXXXX XXXX. XXXX XXX XXXXX, XXXX XX XXXXX XXX XXX XXXXX XXXXX T25.
8. XXXXX XX XXXXX XXXX -XXXX XXXXX XXXXX XXXXX XXXXX XXX XXXXX, XXX XXXXX XXXXX XXXXX XXXXX.

Incubation Atmosphere 37°C, 5% CO₂, XXXXX XXXX

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Flask Coating

Coat flasks with 100 µl of the following solution per flask, then incubate at 37°C for 1 hour.

Freezing Procedure

For freezing, mix 100 µl of the cell suspension with 100 µl of the freezing medium and freeze at -78°C.

Shipping Conditions

For shipping, mix 100 µl of the cell suspension with 100 µl of the freezing medium and freeze at -78°C.

Storage Conditions

For storage, mix 100 µl of the cell suspension with 100 µl of the freezing medium and freeze at -150 to -196 °C.

HLA

Sterility

For sterility, mix 100 µl of the cell suspension with 100 µl of the freezing medium and freeze at -150 to -196 °C. The cells are then thawed and the medium is replaced by fresh medium.