

HK-CRISPR-mEGFP-Nup153 | 300656

General information

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | HK-CRISPR-mEGFP-Nup153 is a HeLa cell line expressing mEGFP under the control of a CRISPR-Cas9 system targeting the NUP153 gene. The cells are maintained in DMEM supplemented with 10% FBS and 1% penicillin/streptomycin. The CRISPR-Cas9 system is expressed from a plasmid vector, and the mEGFP gene is expressed from a separate plasmid vector. The cells are used for studying the function of NUP153 in the nuclear pore complex (NPC). |
| Organism    | HeLa                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Tissue      | Epithelial cells                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Disease     | None                                                                                                                                                                                                                                                                                                                                                                                                                                             |

Cell characteristics

|                   |                            |
|-------------------|----------------------------|
| Age               | 30 days                    |
| Gender            | Male                       |
| Ethnicity         | Chinese                    |
| Morphology        | Epithelial cells, adherent |
| Growth properties | Highly proliferative       |

Genetic information

|                 |                                                                                                                |
|-----------------|----------------------------------------------------------------------------------------------------------------|
| Citation        | HK-CRISPR-mEGFP-Nup153 (Cytion 300656)                                                                         |
| Biosafety level | 1                                                                                                              |
| NCBI_TaxID      | 9606                                                                                                           |
| Depositor       | EMBL                                                                                                           |
| GMO Status      | GMO-S1: HeLa Kyoto cells expressing mEGFP under the control of a CRISPR-Cas9 system targeting the NUP153 gene. |

Genetic information

Product sheet

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**Protein expression** Nup153, mEGFP-tag

**Culture Medium** DMEM, w: 4.5 g/L , w: 4 mM L-, w: 3.7 g/L NaHCO<sub>3</sub>, w: 1.0 mM ( Cytion 820300a)

**Supplements** 10% FBS

**Dissociation Reagent**

**Subculturing** 1. 2-PBS 2-T25, 3-5 4-PBS, 5-3 6-PBS, 7-3 8-PBS, 9-3 10-PBS, 11-3 12-PBS, 13-3 14-PBS, 15-3 16-PBS, 17-3 18-PBS, 19-3 20-PBS, 21-3 22-PBS, 23-3 24-PBS, 25-3 26-PBS, 27-3 28-PBS, 29-3 30-PBS, 31-3 32-PBS, 33-3 34-PBS, 35-3 36-PBS, 37-3 38-PBS, 39-3 40-PBS, 41-3 42-PBS, 43-3 44-PBS, 45-3 46-PBS, 47-3 48-PBS, 49-3 50-PBS, 51-3 52-PBS, 53-3 54-PBS, 55-3 56-PBS, 57-3 58-PBS, 59-3 60-PBS, 61-3 62-PBS, 63-3 64-PBS, 65-3 66-PBS, 67-3 68-PBS, 69-3 70-PBS, 71-3 72-PBS, 73-3 74-PBS, 75-3 76-PBS, 77-3 78-PBS, 79-3 80-PBS, 81-3 82-PBS, 83-3 84-PBS, 85-3 86-PBS, 87-3 88-PBS, 89-3 90-PBS, 91-3 92-PBS, 93-3 94-PBS, 95-3 96-PBS, 97-3 98-PBS, 99-3 100-PBS

**Freeze medium** (FBS) + 10% DMSO

**Thawing and Culturing Cells**

1. 2-PBS 2-T25, 3-5 4-PBS, 5-3 6-PBS, 7-3 8-PBS, 9-3 10-PBS, 11-3 12-PBS, 13-3 14-PBS, 15-3 16-PBS, 17-3 18-PBS, 19-3 20-PBS, 21-3 22-PBS, 23-3 24-PBS, 25-3 26-PBS, 27-3 28-PBS, 29-3 30-PBS, 31-3 32-PBS, 33-3 34-PBS, 35-3 36-PBS, 37-3 38-PBS, 39-3 40-PBS, 41-3 42-PBS, 43-3 44-PBS, 45-3 46-PBS, 47-3 48-PBS, 49-3 50-PBS, 51-3 52-PBS, 53-3 54-PBS, 55-3 56-PBS, 57-3 58-PBS, 59-3 60-PBS, 61-3 62-PBS, 63-3 64-PBS, 65-3 66-PBS, 67-3 68-PBS, 69-3 70-PBS, 71-3 72-PBS, 73-3 74-PBS, 75-3 76-PBS, 77-3 78-PBS, 79-3 80-PBS, 81-3 82-PBS, 83-3 84-PBS, 85-3 86-PBS, 87-3 88-PBS, 89-3 90-PBS, 91-3 92-PBS, 93-3 94-PBS, 95-3 96-PBS, 97-3 98-PBS, 99-3 100-PBS
2. 150°C
3. 37
4. 70%
5. 15 8
6. 300 x g 3
7. 10
8. 10

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

## Flask Coating

[illegible]

**XXXXXXXXXXXX XXXXXX XX XXXX XXX XXX XXXXX XXXXXXX**

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX -78°C

[illegible]

## Sterility

**Abstract**

**XXXXXXXXXX XXXX XXXXX XXXXXXX, XXXXXXX XX XXXX, XXXXXXX XXXXX XXXXXXX XXXXXXX XXXXXXXXXX XXXXX.**