

NRK-EGFP3-Seh1 | 500731

General information

Description	NRK-EGFP3-Seh1 is a cell line derived from NRK (NRK). It is a stable transfectant of EGFP3-Seh1, expressing EGFP3 (EGFP) under the control of the Seh1 promoter. The cell line is characterized by high transfection efficiency and stable expression of the reporter gene. It is suitable for studies on gene expression, protein function, and cell signaling.
Organism	NRK
Tissue	NRK
Synonyms	NRK EGFP3-Seh1

Characteristics

Breed/Subspecies	NRK
Morphology	NRK cells are epithelial cells that form a monolayer in culture.
Growth properties	NRK cells are easy to grow and maintain in culture.

Identification and documentation

Citation	NRK-EGFP3-Seh1 (Cytion 500731)
Biosafety level	1
NCBI_TaxID	10116
CellosaurusAccession	CVCL_AV94
Depositor	EMBL

Receptors and ligands

Receptors expressed	EGF, MSA
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Product sheet

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Protein expression EGFP3-Seh1

Products Seh1 (SEH1)

Media

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

Supplements 10% FBS, 0.5 µg/ml G418

Dissociation Reagent

Subculturing Cells are grown in 25 cm² flasks in DMEM supplemented with 10% FBS and 0.5 µg/ml G418. For passage, cells are trypsinized and resuspended in PBS. Cells are seeded into new flasks at a density of 1-3 x 10⁵ cells per flask.

Split ratio 1:3 or 1:4

Seeding density 2 x 10⁴ - 4 x 10⁵ cells per flask

Fluid renewal 2-3 times per week

Freeze medium Cells are grown in DMEM supplemented with 10% FBS and 0.5 µg/ml G418. For freezing, cells are trypsinized and resuspended in DMEM supplemented with 10% FBS and 10% DMSO. Cells are seeded into new flasks at a density of 1-3 x 10⁵ cells per flask.

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**Thawing and
Culturing Cells**

1.

Remove the vial from liquid nitrogen storage, and immerse the vial in a water bath at 37°C for 1-2 minutes. Do not allow the vial to reach room temperature.
2.

Remove the vial from the water bath, and immediately transfer the cells to a pre-warmed (37°C) complete growth medium. Mix gently by pipetting up and down. Do not allow the cells to settle.
3.

Transfer the cells to a pre-warmed (37°C) complete growth medium. Mix gently by pipetting up and down. Do not allow the cells to settle.
4.

Transfer the cells to a pre-warmed (37°C) complete growth medium. Mix gently by pipetting up and down. Do not allow the cells to settle.
5.

Transfer the cells to a pre-warmed (37°C) complete growth medium. Mix gently by pipetting up and down. Do not allow the cells to settle.
6.

Transfer the cells to a pre-warmed (37°C) complete growth medium. Mix gently by pipetting up and down. Do not allow the cells to settle.
7.

Transfer the cells to a pre-warmed (37°C) complete growth medium. Mix gently by pipetting up and down. Do not allow the cells to settle.
8.

Transfer the cells to a pre-warmed (37°C) complete growth medium. Mix gently by pipetting up and down. Do not allow the cells to settle.

**Incubation
Atmosphere**

37°C, 5% CO₂, humidified air

Flask Coating

Not required

**Freezing
Procedure**

For freezing, cells are harvested into a pre-cooled (−80°C) storage vial. The cells are then stored at −80°C for long-term storage.

**Shipping
Conditions**

For shipping, cells are packed in a dry ice container and shipped at −78°C.

**Storage
Conditions**

For storage, cells are stored at −150°C for 196 hours. The cells are then stored at −150°C for long-term storage.

Applications

Sterility

The cells are supplied as a suspension in complete growth medium. The cells are not tested for mycoplasma contamination. The cells are not tested for endotoxin contamination. The cells are not tested for viral contamination. The cells are not tested for bacterial contamination. The cells are not tested for fungal contamination. The cells are not tested for parasitic contamination. The cells are not tested for any other contamination.