

Product sheet

NRK-EGFP2-Nup50 | 500726

Product Overview

Description NRK-EGFP2-Nup50 is a plasmid vector expressing the Nup50 protein fused to EGFP2. The Nup50 protein is a nucleoporin that is part of the nuclear pore complex. The EGFP2 tag allows for visualization of the protein in cells. The vector is derived from the NRK cell line (NRK).

Nup50 is a nucleoporin that is part of the nuclear pore complex. It is a large protein that is highly conserved across species. The Nup50 protein is involved in the transport of macromolecules across the nuclear envelope. The EGFP2 tag allows for visualization of the protein in cells.

Organism NRK

Tissue NRK

Synonyms NRK EGFP2-Nup50

Product Details

Breed/Subspecies NRK

Morphology NRK cells are fibroblastic in morphology.

Growth properties NRK cells are easy to grow and maintain in culture.

Product Information

Citation NRK-EGFP2-Nup50 (Cytion 500726)

Biosafety level 1

NCBI_TaxID 10116

CellosaurusAccession CVCL_AV93

Depositor Cytion (EMBL)

Product Applications

Receptors expressed EGFP2 (EGF), Nup50 (MSA)

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Protein expression	EGFP3-Nup50
Products	NUP50 (50)
Media	
Culture Medium	DMEM, w: 4.5 g/L D-glucose , w: 4 mM L- glutamine , w: 3.7 g/L NaHCO_3 , w: 1.0 mM $\text{beta-mercaptoethanol}$ (Cytion 820300a)
Supplements	10% FBS, 0.5 $\mu\text{g/ml}$ G418
Dissociation Reagent	
Subculturing	1:3 or 1:4 in Ca^{2+} and Mg^{2+} free PBS. 0.025% EDTA/0.02% $\text{beta-mercaptoethanol}$
Split ratio	1:3 or 1:4
Seeding density	2×10^4 cells/cm ²
Fluid renewal	2-3 times per week
Freeze medium	DMEM + 10% FBS + 10% DMSO

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Thawing and Culturing Cells

1. Thaw the cells rapidly in a water bath at 37°C. Transfer the cells to a pre-warmed medium.
2. Seed the cells into a pre-warmed flask containing 5-15 mL of medium. Incubate at 37°C with 5% CO₂.
3. Once the cells have attached, replace the medium with fresh pre-warmed medium.
4. Monitor cell growth and confluency. Harvest cells when they reach 70-80% confluency.
5. For primary cell culture, passage cells into a new flask when they reach 70-80% confluency.
6. For cell lines, passage cells into a new flask when they reach 70-80% confluency.
7. For cell lines, passage cells into a new flask when they reach 70-80% confluency.
8. For cell lines, passage cells into a new flask when they reach 70-80% confluency.

Incubation Atmosphere

37°C, 5% CO₂, humidified

Flask Coating

Yes

Freezing Procedure

Resuspend cells in freezing medium and freeze in a controlled rate freezer at -80°C.

Shipping Conditions

Store at -80°C and ship on dry ice.

Storage Conditions

Store at -150°C for up to 196 weeks.

Genotype / HLA

Sterility

Cells are tested for mycoplasma contamination using PCR. Cells are also tested for endotoxin levels.