

Product sheet

NRK-4xlambdaN22-3xmEGFP-M9 | 500672

NRK-4xlambdaN22-3xmEGFP-M9

Description NRK-4xlambdaN22-3xmEGFP-M9 is a mouse strain carrying a transgene (NRK) under the control of a 4xlambdaN22 promoter. The transgene encodes a 3xmEGFP-M9 protein. The strain is derived from a cross between a 50% transgenic mouse and a non-transgenic mouse. The transgene is flanked by loxP sites and can be excised using Cre recombinase. The excised transgene is expressed as RNA, which is then translated into protein.

Organism Mouse

Tissue Liver

Synonyms NRK 4xIN22-3xmEGFP-M9

Characteristics

Breed/Subspecies C57BL/6J

Morphology Mice are born with a normal appearance and grow normally.

Growth properties Mice are born with a normal appearance and grow normally.

Genetic information

Citation NRK-4xlambdaN22-3xmEGFP-M9 (Cytion 500672)

Biosafety level 1

NCBI_TaxID 10116

CellosaurusAccession CVCL_AV97

Depositor Cytion (EMBL)

Receptors expressed

EGF, MSA

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Protein expression	4xλN22-3xmEGFP-M9: 937..1009, 1066..1138, 1194..1261, 1323..1390 / 1462..2176, 2179..2890, 2896..3612 mEGFP, 3612..3815 / M9-His, 5090..5884 / KanR/NeoR, 7195..584 / Pcmv
Products	M9-His BsrG1/HindIII, Neomycin, Phosphotransferase, CMV Promotor
XXXXXXXXXX	
Culture Medium	DMEM, w: 4.5 g/L XXXXXXXX, w: 4 mM L-XXXXXXX, w: 3.7 g/L NaHCO3, w: 1.0 mM XXXX XXXXXXXX (XXXX XXXXXXXX Cytion 820300a)
Supplements	XXXX XXXXXXXX 10% FBS, 0.5 μg/ml G418
Dissociation Reagent	XXXXXX
Subculturing	XX XXXXXXXX XX XXXXXXXX XXXX XXXXXXXX XX XXXXXXXX X-PBS. XX XXXXXXXX XXXXXXXX XXXXXXXX 0.025%/EDTA 0.02% XXXXXXXX XX XXX, XXXXXXXX X-37
Split ratio	XXXXXX XXXXXXXX XXXXXXXX XX 1:3 XX 1:4
Seeding density	2 XX 4 x 10 ⁴ /XX
Fluid renewal	2 XX 3 XXXXXXXX XXXXXXXX
Freeze medium	XXXXXXXXX XXXXXXXX XXXXXXXX, XXXX XXXXXXXX XXXXXXXX XXXXXXXX XXXX (XXXX FBS) + 10% DMSO XXXX XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX, XX C

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Thawing and Culturing Cells

1. Thaw the vial quickly in a 37°C water bath. Transfer the cells to a pre-warmed tube.
2. Add 10 ml of pre-warmed cell culture medium to the tube. Gently mix the cells.
3. Centrifuge the cells at 300 x g for 3 minutes. Remove the supernatant.
4. Resuspend the cells in 10 ml of pre-warmed cell culture medium. Adjust the cell density to 70% confluency.
5. Seed the cells into a 15 cm² flask with 8 cm² of pre-warmed cell culture medium.
6. Incubate the cells at 37°C with 5% CO₂ until they reach 70-80% confluency.
7. Harvest the cells by trypsinization into 10 ml of pre-warmed cell culture medium.
8. Seed the cells into a 15 cm² flask with 8 cm² of pre-warmed cell culture medium.

Incubation Atmosphere 37°C, 5% CO₂, humidified air

Flask Coating No coating

Freezing Procedure Harvest cells by trypsinization into 10 ml of pre-warmed cell culture medium. Seed cells into a 15 cm² flask with 8 cm² of pre-warmed cell culture medium. Incubate at 37°C with 5% CO₂.

Shipping Conditions Store at -78°C in a dry ice container.

Storage Conditions Store at -150°C for up to 196 weeks.

Genotype / HLA

Sterility The cells are free of mycoplasmas and PCR detectable endogenous retroviruses.

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STR

Rat_D1Wox31: 96,1
Rat_D2Wox37: 150,156
Rat_D19Wox11: 220
Rat_D10Wox8: 266,27
Rat_D4Wox7: 153,157
Rat_D2Wox27: 211,215
Rat_D5Rat33: 122,138
Rat_D10Wox11: 156
Rat_D1Wox23: 210,214
Rat_D12Wox1: 402,406
Rat_D6Wox2: 104,124
Rat_D8Wox7: 185
Rat_D6Cebr1: 223,233
SRY: x,Y