



C ; 1 2 9NSg-^{tm1Jae}/ J

Stock No: 002124 | p75^{NGFR}

Targeted Mutation



CRYO RECOVERY

P L A C E O R D E R

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

Overview

Also Known As: p75^{NGFR}

Mice homozygous for the *Ngfr*^{tm1Jae} mutation display a decreased cutaneous innervation by calcitonin gene-related peptide- and substance P-immunoreactive sensory fibers. Pineal glands lack sympathetic innervation, and innervation to sweat glands on foot pads is either reduced or absent. p75-deficient dorsal root ganglion and superior cervical ganglion neurons show a 2- to 3-fold decrease in sensitivity to nerve growth factor at embryonic day 15 and postnatal day 3, respectively.

Donating Investigator

Rudolf Jaenisch, Whitehead Institute, Massachusetts Institute of Technology

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

Ngfr^{tm1Jae}

Allele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Ngfr

nerve growth factor receptor (TNFR superfamily, member 16)

VIEW GENETICS

RESEARCH APPLICATIONS

Sensorineural Research

Apoptosis Research

Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

Mice homozygous for the *Ngfr^{tm1Jae}* mutation are viable and fertile. They display a decreased cutaneous innervation by calcitonin gene-related peptide- and substance P-immunoreactive sensory fibers. Because of this decreased innervation they develop ulcers on their toes by 4 months of age. The toes become inflamed and progressively infected. There is also reduced sensitivity to heat in the extremities of these mice. Pineal glands lack sympathetic innervation and innervation to sweat glands on foot pads is either reduced or absent. Deficits in the peripheral nervous system were examined by looking at cellular responses of p75-deficient dorsal root ganglion (DRG) and superior cervical ganglion (SCG) neurons to different neurotrophins. p75-deficient DRG and SCG neurons displayed a 2- to 3-fold decreased sensitivity to NGF at embryonic day 15 and postnatal day 3, respectively. These ages coincide with the peak of naturally occurring cell death.

Development

Control Suggestions

[+ Selected References](#)

[- Genetics](#)

[+ *Ngfr^{tm1Jae}*](#)

[- Disease/Phenotype](#)

[+ Disease Terms](#)

[+ Research Areas By Genotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

[- Technical Support](#)

T E C H N I C A L S P P O R T C H A T

C O N T A C T T E C H N I C A L S U P P O R T

Genotyping Protocols

Standard PCR: [Ngfr^{tm1Jae}](#)

Standard PCR: [Ngfr^{tm1Jae}](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

The *Ngfr^{tm1Jae}* strain is maintained by mating homozygous siblings. Homozygous mice may be ordered. The feet of these mice tend to become sore and to bleed because of the loss of sensory nerves. They need to be handled very carefully to minimize these problems. The lifespan is normal. Expected coat color from breeding: White Bellied Agouti

[Additional Breeding and Husbandry Support](#)

Appearance

white-bellied agouti

Related Genotype: A^w/A^w

Citation

When using the ^{NGFR} *n75* mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #002124 in your

Animal Health Reports

[Materials and Methods section](#)

[Facility Barrier Level Descriptions](#)

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, [G200](#)

[- Pricing & Availability](#)



Cryo Recovery

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

Cryorecovery - Domestic Pricing

SERVICE	GENOTYPE	PRICE
Cryo Recovery	Heterozygous for Ngfr<tm1Jae>	\$2,854.50

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a [Dedicated Supply](#) for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

Payment Terms and Conditions

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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Terms of Use

[General Terms and Conditions](#)

Q U E S T I O N S A B O U T T E R M S O F U S E

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Phone: 207-288-6470

Email: TechTran@jax.org

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