

**B6.129S4-Ngfr<sup>tm1Jae</sup>/J**  
Stock No: **002213** | p75<sup>NGFR</sup>

◆ Congenic, Targeted Mutation

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

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and substance P-immunoreactive sensory fibers. Dorsal root ganglion and superior cervical ganglion neurons deficient in p75 displayed a two- to three-fold decreased sensitivity to nerve growth factor at embryonic day 15 and postnatal day three, respectively.

### Donating Investigator

IMR Colony, The Jackson Laboratory

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## GENETIC OVERVIEW

### Genetic Background

000664 C57BL/6J

### Generation

*Ngfr<sup>tm1Jae</sup>*

### Allele Type

Targeted (Null/Knockout)

### Gene Symbol

*Ngfr*

### Gene Name

nerve growth factor receptor (TNFR superfamily, member 16)

VIEW GENETICS

## RESEARCH APPLICATIONS

Neurobiology Research  
Sensorineural Research  
Apoptosis Research

VIEW ALL RESEARCH APPLICATIONS

## BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W   P R I C E   L I S T

### Details

#### Detailed Description

Mice homozygous for the *Ngfr*<sup>tm1Jae</sup> 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 four 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 two- to three-fold decreased sensitivity to NGF at embryonic day 15 and postnatal day three, respectively. These ages coincide with the peak of naturally occurring cell death. p75-deficient embryonic hippocampal neurons in culture and forebrain neurons in adult mice are resistant to Abeta(1-42) induced neuronal degeneration.

#### Development

#### Control Suggestions

#### Selected References

### Genetics

#### *Ngfr*<sup>tm1Jae</sup>

### Disease/Phenotype

[+ Disease Terms](#)

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[+ Research Areas By Phenotype](#)

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[+ Mammalian Phenotype Terms by Genotype](#)

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[+ References](#)

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## [- Technical Support](#)

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](#)

[Standard PCR:Ngfr](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

[This strain is a challenging breeder.](#)

When maintaining a live colony, heterozygous mice may be bred together. Although homozygous mice are viable and fertile, recovery of homozygotes is reduced in a heterozygous x heterozygous or heterozygous x homozygous mating. 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 is black.

### [Additional Breeding and Husbandry Support](#)

### Appearance

black

Related Genotype: *a/a*

### Citation

When using the p75<sup>NGFR</sup> mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #002213 in your Materials and Methods section.

### Animal Health Reports

[Facility Barrier Level Descriptions](#)

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

## [- Pricing & Availability](#)



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## Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

### CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Homozygous for Ngr<tm1Jae>	\$2,854.50

## 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.

## THE JACKSON LABORATORY'S GENOTYPE PROMISE

The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. **Therefore, we cannot guarantee a strain's phenotype will meet all expectations.** To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project. We do not guarantee [breeding performance](#) and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

## Terms Of Use

### TERMS OF USE

[General Terms and Conditions](#)

QUESTIONS ABOUT TERMS OF USE

### ADDITIONAL USE RESTRICTIONS APPLY

[Use of MICE by companies or for-profit entities requires a license prior to shipping.](#)

### LICENSING INFORMATION

Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)

## Related Strains

All

By Allele

By Gene

By Collection



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