STOCK Ntf3 tm1.Jae/J

Stock No: 002276 | NT-3-

Targeted Mutation

CRYO RECOVERY

PLACE ORDER

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

Overview

Also Known As: NT-3-

These Ntf3 knock-out mice exhibit a loss of peripheral sensory and sympathetic neurons resulting in limb ataxia.

Donating Investigator

Dr. Rudolf Jaenisch, Whitehead Institute (MIT)

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GENETIC OVERVIEW

<table>
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<th>Genetic Background</th>
<th>Generation</th>
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<td>Ntf3&lt;sup&gt;tm1Jae&lt;/sup&gt;</td>
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**Allele Type** | **Gene Symbol** | **Gene Name**
---|---|---
Targeted (Null/Knockout) | Ntf3 | neurotrophin 3

RESEARCH APPLICATIONS

Apoptosis Research
Cancer Research
Developmental Biology Research
Immunology, Inflammation and Autoimmunity Research
Neurobiology Research

BASE PRICE
Starting at:
$2,595.00 Domestic price Cryo Recovery

Details

**Detailed Description**
Mice homozygous for the Ntf3<sup>tm1Jae</sup> targeted mutation are smaller than their normal littermates and most die shortly after birth. Survivors die prior to weaning. They display limb ataxia, an inability to position the limbs properly when attempting to move, and there is a tendency for all four limbs to intermittently stiffen in an extensor posture. Autopsy showed all peripheral ganglia markedly smaller in the mutant. Spinal proprioceptive afferents and their peripheral sense organs are completely absent. Heterozygous mice appear normal; however, the number of muscle spindles in heterozygotes is half that of normal wildtype siblings. There is approximately a 50% reduction in the sympathetic superior cervical ganglion (SCG) neurons caused by excessive apoptosis of sympathetic neuroblasts during neurogenesis.

**Development**

**Control Suggestions**

**Selected References**
Genotyping Protocols
Standard PCR: Ntf3<sup>tm1Jae</sup>
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, heterozygous mice may be bred to wildtype siblings. Homozygotes die shortly after birth. The expected coat colors from breeding are black, brown and white.

Additional Breeding and Husbandry Support

Appearance
multiple coat colors
Related Genotype: segregating for A<sup>w</sup>, Tyrp1<sup>h</sup>, and Tyr<sup>c</sup>

Citation
When using the NTL-2 mouse strain in a publication, please cite the originating article(s) and include JAX stock #002276 in your Materials and Methods section.

Animal Health Reports
Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

Pricing & Availability

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

**Terms of Use**
General Terms and Conditions

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**Licensing Information**
Phone: 207-288-6470
Email: TechTran@jax.org

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains
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Shipments have begun at our new facility, allowing increased access to JAX mouse models.