B6.129S7-Ngfrtm1Gne/J

Stock No: 003312 | NGF KO

Congenic, Targeted Mutation

REQUEST CRYORECOVERY

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

Also Known As: NGF KO

These Ngf knock-out mice exhibit short life spans with delayed development and cell loss in sympathetic ganglia. They are suitable for use in studies related to the effect of nerve growth factor on neuron development.

Donating Investigator

Dr. Heidi Phillips, Genentech, Inc.

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GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ngfrtm1Gne</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Ngf</td>
<td>nerve growth factor</td>
</tr>
</tbody>
</table>

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research
Cancer Research
Developmental Biology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE
Starting at:
Details

Detailed Description

Mice homozygous for the disrupted Nfkb gene are born alive, but are smaller, on average, than wild type or heterozygous individuals. They fail to thrive and have a life span of 4 weeks or less, often dying within the first three days of life. Mutant mice are developmentally delayed and exhibit severe cell loss in sympathetic ganglia. They exhibit a more selective cell loss in sensory ganglia, revealing a reduced number of small cells in the dorsal root ganglia (DRG) at 3 days of age, while large cell numbers in the DRG are comparable to wild type mice. Mutant mice also display a decreased responsiveness to pain in comparison to +/- or +/- littermates. During the first month of life, survival of cholinergic neurons in the basal forebrain does not appear to be affected by absence of NGF, as these cells were observed to differentiate and maintain their phenotype throughout the life span of homozygous mutant mice. Mice heterozygous for the Nfkb gene disruption exhibit normal growth and development and breed normally.

Control Suggestions

Selected References

Genetics

Nfkb<sup>tm1Gne</sup>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
Standard PCR: Ngf^{tm1Gne}
MELT: Generic Neo
MELT: Generic Neo
Probe: Generic Neo
Probe: Generic Neo
Genotyping resources and troubleshooting

Breeding Considerations
3/31/00: per Debbie Mayo: B6 x +/- or +/- x B6 The investigator maintains the strain by backcrossing heterozygotes to C57BL/6. Homozygotes die by 4 weeks of age.

Additional Breeding and Husbandry Support

Citation
When using the Ngf^{tm1Gne} mouse strain in a publication, please cite the originating article(s) and include JAX stock #003312 in your 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

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

<table>
<thead>
<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or wildtype for Ngf^{tm1Gne}</td>
<td>$2,595.00</td>
</tr>
</tbody>
</table>

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.

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