STOCK Nog tm1.1Rmh/J

Stock No: 016117

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

These floxed mutant mice possess loxP sites flanking the coding region of the noggin gene. This strain may have applications in studying bone morphogenetic protein signaling during embryonic development and in postnatal tissues.

Donating Investigator

Richard Harland, University of California, Berkeley
GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
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<tbody>
<tr>
<td>Nog&lt;sup&gt;tm1.1Rmh&lt;/sup&gt;</td>
<td></td>
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<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Targeted (Conditional ready (e.g. floxed), No functional change)</td>
<td>Nog</td>
<td>noggin</td>
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</tbody>
</table>

RESEARCH APPLICATIONS

Developmental Biology Research
Neurobiology Research
Research Tools

BASE PRICE

Starting at:

$2,595.00 Domestic price Cryo Recovery

Details

Detailed Description

In this strain loxP sites flank the coding region of the Noggin (Nog) gene. Homozygous mice are viable, fertile, normal in size, and do not display any gross physical or behavioral abnormalities. NOGGIN is a secreted protein involved in embryonic development including bone development, joint formation, and neural tube fusion. It also plays a role in neural induction, where it inhibits the bone morphogenetic protein (BMP)-signaling pathway. NOGGIN also inhibits Transforming growth factor (TGF)- signal transduction by binding to TGF- family ligands and preventing them from binding to their corresponding receptors. When bred to mice that express tissue-specific Cre recombinase, resulting offspring will not express NOGGIN in the cre-expressing tissues. This strain may be useful for studying BMP-signaling during embryonic development and in postnatal tissues.

For example, when crossed to a strain expressing Cre recombinase in embryonic cells (see Stock No. 003376), this mutant mouse strain may be useful in studies of axial skeleton development.

Development

Expression Data
Genotyping Protocols
Probe: Gt(rosa)26sor^{Tm1Sor} Probe
Standard PCR: Nog^{Tm1.1Rmh alternate2}
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, homozygous mice may be bred together.
Additional Breeding and Husbandry Support

Citation
When using the STOCK Nog^{Tm1.1Rmh} /J mouse strain in a publication, please cite the originating article(s) and include JAX stock #016117 in your Materials and Methods section.

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.

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.
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**Related Strains**

- All
- By Allele
- By Gene
- By Collection