B6.129-Nlgn3^{tm4Sud/J}

Stock No: 023398

Congenic Targeted Mutation

PLACE ORDER

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

Overview

This strain constitutively expresses a mutant form of Nlgn3 (neuroligin 3; L399A, N400A, D402N, E297A, and K306A) fused to a cytoplasmic monomeric green fluorescent Venus tag. LoxP sites in the exon 2-exon 3 region enable the generation of conditional knockouts through cre-mediated excision.

Donating Investigator

Dr. Thomas C. Sudhof, Stanford University School of Medicine

Stephan Maxeiner, Stanford University
GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td><strong>Nlgn3&lt;sup&gt;tm4Sud&lt;/sup&gt;</strong></td>
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</table>

**Allele Type**
Targeted (Conditional ready (e.g. floxed), Reporter, Inserted expressed sequence)

<table>
<thead>
<tr>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Nlgn3</td>
<td>neurogin 3</td>
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RESEARCH APPLICATIONS

Research Tools
Neurobiology Research

BASE PRICE
Starting at:

$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description
A group of mutations in the Nlgn1 (neuroligin 1) gene that inhibit binding to alpha and beta neurexins have been identified. These are L399A, N400A, D402N, E297A, and K306A.

This strain constitutively expresses an X-linked mutant form of Nlgn3 carrying the equivalent of the Nlgn1 L399A, N400A, D402N, E297A, and K306A mutations fused to a cytoplasmic monomeric green fluorescent Venus tag. LoxP sites enable conditional knockout of Nlgn3 through cre-mediated excision. Quantitative RT-PCR reveals decreased levels of the knockin transcript. The transcription of Nlgn3 flanked by loxP sites (after excision of an Frt-flanked portion of the construct) is indistinguishable from wild type mice. MVenus is detectable through immunoblotting.

Development
Genotyping Protocols
Standard PCR: Nlgn3\textsuperscript{tm4Sud}
Genotyping resources and troubleshooting

Breeding Considerations
Nlgn3 is X-linked. Hemizygous males and heterozygous females are viable and fertile.
Additional Breeding and Husbandry Support

Citation
When using the B6.129-Nlgn3\textsuperscript{tm4Sud} /J mouse strain in a publication, please cite the originating article(s) and include JAX stock #023398 in your Materials and Methods section.

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

Pricing & Availability
A molecular assay to genotype this strain is not available. We will fulfill your order by providing at least two untested males and two untested females (two pairs). The total number, sex, and genotypes will vary, although typically 8 or more mice are provided. Untested animals typically are available to ship between 10 and 14 weeks from the date of your order. If the first recovery attempt is unsuccessful, a second recovery will be done, extending the overall recovery time to approximately 25 weeks. Progeny testing may be required – If recovered animals do not display a phenotype, progeny testing will be required. This testing involves breeding the recovered animals and assessing the phenotype of the offspring in order to identify animals carrying the mutation of interest. Please note that identified pairs may not reflect the mating scheme utilized by The Jackson Laboratory prior to cryopreservation of the strain. Mating schemes are sometimes modified for successful cryopreservation. 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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Phone: 207-288-6470
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- By Allele
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