B6.129P2-Ncam1<sup>tm1Cgn</sup>/J

Stock No: 002405 | N-CAM 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: B6.129P2-Ncam<sup>tm1Cgn</sup>, N-CAM KO

These Ncam1 knock-out mice exhibit deficits in spatial learning with reduction in brain weight and olfactory bulb size.

Donating Investigator

Klaus Rajewsky, Max Delbruck Centre for Molecular Medicine

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GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
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<tbody>
<tr>
<td>Ncam&lt;sup&gt;tm1Cgn&lt;/sup&gt;</td>
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<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tr>
<td>Targeted (Null/Knockout)</td>
<td>Ncam1</td>
<td>neural cell adhesion molecule 1</td>
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VIEW GENETICS

RESEARCH APPLICATIONS

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

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE
Starting at:
Details

Detailed Description
Mice homozygous for the Ncam\textsuperscript{tm1Cgn} targeted mutation show a 10% reduction in overall brain weight and 36% reduction in olfactory bulb size. Motor end plates were 14% smaller in NCAM-deficient mice compared to controls, and the formation of junctional folds was delayed. They also show deficits in spatial learning and in the amount of protein-bound alpha-(2,8)-linked polysialic acid. Both homozygous and heterozygous mutant mice are reportedly more aggressive than wildtype controls.

Control Suggestions

Selected References

Genetics

Ncam\textsuperscript{tm1Cgn}

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols
Standard PCR: Ncam\textsuperscript{tm1Cgn}
Genotyping resources and troubleshooting

Breeding Considerations
This strain is difficult to breed homozygously. The suggested breeding scheme is heterozygote x C57BL/6. The expected coat color from breeding is black.
Additional Breeding and Husbandry Support
Appearance
black
Related Genotype: a/a

Citation
When using the N.CAM.KO mouse strain in a publication, please cite the originating article(s) and include JAX stock #002405 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>Domestic</th>
<th>International</th>
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<tbody>
<tr>
<td>Pricing effective for USA, Canada and Mexico shipping destinations</td>
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</table>

<table>
<thead>
<tr>
<th>Cryorecovery – Domestic Pricing</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or Wildtype for Ncam1&lt;tm1Cgn&gt;</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.

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.

<table>
<thead>
<tr>
<th>Related Products and Services</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
<td>$2,595.00 per straw or vial</td>
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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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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
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**Licensing Information**

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

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