BALB/cNctr-Npc1\textsuperscript{m1N/J}

Stock No: 003092 | npc\textsuperscript{nih}

- Spontaneous Mutation

Also Known As: npc\textsuperscript{nih}

Mice homozygous for the recessive NIH allele of the Niemann Pick type C1 gene (Npc1\textsuperscript{m1N}) show a dual deficiency of sphingomyelinase and glucocerebrosidase activity. The overall phenotype resembles the sphingomyelinosis condition seen in mice homozygous for the sphingomyelinosis allele (Npc1\textsuperscript{som}, Stock No. 002760). Sphingomyelinosis closely resembles that of human Niemann-Pick Type C disease patients.

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>?+F44 (2017-07-19 00:00:00)</td>
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</table>

Npc1\textsuperscript{m1N}

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spontaneous</td>
<td>Npc1</td>
<td>NPC intracellular cholesterol transporter 1</td>
</tr>
</tbody>
</table>

RESEARCH APPLICATIONS

- Neurobiology Research
- Mouse/Human Gene Homologs
- Internal/Organ Research
- Metabolism Research
- Research Tools

BASE PRICE
Starting at:

$76.22 Domestic price for female
$331.22 Domestic price for breeder pair

Details

Development

Control Suggestions

Genetics

Npc\textsuperscript{m1N}

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols
Separated PCR: Npc\textsuperscript{m1N}
Separated MCA: Npc1
High Resolution Melting: Npc\textsuperscript{m1N} Alternate1
Genotyping resources and troubleshooting

Dietary Information
LabDiet\textsuperscript{R} 5K52 formulation (6% fat)

Breeding Considerations
When maintaining a live colony, heterozygous mice may be bred to wildtype siblings. Homozygotes die at about 12 to 14 weeks of age.
Additional Breeding and Husbandry Support
Mating System
+/+ sibling x Heterozygote

Appearance
albino, ataxic, tremors
Related Genotype: a/a Tyrf1b/Tyrf1b Tyrc1c/Tyrc1c Npc1m1N/Npc1m1N

albino, unaffected
Related Genotype: a/a Tyrf1b/Tyrf1b Tyrc1c/Tyrc1c Npc1m1N/+ or +/+

Citation
When using the mouse strain in a publication, please cite the originating article(s) and include JAX stock #003092 in your Materials and Methods section.

Facility Barrier Level Descriptions

FGB29 (Standard)

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Pricing & Availability

3–6 week average lead time depending on quantity and age requests are not accepted

Repository Live

<table>
<thead>
<tr>
<th>Domestic</th>
<th>International</th>
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### Live Mouse

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Heterozygous for Npc1m1N</td>
<td>$255.00</td>
</tr>
<tr>
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<td>Wild-type for Npc1m1N</td>
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### Breeder Pair

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<tr>
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<th>GENOTYPE</th>
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<tbody>
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<td>Female</td>
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Related Products and Services

- Frozen Mouse Embryo: $2,595.00 per straw or vial

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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General Terms and Conditions

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

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Related Strains

<table>
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<tr>
<th>All</th>
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</thead>
<tbody>
<tr>
<td>By Allele</td>
</tr>
<tr>
<td>By Gene</td>
</tr>
<tr>
<td>By Collection</td>
</tr>
</tbody>
</table>

All Related Strains
Leading the search for
TOMORROW'S CURES