Overview

These transgenic mice express the human NPC1 (Niemann-Pick disease, type C1, gene)-like 1 (NPC1L1) gene under the control of the human apolipoprotein E (APOE) promoter and hepatic control region. This mutant mouse strain exhibits decreased biliary cholesterol levels, which is associated with increased plasma cholesterol levels, and may be useful in studies related to lipid metabolism and cholesterol transport.
Donating Investigator
Liqing Yu, Wake Forest Univ. School of Medicine

GENETIC OVERVIEW
Genetic Background Generation

Tg(APOE-NPC1L1)20Lqyu

Allele Type
Transgenic (Inserted expressed sequence, Humanized sequence)

RESEARCH APPLICATIONS
Metabolism Research
Internal/Organ Research

BASE PRICE
Starting at:
$2,854.50 Domestic price Cryo Recovery

Details

Detailed Description
These transgenic mice express the human NPC1 (Niemann-Pick disease, type C1, gene)-like 1 (NPC1L1) gene under the control of the human apolipoprotein E (APOE) promoter and hepatic control region. Transgene expression is detected in liver by Western blot analysis and is localized to the canalicular membrane. Transgenic mice exhibit decreased biliary cholesterol levels, which is associated with increased plasma cholesterol levels (mostly apoE-rich HDL particles). Biliary phospholipid and bile acid levels are not affected. Mice that are hemizygous for the transgene are viable, normal in size and do not display any gross physical or behavioral abnormalities. The Donating Investigator has not attempted to make this strain homozygous. This mutant mouse strain may be useful in studies of lipid metabolism and cholesterol transport.

Development
Genotyping Protocols
Standard PCR: Tg(APOE-NPC1L1)20Lqyu
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, these mice can be bred as hemizygotes. The Donating Investigator maintained the strain as a hemizygote.
Additional Breeding and Husbandry Support

Citation
Animal Health Reports
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>Cryorecovery - Domestic Pricing</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Hemizygous or Non carrier for Tg(APOE-NPC1L1)20Lqyu</td>
<td>$2,854.50</td>
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</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>
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<tr>
<th>Related Products and Services</th>
<th>Price</th>
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<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 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.

**Terms Of Use**

Terms of Use

*General Terms and Conditions*

**Questions About Terms of Use**

**Additional Use Restrictions Apply**

*Use of MICE by companies or for-profit entities requires a license prior to shipping.*

**Licensing Information**
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Related Strains

- All
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- By Gene