B6N.129S-Havcr2<sup>tm18med/J</sup>

Stock No: 021883 | Tim3<sup>mut</sup>

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

Also Known As: Tim3<sup>mut</sup>
The Tim3<sup>mut</sup> mutant has a deletion of the terminal portion of the Tim3 cytoplasmic domain, resulting in defective CD8+ T cell effector function, enhanced negative regulatory activity, and absence of gal-9-mediated apoptosis.

Donating Investigator
GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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</thead>
<tbody>
<tr>
<td><strong>Havcr2&lt;sup&gt;tm1Bmed&lt;/sup&gt;</strong></td>
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<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Targeted (Not Applicable)</td>
<td>Havcr2</td>
<td>hepatitis A virus cellular receptor 2</td>
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RESEARCH APPLICATIONS

Research Tools
Internal/Organ Research
Immunology, Inflammation and Autoimmunity Research
Cell Biology Research
Apoptosis Research
Virology Research

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

Details

Detailed Description

The Tim3<sup>mut</sup> targeted mutation h21883 as the terminal portion of the Tim3 cytoplasmic domain (amino acids 263-280) replaced with a zeomycin-resistance cassette, while preserving other regions of the cytoplasmic tail (including the highly conserved tyrosine kinase motif [mouse Y256]). The Tim3<sup>mut</sup> mutation results in normal expression of RNA encoding the extracellular domain (normal surface expression of the Tim3 extracellular domain), but no expression of RNA encoding the deleted cytoplasmic domain region.

Homozygous mice are viable and fertile, with normal size and appearance. Homozygous deletion of the Tim3 terminal cytoplasmic domain results in significant defect in CD8+ T cell effector function, but no signaling differences in CD4+ T cells. Tim3<sup>mut</sup> homozygosity results in enhanced suppressive function/negative regulatory activity of Tim3, and absence of gal-9-mediated apoptosis. Tim3<sup>mut</sup> homozygous mice infected with influenza A exhibit decreased IFN-γ RNA expression and decreased
Genotyping Protocols
High Resolution Melting: Hacr2\(^{tm1Bmed}\)-Alternate 1
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, heterozygous mice may be bred together, to wildtype mice from the colony, or to C57BL/6NJ inbred mice (Stock No. 005304). Homozygous mice are also viable and fertile, and may be bred together.

Additional Breeding and Husbandry Support

Citation
When using the Tim3\(^{mut}\) mouse strain in a publication, please cite the originating article(s) and include JAX stock #021883 in your

Animal Health Reports
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.

<table>
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<tr>
<th>Domestic</th>
<th>International</th>
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<tbody>
<tr>
<td><strong>Cryorecovery - Domestic Pricing</strong></td>
<td><strong>Pricing effective for USA, Canada and Mexico shipping destinations</strong></td>
</tr>
<tr>
<td>SERVICE</td>
<td>GENOTYPE</td>
</tr>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous for Hacr&lt;sup&gt;2&lt;/sup&gt;tm1Bmed&lt;sup&gt;+&lt;/sup&gt;</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>
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<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
<td>$2,595.00 per straw or vial</td>
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</table>

**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<sup>®</sup> Mice strains as well as the genotypes of strains with identified molecular mutations. JAX<sup>®</sup> 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<sup>®</sup> 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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Terms of Use
General Terms and Conditions

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**Related Strains**

- All
- By Allele
- By Gene