Overview

Also Known As: Timp1^- Homozygous females and hemizygous males have increased resistance to corneal and pulmonary infection, and have altered immune, hematopoietic, and vascular permeability. Mice with this X-linked targeted mutation may be useful in studies of cornea and pulmonary infection, pulmonary injury and aneurysm, and antibiotic-resistant pulmonary infections, such as those often observed in cystic fibrosis patients.

Donating Investigator
GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Timp1</td>
<td>tissue inhibitor of metalloproteinase 1</td>
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RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research
Research Tools
Internal/Organ Research
Cardiovascular Research

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

Details

Detailed Description

Homozygous females and hemizygous males (the gene is X-linked) are viable and fertile. No endogenous transcript is detected in lung tissue from affected mice by Northern blot analysis. Homozygous mice have increased resistance to corneal and pulmonary infection with P. aeruginosa, and have altered immune, hematopoietic, and vascular permeability in bleomycin-induced lung injury trials. Homozygotes also show increased and continued progression of aneurysm formation compared with wild-type mice in induced thoracic aortic aneurysm (TAA) models. Mice with this X-linked targeted mutation may be useful in studies of cornea and pulmonary infection, pulmonary injury and aneurysm, as well as of P. aeruginosa resistance in individuals with unresolved, antibiotic-resistant pulmonary infections, such as those often observed in cystic fibrosis patients.

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic...
Genotyping Protocols
High Resolution Melting: Timp1^{tm1Pds alternate2}
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, homozygous females are bred to hemizygous males.

Additional Breeding and Husbandry Support

Citation
When using the Timp1 mouse strain in a publication, please cite the originating article(s) and include JAX stock #006243 in your Materials and Methods section.

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

Cryo recovery 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.

**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® 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**

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**General Terms and Conditions**

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**Licensing Information**
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Email: TechTran@jax.org

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains