B6.129S2(SJL)-Trim28<sup>tm1.1lp/J</sup>

Stock No: 018552 | Tif1b-

- Congenic, Targeted Mutation

**CRYO RECOVERY**

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

**Also Known As: Tif1b-**

These mice possess loxP sites flanking exons 4-14 of the tripartite motif-containing 28 (Trim28) gene and have applications in studies related to epigenetic modification, pre-implantation embryonic development, and transcriptional repression.

**Donating Investigator**

Dr. Barbara Knowles, Institute of Medical Biology

Pierre Chambon, IGBMC/GIE-CERBM

**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Trim28&lt;sup&gt;tm1.1lp/J&lt;/sup&gt;</strong></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Conditional ready (e.g. floxed), No functional change)</td>
<td>Trim28</td>
<td>tripartite motif-containing 28</td>
</tr>
</tbody>
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**RESEARCH APPLICATIONS**

- Research Tools
- Developmental Biology Research
Details

Detailed Description

The Trim28 gene encodes a protein that acts as a transcriptional corepressor, with an important role in chromatin remodeling, genomic imprinting and DNA methylation in pre-implantation development, as well as thymocyte development regulation. These mice possess loxP sites on either side of exons 4 through 14 of the targeted Trim28 gene. Mice that are homozygous for this allele are viable and fertile. When these mutant mice are bred to mice that express Cre recombinase, resulting offspring will have exons 4 through 14 deleted in the cre-expressing tissues.

When bred to a strain with Cre recombinase expression in oocytes (see Stock No. 003651 for example), this mutant mouse strain may be useful in studies of pre-implantation embryonic development.

Development

Control Suggestions

Selected References

Genetics

Trim28<sup>in1.1ip</sup>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
MELT: Trim28<tm1.1Ipc
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, these mice can be bred as homozygotes.
Additional Breeding and Husbandry Support

Citation
When using the Tml1 mouse strain in a publication, please cite the originating article(s) and include JAX stock #018552 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>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous for Trim28&lt;tm1.1Ipc&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.

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains