Overview

Mice that are homozygotes for this Tnfsf8 knockout strain are not as susceptible to graft versus host disease when compared to wildtype controls.

Donating Investigator

Eckhard R. Podack, University of Miami
**GENETIC OVERVIEW**

Genetic Background | Generation
---|---

**Tnfsf8<sup>tm1Pod</sup>**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Tnfsf8</td>
<td>tumor necrosis factor (ligand) superfamily, member 8</td>
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</tbody>
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**RESEARCH APPLICATIONS**

Immunology, Inflammation and Autoimmunity Research

**BASE PRICE**

Starting at:

$2,854.50 Domestic price Cryo Recovery

Mice that are homozygous for this knockout of *Tnfsf8*, tumor necrosis factor (ligand) superfamily, member 8 are viable and fertile. *Tnfsf8* is expressed by activated CD4<sup>+</sup> and CD8<sup>+</sup> T cells, B cells, and macrophages, and has a role in Th17 cell differentiation. No gene product (mRNA or protein) is detected by RT PCR analysis of spleen cells (fresh and *in vitro* activated) isolated from homozygous animals. Homozygotes have decreased susceptibility to graft versus host disease, when compared to wildtype controls. Mutant mice are resistant to trinitrobenzene sulfonic acid (TNBS)-induced acute colitis, with reduced IFNG levels in the colonic lamina propria T cell. Homozygotes on the BALB/c background exhibit delayed bacterial clearance, impaired memory CD8<sup>+</sup> T cell production, reduced sensitivity to OVA induced allergic rhinitis, resistance to dextran sulfate sodium (DSS) induced colitis and susceptibility to oxazolone (OXA)-induced colitis.

**Development**

**Control Suggestions**
Genotyping Protocols
Separated MCA: Tnfsf8^{tm1Pod}
Separated PCR: Tnfsf8^{tm1Pod}
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 B6.129X1-Tnfsf8^{tm1Pod}/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #018588 in your Materials and Methods section.

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

Pricing & Availability

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

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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**Related Strains**

- All
- By Allele
- By Gene
- By Collection

All Related Strains
There are no related strains using this filter.