B6.129X1-Tnfsf8^mIpod/J

Stock No: 018588

Congenic, Targeted Mutation

Cryo Recovery

Place Order

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

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

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tr>
<td>Tnfsf8&lt;sup&gt;Im1Pod&lt;/sup&gt;</td>
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</tbody>
</table>

### Allele Type
- Targeted (Null/Knockout)

### Gene Symbol
- Tnfsf8

### Gene Name
- tumor necrosis factor (ligand) superfamily, member 8

## Research Applications

Immunology, Inflammation and Autoimmunity Research

## Base Price

Starting at:

$2,864.50 Domestic price Cryo Recovery

## View Price List

## Details

### Detailed Description

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

### Selected References
Genotyping Protocols
Separated MCA: Tnfsf8<sup>tm1Pod</sup>
Separated PCR: Tnfsf8<sup>tm1Pod</sup>
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<sup>tm1Pod</sup>/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #018588 in your Materials and Methods section.

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

Domestic    International
Pricing effective for USA, Canada and Mexico shipping destinations
Cryorecovery - Domestic Pricing

<table>
<thead>
<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous for Tnfsf8&lt;tm1Pod&gt;</td>
<td>$2,854.50</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.

Related Products and Services

| Frozen Mouse Embryo | $2,595.00 per straw or vial |

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General Terms and Conditions

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Related Strains

- All
- By Allele
- By Gene
- By Collection

All Related Strains