Overview

Also Known As: Tcrd-H2BEGFP

EGFP expression in these targeted reporter mice is seen in CD3ε+ TCRγδ+ intraepithelial lymphocytes in the small intestines, and TCRγδ cells in the spleen and lymph nodes. These mice may be useful for visualizing and studying the development of adult thymic γδ T cells and the biology of peripheral γδ T cells.

Donating Investigator

Bernard Malissen, Centre d'immunologie de Marseille Luminy
**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
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<tbody>
<tr>
<td><em>Trdc&lt;sup&gt;tm1Mal&lt;/sup&gt;</em></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Reporter)</td>
<td><em>Trdc</em></td>
<td>T cell receptor delta, constant region</td>
</tr>
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**RESEARCH APPLICATIONS**

**Research Tools**

**BASE PRICE**

Starting at:

$2,854.50 Domestic price Cryo Recovery

**Details**

**Detailed Description**

*Tcrd-H2BEGFP* mutant mice contain an internal ribosome entry site (IRES), and a human histone H2B fused to an enhanced green fluorescent protein (EGFP) downstream of the internal stop codon of the T-cell receptor delta, constant region (*Trdc*) gene. Homozygotes are viable, fertile, and normal in size. EGFP expression is evident in all CD3ε<sup>+</sup> TCRγδ<sup>+</sup> intraepithelial lymphocytes (IELs) in the small intestines, and TCRγδ cells in the spleen and lymph nodes. These mice may be useful for visualizing and studying the development of adult thymic γδ T cells and the biology of γδ T cells in the periphery.

The donating investigator reports that for visualizing γδ T cells in secondary lymphoid organs or other tissues containing a large excess of αβ T cells over γδ T cells, the use of F1 heterozygotes from Tcrd-H2BEGFP mice and B6.129S2-*Tcra<sup>tm1Mom</sup>* /J (Stock No. 002116) will genetically exclude highly fluorescent false-positive cells.

**Development**

**Expression Data**
Genotyping Protocols
Standard PCR: Trdc<sup>tm1Mal</sup>
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, homozygous mice may be bred together.
Additional Breeding and Husbandry Support

Citation
When using the Trdc<sup>tm1Mal</sup> mouse strain in a publication, please cite the originating article(s) and include JAX stock #016941 in your Materials and Methods section.

Animal Health Reports
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.
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

<table>
<thead>
<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
<td>C57BL/6-Trdc&lt;tm1Mal&gt;/J Frozen Embryo</td>
<td>$2,854.50</td>
</tr>
</tbody>
</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® 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.
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**Related Strains**

- All
- By Allele
- By Gene