B 6 ; 1 Tgfbr2/J

Stock No: 012603 | TβRII

Targeted Mutation

Overview

Also Known As: TβRII

These floxed mutant mice possess loxP sites flanking exon 4 of the transforming growth factor, beta receptor II (Tgfbr2) (commonly referred to as TβRII) targeted gene. This strain may be useful for studying the cellular and mechanical role of TGF-β in regulating development, hematopoiesis, wound healing, and immune function.

Donating Investigator

Stefan Karlsson, Lund University Hospital
**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>F7×F22</td>
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<td>(2019-05-17 00:00:00)</td>
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**Tgfbr2tm1Karl**

<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>Tgfbr2</td>
<td>transforming growth factor, beta receptor II</td>
</tr>
</tbody>
</table>

**RESEARCH APPLICATIONS**

- Immunology, Inflammation and Autoimmunity Research
- Hematological Research
- Research Tools
- Internal/Organ Research

**BASE PRICE**

Starting at:

$255.00 Domestic price for female 4-week

**Details**

These TβRII floxed mutant mice possess loxP sites flanking exon 4 of the targeted gene. Mice that are homozygous for this allele are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. When these mutant mice are bred to mice that express Cre recombinase, resulting offspring will have exon 4 deleted in cre-expressing tissues. This strain may be useful for studying the cellular and mechanical role of TGF-β in regulating development, hematopoiesis, wound healing, and immune function.

For example, when crossed to a strain expressing Cre recombinase in the neural tube, midbrain and dorsal spinal cord (see Stock No. **007807**), this mutant mouse strain may be useful in studies of DiGeorge syndrome.

For example, when crossed to a strain expressing interferon inducible Cre recombinase (see Stock No. **003556**), this mutant mouse strain may be useful in studies of autoimmune inflammation.

**Development**
**Genotyping Protocols**

Standard PCR: \(Tgfbr2^{tm1Karl}\)

Genotyping resources and troubleshooting

**Dietary Information**

LabDiet® 5K52 formulation (6% fat)

**Breeding Considerations**

When maintaining a live colony mice homozygous for the floxed allele may be bred together.

Additional Breeding and Husbandry Support

**Mating System**

Homozygote x Homozygote

**Citation**

When using the TβRII mouse strain in a publication, please cite the originating article(s) and include JAX stock #012603 in your Materials and Methods section.

**Animal Health Reports**

Facility Barrier Level Descriptions

AX10 (Standard)

**Pricing & Availability**

Live mice available in varying quantities. Ask Customer Service for details.
## Live Mouse

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>4 weeks</td>
<td>Female</td>
<td>Homozygous for Tgfbr2&lt;sup&gt;tm1Karl&lt;/sup&gt;</td>
<td>$255.00</td>
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<td>Male</td>
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<tr>
<td>6 weeks</td>
<td>Female</td>
<td>Homozygous for Tgfbr2&lt;sup&gt;tm1Karl&lt;/sup&gt;</td>
<td>$255.00</td>
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<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Tgfbr2&lt;sup&gt;tm1Karl&lt;/sup&gt;</td>
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<tr>
<td>7 weeks</td>
<td>Female</td>
<td>Homozygous for Tgfbr2&lt;sup&gt;tm1Karl&lt;/sup&gt;</td>
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<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Tgfbr2&lt;sup&gt;tm1Karl&lt;/sup&gt;</td>
<td>$255.00</td>
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<tr>
<td>8 weeks</td>
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<td>Homozygous for Tgfbr2&lt;sup&gt;tm1Karl&lt;/sup&gt;</td>
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<td></td>
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<tr>
<td>9 weeks</td>
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</tbody>
</table>

## Related Products and Services

| Frozen Mouse Embryo | B6;129-Tgfbr2<sup>tm1Karl</sup>/J Frozen Embryo | $2595.00 |

## 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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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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Phone: 207-288-6470
Email: TechTran@jax.org

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains