Overview

Also Known As: p53\(^{\text{LoxP}}\)

When these p53\(^{\text{flo}}\) mice are bred to mice with a Cre recombinase gene under the control of a promoter of interest, Trp53 expression is deleted in the tissue of interest.

Donating Investigator

Dr. Anton Berns, University of Amsterdam
Genetic Background

Generation

N8+N2F11
(2019-03-18 00:00:00)

<table>
<thead>
<tr>
<th>Trp53&lt;sup&gt;tm1Brn&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allele Type</td>
</tr>
<tr>
<td>Targeted (Conditional ready (e.g. floxed), No functional change)</td>
</tr>
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</table>

RESEARCH APPLICATIONS
Research Tools

BASE PRICE
Starting at:

$270.00 Domestic price for female 4-week

Detailed Description

Exons 2-10 are flanked by <i>loxP</i> sites in this conditional targeted mutant strain. Mice homozygous for the floxed allele do not show any increase in disease incidence for at least a year. When bred to mice with a cre recombinase gene under the control of a promoter of interest, expression is deleted in the tissue of interest.

For example, when crossed to a strain expressing Cre recombinase in the nervous system (see Stock No. 003771), this mutant mouse strain may be useful in studies of medulloblastoma formation.

When crossed to a strain expressing Cre recombinase in the central nervous system (see Stock No. 004600), this mutant mouse strain may be useful in studies of astrocytoma formation.

When crossed to a strain expressing Cre recombinase in virgin and lactating mammary glands (see Stock No. 003553), this mutant mouse strain may be useful in studies of mammary gland tumors.

When crossed to a strain expressing a doxycyclin-inducible Cre recombinase in the osteoblast lineage (see Stock No. 006361), this mutant mouse strain may be useful in studies of osteosarcomas.

When crossed to a strain expressing Cre recombinase in the epithelial cells of the developing kidney and genitourinary tract (see Stock No. 012237), this mutant mouse strain may be useful in studies of endometrial carcinoma.
Genotyping Protocols
Standard PCR: Trp53<sup>tm1Brn</sup>

Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Breeding Considerations
When maintained as a live colony, heterozygotes may be bred. Homozygotes have a somewhat reduced fertility, but may be bred. Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Citation
When using the Trp53<sup>tm1Brn</sup> mouse strain in a publication, please cite the originating article(s) and include JAX stock #008462 in your Materials and Methods section.

Animal Health Reports

Facility Barrier Level Descriptions

AX10 (Standard)
Available Now

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

**Domestic**

**International**

Pricing effective for USA, Canada and Mexico shipping destinations

<table>
<thead>
<tr>
<th>Live Mouse</th>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
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**Related Products and Services**

| Frozen Mouse Embryo | B6.129P2-Trp53<sup>tm1Brn</sup>/J | $2595.00 |

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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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Terms of Use

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