Overview

Also Known As: p53LSL.R172H 129svj

These mice carry a conditional point-mutant allele of the transformation related protein 53 gene (p53R172H; structural mutant homologous to human p53 codon 175). The conditional allele is functionally equivalent to a null mutation. Mice have all the phenotypic issues of p53 knockout mice and therefore have some decreased viability of homozygotes. Cre-mediated recombination leads to deletion of a transcriptional termination sequence (Lox-Stop-Lox) and expression of the oncogenic protein.

Donating Investigator

Dr. Tyler Jacks, Massachusetts Institute of Technology
GENETIC OVERVIEW

Genetic Background | Generation

**Trp53**<sub>tm2Tyj</sub>

<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><em>Trp53</em></td>
<td>transformation related protein 53</td>
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</tbody>
</table>

RESEARCH APPLICATIONS

Cancer Research
Apoptosis Research
Immunology, Inflammation and Autoimmunity Research
Research Tools

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

Details

Detailed Description

These mice carry a conditional point-mutant allele of the transformation related protein 53 gene (*p53R172H*; structural mutant homologous to human p53 codon 175). The conditional allele is functionally equivalent to a null mutation. Mice have all the phenotypic issues of p53 knockout mice and therefore have some decreased viability of homozygotes. Cre-mediated recombination leads to deletion of a transcriptional termination sequence (Lox-Stop-Lox) and expression of the oncogenic protein.

Development

Selected References

Genetics
**Trp53<sup>tm2Tyj</sup>**

**Disease/Phenotype**

**Disease Terms**

**Research Areas By Phenotype**

**Mammalian Phenotype Terms by Genotype**

**References**

**Technical Support**

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**Genotyping Protocols**
Standard PCR: Trp53 Alternate1
Probe: Trp53 Probe
Genotyping resources and troubleshooting

**Breeding Considerations**
When maintained as a live colony, heterozygotes may be bred. Homozygous mice develop tumors.

**Additional Breeding and Husbandry Support**

**Citation**
When using the 129S-Trp53<sup>tm2Tyj</sup>/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #008652 in your Materials and Methods section.

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

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**Pricing & Availability**

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

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### Cryorecovery - Domestic Pricing

<table>
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<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or wildtype for Trp53&lt;sup&gt;tm2Tyj&lt;/sup&gt;</td>
<td>$2,854.50</td>
</tr>
</tbody>
</table>

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**Frozen Mouse Embryo**

129S-Trp53<sup>tm2Tyj</sup>/J Frozen Embryo: $2,595.00
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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