B6.129S-Ptgs2<sup>tm1Jed</sup>/J

Stock No: 002476 | COX-2-

Targeted Mutation

PLACE ORDER

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

Overview

Also Known As: COX-2-

These Ptgs2 knock-out mice exhibit reduced viability with cardiac fibrosis and renal alterations characteristic of renal dysplasia. They are suitable for use in applications related to the study of mediators of inflammation.

Donating Investigator

Dr. Joe Dinchuk, The Dupont Merck Pharmaceutical Company
GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ptgs2&lt;sup&gt;tm1Jed&lt;/sup&gt;</strong></td>
<td></td>
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<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Ptgs2</td>
<td>prostaglandin-endoperoxide synthase 2</td>
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RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research  
Internal/Organ Research  
Developmental Biology Research

BASE PRICE

Starting at:

$2,595.00 Domestic price Cryo Recovery

Details

Detailed Description

Mice homozygous for the Ptgs2<sup>tm1Jed</sup> targeted mutation exhibit significant preweaning loss of homozygotes (original publication reports 30-40%). Homozygous mutant mice show polydipsia and polyuria due to a defect in renal development. Cardiac fibrosis is evident in approximately 50% of the mice. PTGS2 deficient mice do not show altered inflammatory responses to in several tests of paw and ear edema; however, cytotoxicity of hepatic cells induced by endotoxin was strikingly mitigated in these homozygotes. Female homozygotes are infertile with defects in ovulation, fertilization, implantation, and decidualization.

Development

Control Suggestions

Selected References
Genotyping Protocols
MELT: Ptgs2\textsuperscript{tm1Jed} - Alternate 3
Genotyping resources and troubleshooting

Breeding Considerations
Homozygous males are fertile, females are infertile. They have a reported life expectancy of about 1 year. Homozygous males can be bred to heterozygous females. To increase litter sizes and the number of litters produced, a heterozygote x heterozygote breeding scheme may be used.
Additional Breeding and Husbandry Support

Citation
When using this GRX A mouse strain in a publication, please cite the originating article(s) and include JAX stock #002476 in your Materials and Methods section.

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.

Domestic
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 or wildtype for Ptgs2&lt;tm1Jed&gt;</td>
<td>$2,595.00</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 |

### 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.

**Terms Of Use**

**Terms of Use**

**General Terms and Conditions**

**Questions About Terms of Use**

**Use of MICE by companies or for-profit entities requires a license prior to shipping.**

**Licensing Information**

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

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Related Strains

- All
- By Allele
- By Gene
- By Collection
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Shipments have begun at our new facility, allowing increased access to JAX mouse models.