B6.129P2-P2rx3<sup>im1Ckn</sup>/J

**Stock No:** 003951 | P2X<sup>-</sup>

- **Congenic, Targeted Mutation**

**CRYO RECOVERY**

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**PLACE ORDER**

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

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**Also Known As:** P2X<sup>-</sup>

These P2rx3 knock-out mice exhibit a marked urinary bladder hyporeflexia along with reduced pain-related behavior in response to injection of ATP and formalin.

**Donating Investigator**

Debra A Cockayne, Roche Bioscience

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**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>P2rx3&lt;sup&gt;im1Ckn&lt;/sup&gt;</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>P2rx3</td>
<td>purinergic receptor P2X, ligand-gated ion channel, 3</td>
</tr>
</tbody>
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**RESEARCH APPLICATIONS**

Sensorineural Research

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**BASE PRICE**

Starting at:

$2,595.00 Domestic price Cryo Recovery
Details

Detailed Description
Mice that are homozygous null for the P2rx3 gene are viable, fertile, normal in size and do not display any gross physical abnormalities. A significantly decreased nociceptive response (hindpaw lifting, licking, biting) is observed in response to injection of ATP, and to a lesser extent formalin. Responses to noxious thermal and mechanical stimuli are similar to that seen in wild-type mice. Aged mice may develop cutaneous hypersensitivity. Mice also exhibit urinary bladder hyporeflexia, characterized by decreased micturition (urination) frequencies and increased bladder capacities. Whole-cell patch-clamp analysis indicates that homozygote null mice lose the rapidly desensitizing ATP-induced currents in dorsal root ganglion. This strain is suitable for use in studies examining afferent sensory pathways.

Development

Control Suggestions

Selected References

Genetics

P2rx3<sup>Im1Ckn</sup>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols
Standard PCR: P2rx3<sup>Im1Ckn</sup>_alternate1
Genotyping resources and troubleshooting
Breeding Considerations
When maintaining a live colony, homozygous mice may be bred together. The coat color expected from breeding is Black.

Additional Breeding and Husbandry Support

Citation
When using the B6X - mouse strain in a publication, please cite the originating article(s) and include JAX stock #003951 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.

<table>
<thead>
<tr>
<th>Cryorecovery - Domestic Pricing</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or Wild-type for P2rx3&lt;tm1Ckn&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.

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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Related Strains

All

By Allele

By Gene

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All Related Strains