B6.129S4-Prkce<sup>tm1Msg</sup>/J

**Stock No:** 004189 | PKC KO

*Congenic, Targeted Mutation*

**REQUEST CRYORECOVERY**

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

**Also Known As: PKC KO**

These Prkce knock-out mice exhibit reduced anxiety, reduced alcohol consumption, and reduced responses to nociceptive stimuli.

**Donating Investigator**

Robert O. Messing, The University of Texas at Austin

**Genetic Background**

<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>Prkce</td>
<td>protein kinase C, epsilon</td>
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</tbody>
</table>

**VIEW GENETICS**

**Cancer Research**

Cell Biology Research

Sensorineural Research

**VIEW ALL RESEARCH APPLICATIONS**

**Starting at:**

$2,595.00 (Domestic price: Cryo Recovery)
Details

Detailed Description
Mice that are homozygous for the Prkce\textsuperscript{tm1Msg} targeted mutation are viable, normal in size and do not display any gross physical or behavioral abnormalities. Homozygous females produce small litters (0-2 pups). Protein kinase C, epsilon protein was not immunodetectable in dorsal root ganglia or in the central nervous system of mutant mice. Homozygous mutant mice exhibit reduced anxiety, reduced alcohol consumption and reduced responses to nociceptive stimuli. The mice are also supersensitive to acute behavioral effects of allosteric Gamma aminobutyrate (GABA) type A receptor activating drugs. This strain represents a model that may be useful in studies of pharmacological agents for the treatment of alcoholism, anxiety and pain.

Development

Control Suggestions

Selected References

Genetics

Prkce\textsuperscript{tm1Msg}

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols
Separated MCA: Prkce\textsuperscript{tm1Msg} - Alternate 1
High Resolution Melting: Prkce\textsuperscript{tm1Msg}
Genotyping resources and troubleshooting
Breeding Considerations
This strain originated on a C57BL/6J X 129S4 background, and has been backcrossed for 10 generations on a C57BL/6J background. Coat color expected from breeding: Black

Additional Breeding and Husbandry Support

Citation

When publishing in the P.F.C. strain in a publication, please cite the originating article(s) and include JAX stock #004189 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 | International

Pricing effective for USA, Canada and Mexico shipping destinations

Cryorecovery - Domestic Pricing

<table>
<thead>
<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or Wild-type for Prkce&lt;tm1Msg&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

<table>
<thead>
<tr>
<th>Product</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
<td>$2,595.00 per straw or vial</td>
</tr>
</tbody>
</table>

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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General Terms and Conditions

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

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All

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By Gene

By Collection

All Related Strains

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