C.129S7(B6)-Pgr^{lm1Bwo}/OmcJ

Stock No: 030883 | PRKO

Congenic, Targeted Mutation

CRKO RECOVERY

PLACE ORDER

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

Also Known As: PRKO

These PRKO mice do not express either A or B isoforms of the progesterone receptor. Homozygous females, while viable, are infertile. This mutant mouse strain may be useful in studies of ovulation, pregnancy, alveolar development in the breast, sexual behavior, and mammary gland tumorigenesis.

Donating Investigator

Orla M. Conneely, Baylor College of Medicine

READ MORE +

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pgr^{lm1Bwo}</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>Pgr</td>
<td>progesterone receptor</td>
</tr>
</tbody>
</table>

VIEW GENETICS

RESEARCH APPLICATIONS

Reproductive Biology Research
Internal/Organ Research
Endocrine Deficiency Research
Research Tools
Cancer Research
Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS
Details

Detailed Description

The progesterone receptor, encoded by the Pgr gene, is a nuclear steroid receptor, ligand activated transcription factor which regulates gene expression following progesterone hormone binding. The progesterone receptor gene has two distinct promoters and translation start sites in the first exon which produce two isoforms, A and B. These PRKO mice do not express either A or B isoforms of the progesterone receptor.

Homozygous males are viable and fertile. Homozygous females are viable but infertile, exhibiting severely reduced or absence of ovulation, uterine hyperplasia and inflammation, severely limited mammary gland development, and an inability to exhibit sexual behavior. Competitive progesterone-binding assay does not detect uterine cytosolic progesterone receptor activity in homozygous females. No gene product (mRNA) is detected by northern blot analysis of homozygotes.

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. This is the case for the strain above. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.

Of note, the PRAKO strain expressing only the B isoform of the progesterone receptor is available: (Stock No. 022464); and the PRBKO strain expressing only the A isoform of the progesterone receptor is available: (Stock No. 022465).

Development

Control Suggestions

Selected References

Genetics

Pgr<sup>IntBws</sup>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype
Genotyping Protocols
MELT: Pgr<sup>tm1Bwo</sup>
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, these mice can be bred as heterozygotes. While homozygotes are viable and homozygous males are fertile, homozygous females are infertile.
Additional Breeding and Husbandry Support

Mating System
Heterozygote x Heterozygote

Citation
When using the PRK6 mouse strain in a publication, please cite the originating article(s) and include JAX stock #030883 in your Materials and Methods section.

Animal Health Reports
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>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous for Pgr&lt;sup&gt;tm1Bwo&lt;/sup&gt;</td>
<td>$2,854.50</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.

<table>
<thead>
<tr>
<th>Related Products and Services</th>
<th></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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Related Strains

- All
- By Allele
- By Gene
- By Collection

All Related Strains
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**TOMORROW’S CURES**

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