B6.129X1(Cg)-Arrb2^{tm1Rj}/J

Stock No: 023852

Congenic, Targeted Mutation

AVAILABLE

PLACE ORDER

Live mice available in varying quantities. Call Customer Service for details.

Overview

Homozygous Arrb2 (arrestin, beta 2) targeted mutation mice show a significantly increased potentiation and prolongation of the analgesic effect of morphine, suggesting that opioid receptor desensitization is impaired. These mice may be useful in studies of pain and analgesia.

Donating Investigator

Robert Lefkowitz, Duke University Medical Center
GENETIC OVERVIEW

Genetic Background: Generation
N5F12
(2018-08-23 00:00:00)

**Arrb2**

<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>Arrb2</td>
<td>arrestin, beta 2</td>
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</tbody>
</table>

VIEW GENETICS

RESEARCH APPLICATIONS

Sensorineural Research
Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

$271.00 Domestic price for female

VIEW PRICE LIST

Details

Detailed Description

Homozygous **Arrb2** (arrestin, beta 2) targeted mutation mice show a significantly increased potentiation and prolongation of the analgesic effect of morphine, suggesting that opioid receptor desensitization is impaired. They lack expression of the gene as determined by immunoblot of brainstem, periaqueductal gray tissue, spleen, lung, and skin. These mice may be useful in studies of pain and analgesia.

Development

Control Suggestions

Selected References

Genetics
**Genotyping Protocols**
Standard PCR: \( \text{Arbb}^{\text{tm1Rji}} \), alternate1
Genotyping resources and troubleshooting

**Breeding Considerations**
When maintained as a live colony, homozygotes or heterozygotes may be bred.

**Mating System**
Homozygote x Homozygote

**Citation**
When using the JAX stock, please cite the originating article(s) and include JAX stock #023852 in your Materials and Methods section.

**Animal Health Reports**
AX10 (Standard)

**Pricing & Availability**
Live mice available in varying quantities. Call Customer Service for details.
Related Products and Services

Frozen Mouse Embryo $2,595.00 per straw or vial

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All

By Allele

By Gene

By Collection

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TOMORROW'S CURES