

## B6.129X1(Cg)-*Arrb2*<sup>tm1Rjl</sup>/J

Stock No: 023852

 Congenic, Targeted Mutation

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

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the analgesic effect of morphine, suggesting that  $\mu$  opioid receptor desensitization is impaired. These mice may be useful in studies of pain and analgesia.

### Donating Investigator

Robert Lefkowitz, Duke University Medical Center

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## GENETIC OVERVIEW

Genetic Background

Generation

*Arrb2*<sup>tm1Rjl</sup>

**Allele Type**

Targeted (Null/Knockout)

**Gene Symbol**

*Arrb2*

**Gene Name**

arrestin, beta 2

VIEW GENETICS

## RESEARCH APPLICATIONS

Sensorineural Research

Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

## BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W P R I C E L I S T

### 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  $\mu$  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

#### *Arrb2*<sup>tm1Rjl</sup>

### Disease/Phenotype

#### Disease Terms

#### Research Areas By Phenotype

#### Mammalian Phenotype Terms by Genotype

#### References

## Technical Support

### CONTACT TECHNICAL SUPPORT

#### Genotyping Protocols

Standard PCR: [Arrb2alternate1](#)

[Genotyping resources and troubleshooting](#)

#### Breeding Considerations

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

[Additional Breeding and Husbandry Support](#)

#### Mating System

Homozygote x Homozygote

#### Citation

When using the B6.129X1(Cg)-*Arrb2*<sup>tm1Rjl</sup>/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #023852 in your Materials and Methods section.

#### Animal Health Reports

[Facility Barrier Level Descriptions](#)

*Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, [G200](#)*

## Pricing & Availability



Cryo  
Recovery

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

SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Heterozygous or wildtype for <i>Arrb2</i> <tm1Rjl>	\$2,854.50

#### RELATED PRODUCTS AND SERVICES

## 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. We do not guarantee [breeding performance](#) and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

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#### LICENSING INFORMATION

Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)

### Related Strains

All

By Allele

By Gene

By Collection



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