

**B6;129-Arl6<sup>tm2Vcs</sup>/J**

Stock No: **018443**

 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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hypertension.

Donating Investigator

Val Sheffield, University of Iowa, HHMI

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## GENETIC OVERVIEW

Genetic Background

Generation

*Arl6<sup>tm2Vcs</sup>*

**Alele Type**

**Gene Symbol**

**Gene Name**

Targeted (Null/Knockout)

*Arl6*

ADP-ribosylation factor-like 6

VIEW GENETICS

## RESEARCH APPLICATIONS

Neurobiology Research

Cardiovascular Research

Developmental Biology Research

Sensorineural Research

Reproductive Biology 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

ADP-ribosylation factor-like 6 (*Arl6*) or *Bbs3* is a small GTPase and one of 16 genes associated with Bardet-Biedl syndrome (BBS). BBS3 interacts with the 7 BBS proteins that form the BBSome complex, and is required for ciliary localization of the BBSome. Mice homozygous for this knockout mutation exhibit several characteristics of BBS including retinal degeneration, male infertility (caused by absence of sperm flagella), severe hydrocephalus, misshapen ependymal cell cilia, altered cilia beat mechanics, increased body fat (but not obesity), increased arterial pressure (hypertension) and increased heart rate. Both the C57BL/6J genetic background (see Stock No. [021215](#)) and the C3H genetic background (see Stock No. [021217](#)) strains show reduced viability of homozygotes, but otherwise there are no known phenotypic differences between the C57BL/6, C3H, mixed C57BL/6-129 (Stock No. [018443](#)), and 129 (see Stock No. [021216](#)) genetic backgrounds. This mutant mouse strain may be useful in studies of Bardet-Biedl syndrome.

#### Development

#### Control Suggestions

#### Selected References

### Genetics

#### *Arl6*<sup>tm2Vcs</sup>

### Disease/Phenotype

#### Disease Terms

[+ Research Areas By Phenotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

## [- Technical Support](#)

### C O N T A C T   T E C H N I C A L   S U P P O R T

#### Genotyping Protocols

Standard PCR:[Arl6-Alternate2](#)

[Genotyping resources and troubleshooting](#)

#### Breeding Considerations

While maintaining a live colony, these mice are bred as heterozygotes. Males homozygous for mutation are infertile.

[Additional Breeding and Husbandry Support](#)

#### Citation

When using the B6;129-*Arl6*<sup>tm2Vcs</sup>/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #018443 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

## RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

B6;129-Arl6&lt;tm2Vcs&gt;/J Frozen Embryo

\$2595.00

## 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.

[Terms Of Use](#)

## TERMS OF USE

[General Terms and Conditions](#)

QUESTIONS ABOUT TERMS OF USE

## ADDITIONAL USE RESTRICTIONS APPLY

[Use of MICE by companies or for-profit entities requires a license prior to shipping.](#)

## LICENSING INFORMATION

Phone: 207-288-6470

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

All

By Allele

By Gene

By Collection



## DO YOU NEED BALB/c MICE?

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