

**B6.129-Reg3g<sup>tm1.1Lvh</sup> /J**

Stock No: **017480** | Reg3g knock-out

 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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homeostasis.

### Donating Investigator

Lora V. Hooper, UT Southwestern Medical Center, HHMI

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## GENETIC OVERVIEW

Genetic Background

Generation

*Reg3g<sup>tm1.1Lvh</sup>*

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

*Reg3g*

regenerating islet-derived 3 gamma

VIEW GENETICS

## RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research

Internal/Organ 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

*Reg3g* (regenerating islet-derived 3 gamma) is a bactericidal C-type lectin that specifically targets Gram-positive bacteria. Its expression is controlled by *Myd88* in specialized epithelial cells of the small intestine.

These mice carry a targeted deletion of all six exons of the *Reg3g* gene. Homozygotes are born at predicted Mendelian ratios, appear healthy, and show no signs of enteropathy by histology. Mice deficient in this protein exhibit increased bacterial adherence to the small intestinal epithelial surface, increased fecal immunoglobulin A (IgA), and increased numbers of intestinal T helper 1 (T<sub>H</sub>1) cells. This strain has been useful in studies of bacterial colonization of the small intestine and host intestinal-microbial homeostasis.

#### Development

#### Control Suggestions

#### Selected References

### Genetics

#### *Reg3g*<sup>tm1.1Lvh</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

Separated MCA:[Reg3galternate1 MCA](#)

Separated PCR:[Reg3galternate1](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

Heterozygotes or homozygotes may be bred.

[Additional Breeding and Husbandry Support](#)

### Citation

When using the Reg3g knock-out mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #017480 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 for <a href="#">Reg3g&lt;tm1.1Lvh&gt;</a>	\$2,854.50

## RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

B6.129-Reg3g<tm1.1Lvh>/J

\$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](#)

Q U E S T I O N S   A B O U T   T E R M S   O F   U S E

## 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



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