

C.129S4-C3ar1^{tm1Cge}/J

Stock No: **005712** | C3aR KO

 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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may be suitable for use in studies related to asthma, allergic skin disease, and innate-immunity studies.

Donating Investigator

Craig Gerard, Childrens' Hospital Boston, Harvard MS

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GENETIC OVERVIEW

Genetic Background

Generation

C3ar1^{tm1Cge}

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

C3ar1

complement component 3a receptor 1

VIEW GENETICS

RESEARCH APPLICATIONS

Hematological Research

Immunology, Inflammation and Autoimmunity Research

Research Tools

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

Mice homozygous for the targeted mutation are viable, fertile, normal in size, and do not display any behavioral abnormalities when maintained under barrier conditions. No transcripts from the targeted gene are detected in bone marrow. Homozygous mice have normal T and B cell development but elevated IgG1 and decreased IgG2a, IgG3, and IgA in serum. In standard models of airway hyperresponsiveness (intraperitoneal (i.p.) sensitization followed by aerosol challenge), mutant mice are protected from allergic airway disease. Following epicutaneous, but not i.p., sensitization, homozygotes have significantly greater serum IgG1, dermal eosinophilia, and splenocyte Th2 cytokine secretion. Antigen presenting cells from null mice induce stronger Th2 responses. This mutant may be suitable for use in studies related to asthma, allergic skin disease, T helper cell polarization/B cell isotype switching, and other Th2- and innate-immunity studies.

Development

Control Suggestions

Selected References

Genetics

C3ar1^{tm1Cge}

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:[C3ar1](#)

Standard PCR:[C3ar1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Upon arrival, mutant mice were bred together to create homozygotes. To maintain the live colony, homozygous mice are bred together.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the C3aR KO mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #005712 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
Cryo Recovery	Heterozygous for C3ar1<tm1Cge>	\$2,854.50

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

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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

Related Strains

All

By Allele

By Gene

By Collection



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