

C.B6(Cg)-Rag2^{tm1.1Cgn}/J
Stock No: **008448** | RAG-2^{del}

◆ 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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2 locus (*Rag2*). These RAG-2^{del} mice may be useful in studying the role of RAG-2 in hematopoietic and immune system defects (including arrested B cell and T cell development at the pro-B and the pro-T cell stages, respectively), cancer and toxicology research as a xenograft/transplant host, T and B cell receptor (V(D)J) recombination, hematopoiesis, hematology, immunology, and inflammation research.

Donating Investigator

IMR Colony, The Jackson Laboratory

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GENETIC OVERVIEW

Genetic Background

Generation

Rag2^{tm1.1Cgn}

Alele Type

Targeted (Null/Knockout)

Gene Symbol

Rag2

Gene Name

recombination activating gene 2

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research

Research Tools

Developmental Biology Research

Hematological Research

Virology Research

Internal/Organ Research

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

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Details

Detailed Description

These RAG-2^{del} mutant mice harbor a pan deletion of exon 3 of the targeted locus. Homozygotes (RAG-2^{del/del}) are viable and fertile, with pan deletion of the entire RAG-2 protein coding region. Homozygous mice may be expected to have the same knockout phenotype as other RAG-2 null mutants or similarly created RAG-2 exon 3 pan-deleted mutants; with hematopoietic and immune system defects including arrested B cell and T cell development at the pro-B and the pro-T cell stages, respectively. These RAG-2^{del} mice may be useful in studying the role of RAG-2 in B cell and T cell development (including cancer and toxicology research as a xenograft/transplant host), T and B cell receptor (V(D)J) recombination, hematopoiesis, hematology, immunology, and inflammation research.

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.

Development

Control Suggestions

Selected References

Genetics

Rag2^{tm1.1Cgn}

– 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:[Rag2 Alternate 1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Mutant mice were bred to BALB/cByJ (Stock No. [001026](#)) using a marker-assisted approach, then bred to a *cre*-deleter strain (on a BALB/c genetic background; Stock No. [003465](#)), and then selectively bred to BALB/cByJ for at least one more generation to establish this RAG-2^{del} strain. When maintaining the live RAG-2^{del} colony, homozygous RAG-2^{del} mice may be bred together.

[Additional Breeding and Husbandry Support](#)

Citation

When using the RAG-2^{del} mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #008448 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



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Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous for Rag2<tm1.1Cgn>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	C.B6(Cg)-Rag2<tm1.1Cgn>/J	\$2595.00
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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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ADDITIONAL USE RESTRICTIONS APPLY

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

LICENSING INFORMATION

☰ Related Strains

- All
- By Allele
- By Gene
- By Collection




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