

B6.129(Cg)-Rab7^{tm1.1Aie}/J

Stock No: 021589

 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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Donating Investigator

Aimee Edinger, University of California, Irvine

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GENETIC OVERVIEW

Genetic Background

Generation

Rab7^{tm1.1Aie}

Alele Type	Gene Symbol	Gene Name
Targeted (Conditional ready (e.g. floxed), No functional change)	<i>Rab7</i>	RAB7, member RAS oncogene family

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

Cell Biology 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

These *Rab7^{fllox}* mutant mice possess *loxP* sites flanking exon 1 of the RAB7, member RAS oncogene family (*Rab7*) gene. RAB7 is a small GTPase that promotes fusion reactions between late endosomes and lysosomes facilitating the lysosomal degradation of plasma membrane proteins, autophagosomes, and endocytic vesicle cargo. Mice that are homozygous for this allele are viable and fertile. When these mutant mice are bred to mice that express Cre recombinase, resulting offspring will have exon 1 deleted in *cre*-expressing tissues.

For example, when crossed to a strain expressing Cre recombinase in CD4 T cells (see Stock No. [017336](#)), this mutant mouse strain may be useful for studying the effect of autophagosomes degradation on T cell survival.

Development

Control Suggestions

Selected References

Genetics

Rab7^{tm1.1Ale}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

+ Mammalian Phenotype Terms by Genotype

+ References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR:[Rab7](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony mice homozygous for the floxed allele may be bred together.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6.129(Cg)-*Rab7*^{tm1.1A/e}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #021589 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 Rab7<tm1.1A/e>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

B6.129(Cg)-Rab7^{tm1.1Ale>/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.

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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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