

STOCK *Rxra*^{tm1Rev}/HsvJ
Stock No: **024089** | RXRalpha-
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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processes.

Donating Investigator

Henry Sucov, Medical University of South Carolina

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GENETIC OVERVIEW

Genetic Background

Generation

Rxra^{tm1Rev}

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Rxra

retinoid X receptor alpha

VIEW GENETICS

RESEARCH APPLICATIONS

Developmental Biology Research

Cardiovascular Research

Research Tools

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

The *Rxra*, retinoid X receptor alpha, gene encodes for a nuclear receptor of retinoic acid. The retinoid X receptors regulate gene expression via both ligand-dependent and ligand-independent mechanisms. These mice carry a targeted mutation for the *Rxra* gene in which a NEO cassette replaced part of exon 3 and intron 3. Mice that are heterozygous for the targeted mutation are viable and fertile. Homozygous null mice have an embryonic lethal phenotype, failing to develop past embryonic day 15.5 due to congestive heart failure. Abberant non-functional gene product (mRNA) is detected by Northern analysis of homozygous embryos, embryonic day 13.5. Homozygous embryos exhibit impaired placental, eye, cardiac and hepatic (transient delay in fetal erythropoiesis) development as well as subdermal edema. Heterozygotes exhibit cardiac and myocardial defects.

Development

Control Suggestions

Selected References

Genetics

Rxra^{tm1Rev}

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: [Rxra-alternate 1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, heterozygous mice may be bred together, to wildtype siblings, or to C57BL/6J inbred mice (Stock No. [000664](#)). Homozygotes are not viable.

[Additional Breeding and Husbandry Support](#)

Citation

When using the RXRalpha- mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #024089 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

Domestic Pricing for



Commercial & For-Profit



Not-For-Profit & Academic

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or Wildtype for Rxa<tm1Rev>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	STOCK Rxa<tm1Rev>/HsvJ Frozen Embryo	\$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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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 no-fee JAX Leap 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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