

B6(Cg)-Rorc^{tm3Litt} /J
 Stock No: **008771** | Roryt[®]

 Targeted Mutation

Live mice available in varying quantities. Ask Customer Service for details.

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eliminating tissue-specific expression of orphan nuclear receptor ROR γ , which results in abnormality of lymphoid organ development, survival of CD4⁺ CD8⁺ double positive thymocytes, and differentiation of Th17 helper T cells.

Donating Investigator

Dr. Dan R. Littman, New York University Medical Center

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

F?⁺N1F15
 (2021-04-02 00:00:00)

Rorc^{tm3Litt}

Alele Type

Targeted (Conditional ready (e.g. floxed), No functional change)

Gene Symbol

Rorc

Gene Name

RAR-related orphan receptor gamma

Marker(s)

Marker Symbol

Rorc

Marker Name

RAR-related orphan receptor gamma

VIEW GENETICS

RESEARCH APPLICATIONS

V I E W A L L R E S E A R C H A P P L I C A T I O N S

BASE PRICE

Starting at:

\$278.00 Domestic price for female 4-week

V I E W P R I C E L I S T

Details

Detailed Description

These mice possess *loxP* sites on either side of the exon 3-6 region of the targeted gene. Mice that are homozygous for this floxed allele are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. When crossed with a Cre recombinase-expressing strain, this strain is useful in eliminating tissue-specific expression of orphan nuclear receptor RORgamma, including the RORgammaT thymus-specific isoform. Germline deletion of RORgamma and RORgammaT induces an abnormality in lymphoid organ development, survival of CD4⁺ CD8⁺ double positive thymocytes, and differentiation of Th17 helper T cells.

Development

Control Suggestions

Selected References

Genetics

Rorc^{tm3Litt}

Rorc

– 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:[Rorc](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Mating System

Homozygote x Homozygote

Citation

When using the Roryt^{fl} mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #008771 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX10 \(Standard\)](#)

– Pricing & Availability



Live mice available in varying quantities. Ask Customer Service for details.

Available

Domestic **International**

Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE

| AGE | SEX | GENOTYPE | PRICE |
|----------|--------|--|----------|
| 4 weeks | Female | Homozygous for Rorc ^{tm3Litt} | \$278.00 |
| | Male | Homozygous for Rorc ^{tm3Litt} | \$278.00 |
| 5 weeks | Female | Homozygous for Rorc ^{tm3Litt} | \$278.00 |
| | Male | Homozygous for Rorc ^{tm3Litt} | \$278.00 |
| 6 weeks | Female | Homozygous for Rorc ^{tm3Litt} | \$278.00 |
| | Male | Homozygous for Rorc ^{tm3Litt} | \$278.00 |
| 7 weeks | Female | Homozygous for Rorc ^{tm3Litt} | \$278.00 |
| | Male | Homozygous for Rorc ^{tm3Litt} | \$278.00 |
| 8 weeks | Female | Homozygous for Rorc ^{tm3Litt} | \$278.00 |
| | Male | Homozygous for Rorc ^{tm3Litt} | \$278.00 |
| 9 weeks | Female | Homozygous for Rorc ^{tm3Litt} | \$278.00 |
| | Male | Homozygous for Rorc ^{tm3Litt} | \$278.00 |
| 10 weeks | Female | Homozygous for Rorc ^{tm3Litt} | \$278.00 |
| | Male | Homozygous for Rorc ^{tm3Litt} | \$278.00 |
| 11 weeks | Female | Homozygous for Rorc ^{tm3Litt} | \$278.00 |
| | Male | Homozygous for Rorc ^{tm3Litt} | \$278.00 |
| 12 weeks | Female | Homozygous for Rorc ^{tm3Litt} | \$278.00 |
| | Male | Homozygous for Rorc ^{tm3Litt} | \$278.00 |

RELATED PRODUCTS AND SERVICES

| | | |
|---------------------|---|-----------|
| Frozen Mouse Embryo | B6(Cg)-Rorc ^{tm3Litt} /J Frozen Embryo | \$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.

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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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TOMORROW'S CURES



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