

B6.129S1(SJL)-Rcor1^{tm2.1Gman}/J

Stock No: **025877**

 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

Gail Mandel, Oregon Health and Science University

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GENETIC OVERVIEW

Genetic Background

Generation

Rcor1^{tm2.1Gman}

Alele Type

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

Gene Symbol

Rcor1

Gene Name

REST corepressor 1

VIEW GENETICS

RESEARCH APPLICATIONS

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

The corepressor *Rcor1* (REST corepressor 1) is essential for murine erythropoiesis. It represses expression of hematopoietic stem cells and myeloid genes.

Exon 4 of the mouse *Rcor1* gene are flanked by loxP sites in this conditional mutant strain. Cre-mediated excision of the floxed region results in a null allele, as determined by Western blot.

Homozygous knockout mice generated through crosses with *Meox2-Cre* mice (see Stock No. [003755](#)) show a block in fetal erythropoiesis at the proerythroblast stage. Animals die around embryonic day 16.5 due to severe anemia and fetal liver erythropoietic defects. *Rcor1* null erythroid progenitors cultured in vitro form myeloid colonies instead of erythroid colonies.

Floxed mice can be bred with *Mx1-Cre* mice (see Stock No. [003556](#)) to generate embryos in which the expression of Cre is inducible by IFN- α .

Development

Control Suggestions

Selected References

Genetics

Rcor1^{tm2.1Gman}

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:[Rcor1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Heterozygotes and homozygotes are viable and fertile.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6.129S1(SJL)-*Rcor1*^{tm2.1Gman}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #025877 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 Rcor1<tm2.1Gman>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.129S1(SJL)-Rcor1<tm2.1Gman>/J Frozen Embryo	\$2595.00
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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

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

[Related Strains](#)

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By Allele

By Gene

By Collection



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