

C57BL/6-Cxcr2^{tm1Rmra}/J
Stock No: **024638** | Cxcr2^{fl/fl}

◆ Coisogenic, 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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Cxcr2^{fl/fl} floxed mice may be useful for studying the neutrophil granulocyte lineage and the migration of neutrophils during infection.

Donating Investigator

Richard M Ransohoff, Cleveland Clinic

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GENETIC OVERVIEW

Genetic Background Generation

Cxcr2^{tm1Rmra}

Alele Type	Gene Symbol	Gene Name
Targeted (Conditional ready (e.g. floxed), No functional change)	<i>Cxcr2</i>	chemokine (C-X-C motif) receptor 2

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools
Hematological Research
Immunology, Inflammation and Autoimmunity Research
Neurobiology 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

Cxcr2^{fl/fl} floxed mutant mice possess *loxP* sites flanking exon 2 of the chemokine (C-X-C motif) receptor 2 (*Cxcr2*) gene. *Cxcr2* encodes a G-protein-coupled receptor which mediates neutrophil migration to sites of inflammation. CXCR2 also plays roles in development, tumorigenesis, and demyelination. Homozygotes are viable and fertile. These mice express CXCR2 on the surface of neutrophils in peripheral blood, bone marrow and spleen. When bred to mice that express tissue-specific Cre recombinase, resulting offspring will have exon 2 deleted in the *cre*-expressing tissues.

For example, when these mice are bred to B6.Cg-Tg(Mx1-cre)1Cgn/J mice (Stock No. [003556](#)), poly(I:C)-induced cre activation results in impaired neutrophil migration in sterile peritonitis.

Development

Control Suggestions

Selected References

Genetics

Cxcr2^{tm1Rmra}

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:[Cxcr2](#)

Standard PCR:[Cxcr2](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the $Cxcr2^{fl}$ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #024638 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.

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous for Cxcr2<tm1Rmra>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	C57BL/6-Cxcr2<tm1Rmra>/J Frozen Embryo	\$2595.00
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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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[General Terms and Conditions](#)

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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

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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