

B6.129(Cg)-*Ccr2*^{tm2.1fc}/J
Stock No: **017586** | *Ccr2*^{RFP}

◆ Congenic, Targeted Mutation

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

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monocyte recruitment to sites of inflammation.

Donating Investigator

Israel F. Charo, Gladstone Inst of Cardiovascular Disease, UCSF

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GENETIC OVERVIEW

Genetic Background

Generation

[N9pN1+N1F9](#)
(2019-12-10 00:00:00)

Ccr2^{tm2.1fc}

Allele Type

Targeted (Reporter,
Null/Knockout)

Gene Symbol

Ccr2

Gene Name

chemokine (C-C motif) receptor 2

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Internal/Organ Research

Immunology, Inflammation and Autoimmunity Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$236.78 Domestic price for female 4-week

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

- Details

- Detailed Description

In this strain, a monomeric red fluorescent protein (RFP) sequence replaces the coding sequence of the chemokine (C-C motif) receptor 2 (*Ccr2*) gene, abolishing gene function. CCR2 is a chemokine receptor expressed on monocytes which directs their recruitment to sites of inflammation found in diseases such as multiple sclerosis, atherosclerosis, rheumatoid arthritis, and experimental autoimmune encephalitis (EAE), following activation by monocyte chemoattractant proteins (MCPs). CCR2 is essential to innate and adaptive immune responses during injury repair. Homozygous mice are viable, fertile, normal in size, and do not display any gross physical or behavioral abnormalities. In these mice RFP expression is seen in circulating monocytes, T cells, and natural killer cells. They exhibit a reduction in monocyte recruitment during thioglycolate-induced peritonitis and EAE. These mice may be useful for studying the role of CCR2 during monocyte recruitment to sites of inflammation.

+ Development

+ Expression Data

+ Control Suggestions

+ Selected References

- Genetics

+ *Ccr2*^{tm2.1lf}

- 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:[Ccr2](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

LabDiet® 5K52 formulation (6% fat)

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 $Ccr2^{RFP}$ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #017586 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX12 \(Maximum\)](#)

[- Pricing & Availability](#)



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Available

Domestic | **International**

Pricing effective for USA, Canada and Mexico shipping destinations

Live Mouse

AGE

SEX

GENOTYPE

PRICE

4 weeks	SEX	Homozygous for Ccr2 ^{tm2.1lf}	\$236.78
	Male	Homozygous for Ccr2 ^{tm2.1lf}	\$236.78
5 weeks	Female	Homozygous for Ccr2 ^{tm2.1lf}	\$236.78
	Male	Homozygous for Ccr2 ^{tm2.1lf}	\$236.78
6 weeks	Female	Homozygous for Ccr2 ^{tm2.1lf}	\$236.78
	Male	Homozygous for Ccr2 ^{tm2.1lf}	\$236.78
7 weeks	Female	Homozygous for Ccr2 ^{tm2.1lf}	\$236.78
	Male	Homozygous for Ccr2 ^{tm2.1lf}	\$236.78
8 weeks	Female	Homozygous for Ccr2 ^{tm2.1lf}	\$236.78
	Male	Homozygous for Ccr2 ^{tm2.1lf}	\$236.78
9 weeks	Female	Homozygous for Ccr2 ^{tm2.1lf}	\$236.78
	Male	Homozygous for Ccr2 ^{tm2.1lf}	\$236.78
10 weeks	Female	Homozygous for Ccr2 ^{tm2.1lf}	\$236.78
	Male	Homozygous for Ccr2 ^{tm2.1lf}	\$236.78
11 weeks	Female	Homozygous for Ccr2 ^{tm2.1lf}	\$236.78
	Male	Homozygous for Ccr2 ^{tm2.1lf}	\$236.78
12 weeks	Female	Homozygous for Ccr2 ^{tm2.1lf}	\$236.78
	Male	Homozygous for Ccr2 ^{tm2.1lf}	\$236.78

Related Products and Services

Frozen Mouse Embryo	B6.129(Cg)-Ccr2<tm2.1lf>/J	\$2595.00
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Phone: 207-288-6470

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All Related Strains



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Yes No