



# B6.129P2<sup>Cg</sup>Cr1<sup>tm1Litt</sup>/J

Stock No: 005582 | CX3CR1-GFP

Congenic, Targeted Mutation



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

## Overview

### Also Known As: CX3CR1-GFP

CX3CR1-GFP mice express EGFP in monocytes, dendritic cells, NK cells, and brain microglia under control of the endogenous *Cx3cr1* locus. They may be useful in studies of leukocyte migration and trafficking, as well as for transplantation studies.

### Donating Investigator

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

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## GENETIC OVERVIEW

Genetic Background      Generation  
N13F5  
(2019-06-13 00:00:00)

*Cx3cr1<sup>tm1Litt</sup>*

Allele Type	Gene Symbol	Gene Name
Targeted (Reporter, Null/Knockout)	<i>Cx3cr1</i>	chemokine (C-X3-C motif) receptor 1

VIEW GENETICS

## RESEARCH APPLICATIONS

Research Tools  
Cancer Research  
Immunology, Inflammation and Autoimmunity Research  
Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

## BASE PRICE

Starting at:

\$0.00 Domestic price for male 4-week

VIEW PRICE LIST

### Details

#### Detailed Description

Mice that are homozygous for the CX3CR1-GFP targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. RT-PCR analysis of lymphoid tissue from homozygotes detects mutant gene product (mRNA) and no wild type gene product (mRNA). Flow cytometric analysis of peripheral blood cells identified a subset of green fluorescent cells not observed in wildtype mice. Enhanced Green Fluorescent Protein (EGFP), but not the endogenous gene, is expressed in monocytes, dendritic cells, NK cells, and brain microglia - mimicking endogenous gene expression. The same subset of peripheral blood cells isolated from heterozygote mice express detectable levels of EGFP. These CX3CR1-GFP mutant mice may be useful in studies of leukocyte migration and trafficking, as well as for transplantation studies.

*Of note, CX3CR1-GFP mice are also available harboring with the CD45.1 (Ly5.1 or Ptprc<sup>a</sup>) allele, which is atypical for the*

C57BL/6 congenic background (see Stock No. [008451](#)).

When compared with GFP expression in monocytes in C57BL/6-Tg(CD68-EGFP)1Drg/J mice (Stock No. [026827](#)) using a sterile zymosan peritonitis model, CD68-GFP monocytes retain high-level GFP expression as they differentiate to become mature macrophages, while, CX<sub>3</sub>CR1<sup>GFP</sup> monocytes downregulate GFP expression on differentiation into macrophages.

## + Development

## + Expression Data

## + Control Suggestions

## + Selected References

## - Genetics

### + *Cx3cr1*<sup>tm1Litt</sup>

## - Disease/Phenotype

### + Disease Terms

### + Research Areas By Genotype

### + Mammalian Phenotype Terms by Genotype

### + References

## - Technical Support

C H A T   O  F L I N E

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: *Cx3cr1*<sup>tm1Litt</sup>

Probe: *Cx3cr1*<sup>tm1Litt</sup> Probe

[Genotyping resources and troubleshooting](#)

### Dietary Information

LabDiet® 5K52 formulation (6% fat)

### Breeding Considerations

When maintaining a live colony, these mice are bred as homozygotes.

[Additional Breeding and Husbandry Support](#)

### Mating System

Homozygote x Homozygote

## Citation

When using the Cx3cr1<sup>tm1Litt</sup> GFP mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #005582 in your Materials and Methods section.

[Facility Barrier Level Descriptions](#)

 [AX11 \(Maximum\)](#)

## ➔ Pricing & Availability



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

Available Now

## Domestic **International**

Pricing effective for USA, Canada and Mexico shipping destinations

Live Mouse			
AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Homozygous for Cx3cr1 <sup>tm1Litt</sup>	\$236.78
5 weeks	Female	Homozygous for Cx3cr1 <sup>tm1Litt</sup>	\$236.78
	Male	Homozygous for Cx3cr1 <sup>tm1Litt</sup>	\$236.78
6 weeks	Female	Homozygous for Cx3cr1 <sup>tm1Litt</sup>	\$236.78
	Male	Homozygous for Cx3cr1 <sup>tm1Litt</sup>	\$236.78
7 weeks	Female	Homozygous for Cx3cr1 <sup>tm1Litt</sup>	\$236.78
	Male	Homozygous for Cx3cr1 <sup>tm1Litt</sup>	\$236.78
8 weeks	Female	Homozygous for Cx3cr1 <sup>tm1Litt</sup>	\$236.78
	Male	Homozygous for Cx3cr1 <sup>tm1Litt</sup>	\$236.78

## Related Products and Services

Frozen Mouse Embryo	<a href="#">B6.129P2(Cg)-Cx3cr1&lt;tm1Litt&gt;/J Frozen Embryos</a>	\$2595.00
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Email: [TechTran@jax.org](mailto:TechTran@jax.org)

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