

B6.Cg-Ptprc^a Cx3cr1^{tm1Litt}/LittJ

Stock No: **008451** | CX₃CR1^{GFP}

◆ Congenic, Spontaneous Mutation, Targeted Mutation

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

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migration and trafficking, as well as for transplantation studies with C57BL/6 (CD45.2: Ptprc^b) mice.

Donating Investigator

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

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GENETIC OVERVIEW

Genetic Background

Generation

N11F39
(2020-06-25 00:00:00)

Ptprc^a

Alele Type

Not Applicable

Gene Symbol

Ptprc

Gene Name

protein tyrosine phosphatase, receptor type, C

Cx3cr1^{tm1Litt}

Alele Type

Targeted (Reporter,
Null/Knockout)

Gene Symbol

Cx3cr1

Gene Name

chemokine (C-X3-C motif) receptor 1

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools
Cancer Research

[VIEW ALL RESEARCH APPLICATIONS](#)

BASE PRICE

Starting at:

\$236.78 Domestic price for female 4-week

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[- 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 wild type 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 mice also express the CD45.1 (Ly5.1 or P^{trc}^a) allele, which is atypical for the C57BL/6 congenic background, and this marker may be used to track donor cell populations in transplantation studies with C57BL/6 (CD45.2, Ly5.2 or P^{trc}^b) mice. These CX3CR1-GFP 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 with the P^{trc}^b allele normally found in the C57BL/6 genetic background (see Stock No. [005582](#)).

[+ Development](#)

[+ Expression Data](#)

[+ Control Suggestions](#)

[+ Selected References](#)

[- Genetics](#)

+ [Ptprc^a](#)

+ [Cx3cr1^{tm1Litt}](#)

– 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

Probe: [Ptprc End Point-Alternate 1](#)

End Point Analysis: [Crb1 End Point](#)

Standard PCR: [Cx3cr1alternate1](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

When maintaining a live colony, these mice are bred as homozygous for the *Cx3cr1* mutant allele and homozygous for the *Ptprc^a* allele.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the CX₃CR1^{GFP} mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #008451 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

➔ Pricing & Availability



Available

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

Domestic **International**

Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE			
AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Homozygous for Ptprc, Homozygous for Cx3cr1 ^{tm1Litt}	\$236.78
	Male	Homozygous for Ptprc, Homozygous for Cx3cr1 ^{tm1Litt}	\$236.78
5 weeks	Female	Homozygous for Ptprc, Homozygous for Cx3cr1 ^{tm1Litt}	\$236.78
	Male	Homozygous for Ptprc, Homozygous for Cx3cr1 ^{tm1Litt}	\$236.78
6 weeks	Female	Homozygous for Ptprc, Homozygous for Cx3cr1 ^{tm1Litt}	\$236.78
	Male	Homozygous for Ptprc, Homozygous for Cx3cr1 ^{tm1Litt}	\$236.78
7 weeks	Female	Homozygous for Ptprc, Homozygous for Cx3cr1 ^{tm1Litt}	\$236.78
	Male	Homozygous for Ptprc, Homozygous for Cx3cr1 ^{tm1Litt}	\$236.78
8 weeks	Female	Homozygous for Ptprc, Homozygous for Cx3cr1 ^{tm1Litt}	\$236.78
	Male	Homozygous for Ptprc, Homozygous for Cx3cr1 ^{tm1Litt}	\$236.78
9 weeks	Female	Homozygous for Ptprc, Homozygous for Cx3cr1 ^{tm1Litt}	\$236.78
	Male	Homozygous for Ptprc, Homozygous for Cx3cr1 ^{tm1Litt}	\$236.78
10 weeks	Female	Homozygous for Ptprc, Homozygous for Cx3cr1 ^{tm1Litt}	\$236.78
	Male	Homozygous for Ptprc, Homozygous for Cx3cr1 ^{tm1Litt}	\$236.78
11 weeks	Female	Homozygous for Ptprc, Homozygous for Cx3cr1 ^{tm1Litt}	\$236.78
	Male	Homozygous for Ptprc, Homozygous for Cx3cr1 ^{tm1Litt}	\$236.78
12 weeks	Female	Homozygous for Ptprc, Homozygous for Cx3cr1 ^{tm1Litt}	\$236.78
	Male	Homozygous for Ptprc, Homozygous for Cx3cr1 ^{tm1Litt}	\$236.78

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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

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