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**Stock No:** 005582 | **CX3CR1-GFP** 

Congenic, Targeted Mutation



#### PLACE ORDER

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



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

### GENETIC OVERVIEW

Genetic Background Generation

N13F5

(2019-06-13 00:00:00)

Cx3cr1tm1Litt

Allele Type Gene Symbol Gene Name

Targeted (Reporter, Cx3cr1

Null/Knockout)

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



#### 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).

zymosan peritonitis model, CD68-GFP monocytes retain high-level GFP expression as they differentiate to become mature macrophages, while, CX <sub>3</sub> CR1 GFP monocytes downregulate GFP expression on differentiation into macrophages.		
• Development		
Expression Data		
◆ Control Suggestions		
• Selected References		
<ul><li>Genetics</li></ul>		
• Cx3cr1 <sup>tm1Litt</sup>		
<ul> <li>Disease/Phenotype</li> </ul>		
• Disease Terms		
Research Areas By Genotype		
Mammalian Phenotype Terms by Genotype		
• References		
Technical Support		

When compared with GFP expression in monocytes in C57BL/6-Tg(CD68-EGFP)1Drg/J mice (Stock No. 026827) using a sterile

CHAT OFFLINE

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 ALK3 Reports mouse strain in a publication, please cite the originating article(s) and include JAX stock #005582 in your Materials, and Methods section.

AX11 (Maximum)

# Pricing & Availability



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

Available Now

#### Domestic Internation Pricing effective for USA, Canada and Mexico shipping destinations Live Mouse **PRICE AGE GENOTYPE** SEX Homozygous for Cx3cr1 tm1Litt 4 weeks Female \$236.78 Homozygous for Cx3cr1 tm1Litt 5 weeks Female \$236.78 Homozygous for Cx3cr1 tm1Litt \$236.78 Male Homozygous for Cx3cr1<sup>tm1Litt</sup> 6 weeks Female \$236.78 Homozygous for Cx3cr1<sup>tm1Litt</sup> Male \$236.78 Homozygous for Cx3cr1 tm1Litt 7 weeks Female \$236.78 Homozygous for Cx3cr1 tm1Litt Male \$236.78 Homozygous for Cx3cr1 tm1Litt 8 weeks Female \$236.78 Homozygous for Cx3cr1 tm1Litt Male \$236.78

Related Products and Services			
Frozen Mouse Embryo	B6.129P2(Cg)-Cx3cr1 <tm1litt>/J Frozen Embryos</tm1litt>	\$2595.00	

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All

By Allele

By Gene

By Collection

All Related Strains

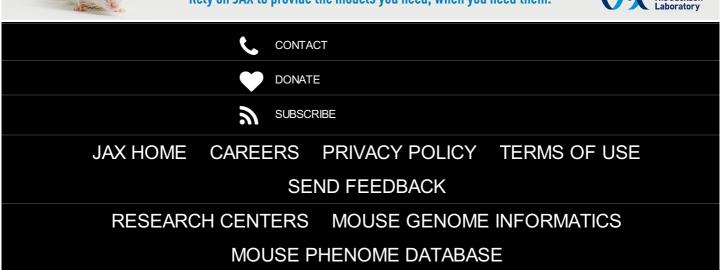




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