

**B6.129(FVB)-Cd68<sup>tm1.1Shnd</sup>/J**

Stock No: **023543** | CD68

 Congenic, 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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and antigen presentation.

### Donating Investigator

Christian Schindler, Columbia University

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## GENETIC OVERVIEW

Genetic Background

Generation

*Cd68<sup>tm1.1Shnd</sup>*

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

*Cd68*

CD68 antigen

VIEW GENETICS

## RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity 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

In this strain, a *rtTA* (reverse tetracycline regulated transactivator) was placed downstream of the transcriptional start site of the CD68 antigen (*Cd68*) gene, abolishing gene function. The donating investigator was not able to detect rtTA expression in these mice. CD68, also known as macrosialin, is a lysosome associated membrane protein which serves as a macrophage marker in bone marrow, brain, liver, and osteoclasts. It is upregulated by various inflammatory stimuli, including oxidized Low Density Lipoprotein. It may serve as a scavenger receptor. Homozygotes are viable and fertile. Dendritic cells from these mice exhibit enhanced antigen presenting activity when stimulated with ovalbumin. Macrophages also show increased lipid uptake.

### Development

### Control Suggestions

### Selected References

## Genetics

### *Cd68<sup>tm1.1Shnd</sup>*

## Disease/Phenotype

### Disease Terms

### Research Areas By Phenotype

### Mammalian Phenotype Terms by Genotype

- 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:[Cd68alternate1](#)  
[Genotyping resources and troubleshooting](#)

Breeding Considerations

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

[Additional Breeding and Husbandry Support](#)

Citation

When using the CD68<sup>-</sup> mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #023543 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



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Domestic | International

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Heterozygous for Cd68<tm1.1Shnd>	\$2,854.50

RELATED PRODUCTS AND SERVICES

## PAYMENT TERMS AND CONDITIONS

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

## THE JACKSON LABORATORY'S GENOTYPE PROMISE

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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#### LICENSING INFORMATION

Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)

### Related Strains

All

By Allele

By Gene

By Collection



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