The Jackson Laboratory

B6N.129S1(FVB)-*Ccl2* $^{tm1.2Tyos}$ /J

Stock No: **023347**

Congenic, Targeted Mutation

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

PLACE ORDER

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Donating Investigator

Teizo Yoshimura, National Cancer Institute

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GENETIC OVERVIEW

Genetic Background	Generation

Ccl2$^{tm1.2Tyos}$

Allele Type	Gene Symbol	Gene Name
Targeted (Conditional ready (e.g. floxed), No functional change)	*Ccl2*	chemokine (C-C motif) ligand 2

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research
Research Tools

VIEW ALL RESEARCH APPLICATIO

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

These *MCP-1*^{flox} mice possess *loxP* sites flanking exons 1-2 of the chemokine (C-C motif) ligand 2 (*Ccl2*) gene. MCP-1 (monocyte chemoattractant protein-1) is a chemotactic factor that recruits monocytes and basophils to sites of inflammation or injury. This chemokine plays a role in the development of inflammatory responses as well as some diseases including atherosclerosis, psoriasis, pulmonary fibrosis, nephritis, multiple sclerosis and cancer. Mice that are homozygous for this allele are viable and fertile. These mice produce MCP-1 whose level is compatible to that in WT mice in response to intraperitoneal injection of thioglycollate or zymosan. When these mutant mice are bred to mice that express Cre recombinase, resulting offspring will have exons 1-2 deleted in *cre*-expressing tissues.

For example, when crossed to B6.FVB-Tg(Ella-cre)C5379Lmgd/J mice (Stock No. 003724) this mutant strain does not produce MCP-1 in response to peritonitis induction, but produces higher levels of MPC-3 and MCP-5. The number of macrophages recruited to the site of infection is reduced.

Development

Control Suggestions

Selected References

Genetics

Ccl2$^{tm1.2Tyos}$

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols
Standard PCR:Ccl2
Genotyping resources and troubleshooting

Breeding Considerations

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

Additional Breeding and Husbandry Support

Mating System
Heterozygote x Heterozygote

Citation
When using the B6N.129S1(FVB)-*Ccl2*$^{tm1.2Tyos}$/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #023347 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

Cryo Recovery

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

Domestic | Internatic

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous for Ccl2<tm1.2Tyos>	$2,854.50

RELATED PRODUCTS AND SERVICES		
Frozen Mouse Embryo	B6N.129S1(FVB)-Ccl2<tm1.2Tyos>/J Frozen Embryo	$2595.00

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

TERMS OF USE

General Terms and Conditions

QUESTIONS ABOUT TERMS OF USE

ADDITIONAL USE RESTRICTIONS APPLY

Use of MICE by companies or for-profit entities requires a license prior to shipping.

LICENSING INFORMATION

Phone: 207-288-6470
Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection

Choose other country or region

Did you find what you were looking for?

Yes No