

B6.129P2(C)-*Ccr7*^{tm1Rfor} /J

Stock No: 006621 | CCR7-

 Congenic, Targeted Mutation

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

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naive T cells and dendritic cells, and secondary lymph organs exhibit morphological abnormalities. These mutant mice may be useful in immunological studies of chemokine receptors, including T- and B-cell function in primary and adaptive immune responses, entry of lymphocytes and dendritic cells into secondary lymphoid organs, alloimmune responses, and the development of transplant rejection.

Donating Investigator

Martin Lipp, Max-Delbrueck-Center

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

N9+N2F6
(2020-03-19 00:00:00)

Ccr7^{tm1Rfor}

Alele Type

Targeted (Null/Knockout)

Gene Symbol

Ccr7

Gene Name

chemokine (C-C motif) receptor 7

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research

Research Tools

Internal/Organ Research

Hematological Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$236.78 Domestic price for female 4-week

V I E W P R I C E L I S T

Details

Detailed Description

Homozygous mice are viable and fertile and show delayed primary B or T cell immune responses. Lymph nodes from homozygous mice are devoid of naive T cells and dendritic cells (DCs), but the T cell populations in the blood, the red pulp of the spleen, and in the bone marrow are greatly expanded. Secondary lymph organs exhibit morphological abnormalities, and adoptive transfer experiments demonstrate impaired B- and T-cell migration. In a model of acute allogeneic tumor rejection, homozygous mice fail to reject subcutaneously injected MHC class I mismatched tumor cells, and cytotoxic activity of allospecific T cells is severely compromised. These mutant mice (along with CXCR5-deficient mice - Stock No. [006659](#)) - may be useful in immunological studies of chemokine receptors, including T- and B-cell function in primary and adaptive immune responses, entry of lymphocytes and dendritic cells into secondary lymphoid organs (and their homing to T- and B-cell zones therein), alloimmune responses, and the development of transplant rejection.

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.

Development

Control Suggestions

Selected References

Genetics

[+](#) *Ccr7^{tm1Rfor}*

⊖ 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

Standard PCR:[Ccr7 Alt1](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

New Diet as of March 2015: Lab Diet® 5K0Q (6% fat)

Breeding Considerations

When maintaining a live colony, homozygous mice are bred.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the CCR7- mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #006621 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX10 \(Standard\)](#)

⊖ Pricing & Availability



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

Available

Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE			
AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Homozygous for Ccr7 ^{tm1Rfor}	\$236.78
	Male	Homozygous for Ccr7 ^{tm1Rfor}	\$236.78
5 weeks	Female	Homozygous for Ccr7 ^{tm1Rfor}	\$236.78
	Male	Homozygous for Ccr7 ^{tm1Rfor}	\$236.78
6 weeks	Female	Homozygous for Ccr7 ^{tm1Rfor}	\$236.78
	Male	Homozygous for Ccr7 ^{tm1Rfor}	\$236.78
7 weeks	Female	Homozygous for Ccr7 ^{tm1Rfor}	\$236.78
	Male	Homozygous for Ccr7 ^{tm1Rfor}	\$236.78
8 weeks	Female	Homozygous for Ccr7 ^{tm1Rfor}	\$236.78
	Male	Homozygous for Ccr7 ^{tm1Rfor}	\$236.78
9 weeks	Female	Homozygous for Ccr7 ^{tm1Rfor}	\$236.78
	Male	Homozygous for Ccr7 ^{tm1Rfor}	\$236.78
10 weeks	Female	Homozygous for Ccr7 ^{tm1Rfor}	\$236.78
	Male	Homozygous for Ccr7 ^{tm1Rfor}	\$236.78
11 weeks	Female	Homozygous for Ccr7 ^{tm1Rfor}	\$236.78
	Male	Homozygous for Ccr7 ^{tm1Rfor}	\$236.78
12 weeks	Female	Homozygous for Ccr7 ^{tm1Rfor}	\$236.78
	Male	Homozygous for Ccr7 ^{tm1Rfor}	\$236.78

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.129P2(C)-Ccr7 ^{tm1Rfor} /J Frozen Embryo	\$2595.00
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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](#)

Q U E S T I O N S A B O U T T E R M S O F U S E

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

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