



# C . 1 2 9 S 2 C B / $CD28^{fl/fl}$ / J

Stock No: 002667 | CD28<sup>-</sup>

Congenic, Targeted Mutation



CRYO RECOVERY

P L A C E O R D E R

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

## Overview

### Also Known As: CD28<sup>-</sup>

These *Cd28* knock-out mice exhibit an impaired response to lectins. They are suitable for use in applications related to the study of cell-mediated and humoral immune responses *in vivo*.

## Donating Investigator

Dr. Tak Mak, University Health Network/Un of Toronto

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### GENETIC OVERVIEW

Genetic Background

Generation

*Cd28<sup>tm1Mak</sup>*

Allele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

*Cd28*

CD28 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

VIEW PRICE LIST

#### Details

##### Detailed Description

Mice homozygous for the *Cd28<sup>tm1Mak</sup>* targeted mutation exhibit normal development of T and B cells, but have an impaired response to lectins. Other characteristics of homozygous mutant mice include decreased IL2 receptor expression, reduced basal Ig levels, low titers of IgG1 and IgG2b but increased IgG2a, reduced activity of T helper cells and diminished Ig class switching after infection with vesicular stomatitis virus. Infection of mice with lymphocytic choriomeningitis virus creates induced and delayed-type hypersensitivity response in cytotoxic T cells.

##### Control Suggestions

##### Selected References

## Genetics

+ [Cd28<sup>tm1Mak</sup>](#)

## Disease/Phenotype

+ [Disease Terms](#)

+ [Research Areas By Phenotype](#)

+ [Mammalian Phenotype Terms by Genotype](#)

+ [References](#)

## Technical Support

CHAT OFFLINE

CONTACT TECHNICAL SUPPORT

### Genotyping Protocols

Separated MCA: [Nnt](#)

Standard PCR: [Cd28alternate1](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

When maintaining a live colony, these mice can be bred as homozygotes. The expected coat color from breeding is albino.

[Additional Breeding and Husbandry Support](#)

### Appearance

albino

Related Genotype: *A/A Tyrp1<sup>b</sup>/Tyrp1<sup>b</sup> Tyr<sup>c</sup>/Tyr<sup>c</sup>*

### Citation

When using the CD28<sup>-</sup> mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #002667 in your Materials and Methods section.

[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 International

Pricing effective for USA, Canada and Mexico shipping destinations

Cryorecovery - Domestic Pricing		
SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Heterozygous or wildtype for Cd28<tm1Mak>	\$2,854.50

Related Products and Services		
<a href="#">Frozen Mouse Embryo</a>	C.129S2(B6)-Cd28<tm1Mak>/J	\$2595.00

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### Terms Of Use

[General Terms and Conditions](#)

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Phone: 207-288-6470

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

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