



# STOCK *Cdon<sup>lacZ-2</sup>* / J

Stock No: 008602

Targeted Mutation



CRYO RECOVERY

PLACE ORDER

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

## Overview

### Also Known As: 129/Sv-Cdo, 129/Sv-Cdon

Homozygous  $Cdon^{lacZ-2}$  (or  $Cdo^{lacZ-2}$ ) mice harbor a beta-galactosidase (*lacZ*) "knock-in" mutation that also abolishes expression of the targeted *Cdon* (cell adhesion molecule-related/down-regulated by oncogenes) gene. This strain may be useful in studying holoprosencephaly (HPE; a common defect of human forebrain development), craniofacial/brain development and the regulation of Sonic Hedgehog (Shh) signaling pathways.

### Donating Investigator

Robert S Krauss, Mount Sinai School of Medicine

READ MORE +

## GENETIC OVERVIEW

Genetic Background      Generation

*Cdon*<sup>tm2Rsk</sup>

Allele Type	Gene Symbol	Gene Name
Targeted (Reporter, Null/Knockout)	<i>Cdon</i>	cell adhesion molecule-related/down-regulated by oncogenes

V I E W   G E N E T I C S

## RESEARCH APPLICATIONS

Research Tools  
Developmental Biology Research  
Cell Biology Research  
Neurobiology Research

V I E W   A L L   R E S E A R C H   A P P L I C A T I O N S

## 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

Homozygous *Cdon*<sup>lacZ-2</sup> (or *Cdo*<sup>lacZ-2</sup>) mice on a "129/Sv" genetic background are viable and fertile, harboring a beta-galactosidase (*lacZ*) "knock-in" mutation that also abolishes targeted gene expression. *LacZ* expression mimics the pattern observed for the endogenous gene. On a 129/Sv background, *Cdo*-deficient mice exhibit craniofacial midline defects identified as microforms of holoprosencephaly (HPE; a common defect of human forebrain development) with partial penetrance, grossly normal limb development and no perinatal lethality. These *Cdon*<sup>lacZ-2</sup> (or *Cdo*<sup>lacZ-2</sup>) mice are a genetic model of HPE and may be useful in studying craniofacial/brain development and the regulation of Sonic Hedgehog (Shh) signaling pathways, as well as for *lacZ* expression in *Cdo*-expressing tissues.

*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 of these mutant mice could vary from that originally described. For example, the penetrance and expressivity of HPE phenotypes for *Cdo*-deficient mice is dependent upon genetic background: homozygotes on the C57BL/6 genetic background display severe semilobar HPE and cebocephaly and perinatal lethality with high penetrance, while homozygotes on a mixed 129/Sv x C57BL/6*

genetic background display craniofacial microforms of HPE with high penetrance and partial perinatal lethality.

+ Development

+ Expression Data

+ Control Suggestions

+ Selected References

- Genetics

+ *Cdon*<sup>tm2Rsk</sup>

- Disease/Phenotype

+ Disease Terms

+ Research Areas By Genotype

+ Mammalian Phenotype Terms by Genotype

+ References

- Technical Support

CHAT OFFLINE

CONTACT TECHNICAL SUPPORT

## Genotyping Protocols

Standard PCR: *Cdon*<sup>tm2Rsk</sup>

[Genotyping resources and troubleshooting](#)

## Breeding Considerations

When maintaining a live colony of *Cdon*<sup>lacZ-2</sup> on the 129/Sv genetic background, the donating investigator breeds heterozygous mice together.

[Additional Breeding and Husbandry Support](#)

## Citation

When using the STOCK *Cdon*<sup>tm2Rsk</sup>/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #008602 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	GENOTYPE	PRICE
Cryo Recovery	Heterozygous or Wild-type for Cdon<tm2Rsk>	\$2,854.50

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a [Dedicated Supply](#) for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

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## ➔ 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

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By Allele

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*Leading the search for*

# TOMORROW'S CURES

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