



# B 6 . C<sup>g</sup>/c g<sup>2</sup><sup>tm2<sup>dij</sup></sup>/ J

Stock No: 029910 | Plcg2 KO

Endonuclease-Mediated 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



## MODEL-AD

Model Organism Development & Evaluation for Late-Onset Alzheimer's Disease

Also Known As: Plcg2 KO

This CRISPR/Cas9 generated mutant of the *Plcg2* gene carries a knock-out mutation.

## Donating Investigator

Mike Sasner, The Jackson Laboratory

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## GENETIC OVERVIEW

Genetic Background

Generation

*Plcg2<sup>em2Aduj</sup>*

Allele Type

Gene Symbol

Gene Name

Endonuclease-mediated  
(Null/Knockout)

*Plcg2*

phospholipase C, gamma 2

VIEW GENETICS

## RESEARCH APPLICATIONS

Research Tools

Immunology, Inflammation and Autoimmunity Research

Hematological Research

VIEW ALL RESEARCH APPLICATIONS

## BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

## Details

### Detailed Description

CRISPR/cas9 endonuclease mediated genome editing of the *Plcg2*, phospholipase C, gamma 2, gene was used to introduce a 13 bp knock-out mutation (nucleotides 1570 to 1582). The targeted *Plcg2* gene encodes a transmembrane enzyme that acts as a signaling molecule in such diverse biological processes as hematopoietic cells differentiation, tissue morphogenesis, autoinflammation, antibody deficiency, and autoimmunity. Mutations in this gene have been associated with PLCG2 associated antibody deficiency and immune dysregulation (PLAID). As the mice are characterized, we will modify the strain description and add phenotype data. Homozygous viability/fertility has not been tested (June 2018).

+ Development

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+ Control Suggestions

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- Genetics

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+ *Plcg2<sup>em2Aduj</sup>*

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- Disease/Phenotype

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+ Disease Terms

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+ Research Areas By Genotype

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+ Mammalian Phenotype Terms by Genotype

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+ References

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- Technical Support

C H A T   O  F L I N E

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

Sanger sequencing: [Plcg2 P522R-SEQ](#)

Probe: [Plcg2<sup>em2Aduj</sup> - EP](#)

[Genotyping resources and troubleshooting](#)

## Breeding Considerations

Heterozygotes may be bred to C57BL/6J (Stock# [000664](#)) or wildtype littermates. As the mice are characterized, we will modify the strain description if necessary and add data related to viability and fertility. Homozygous viability/fertility has not been tested (June 2018).

[Additional Breeding and Husbandry Support](#)

## Citation

When using the [Plcg2<sup>em2Aduj</sup> KO](#) mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #029910 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



Typically mice are recovered in 10-14 weeks. Contact Customer Service to place

Cryo Recovery [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 wildtype for Plcg2<em>Aduj>	\$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.

### Related Products and Services

Frozen Mouse Embryo	B6.Cg-Plcg2<em>Aduj>/J	\$2595.00
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## 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.

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### 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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## Licensing Information

Phone: 207-288-6470

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

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All Related Strains



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