

C57BL/6-Grn^{tm1Aidi}/J

Stock No: **013174**

 Coisogenic, Targeted Mutation

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

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floxed strain may be used to generate whole mouse or tissue-specific mutants that are useful for studying inflammation, infectious disease, frontotemporal dementia and other neurodegenerative diseases.

Donating Investigator

Aihao Ding, Weill Medical School of Cornell University

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GENETIC OVERVIEW

Genetic Background

Generation

Grn^{tm1Aidi}

Alele Type

Targeted (Conditional ready (e.g. floxed), No functional change)

Gene Symbol

Grn

Gene Name

granulin

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

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

These *Gm* floxed mutant mice possess a single *loxP* site upstream of the promoter region of the granulin (*Gm*) gene, and a second *loxP* site fused to a FRT-flanked neomycin/kanamycin (neo/kan) resistance cassette downstream of exon 4. Mice that are homozygous for this allele are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. When these mutant mice are bred to mice that express Cre recombinase, resulting offspring will have exons 1- 4 deleted in *cre*-expressing tissues. When bred with mice expressing Cre-recombinase driven by the chicken actin gene promoter (CAG-cre), granulin deficiency is widespread (see Stock No. [013175](#)). These mice exhibit neurodegeneration as seen in human frontotemporal dementia and have an exaggerated inflammation response when exposed to microbial agents. This floxed strain may be used to generate whole mouse or tissue-specific mutants that are useful for studying inflammation, infectious disease, frontotemporal dementia and other neurodegenerative diseases.

Development

Control Suggestions

Selected References

Genetics

Gm^{tm1Aidi}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

- 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: [Grn](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, homozygotes may be bred together.

[Additional Breeding and Husbandry Support](#)

Citation

When using the C57BL/6-*Gm^{tm1Aidi}*/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #013174 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 **International**

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous for Grn<tm1Aidi>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

C57BL/6-Grn<tm1Aidi>/J

\$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.

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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

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By Allele

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