

B6;129S6-Gucy2e^{tm1Gar}/J

Stock No: **004953**

 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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Donating Investigator

David L. Garbers, U.T. Southwestern Medical Center

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GENETIC OVERVIEW

Genetic Background

Generation

Gucy2e^{tm1Gar}

Alele Type

Targeted (Null/Knockout)

Gene Symbol

Gucy2e

Gene Name

guanylate cyclase 2e

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Sensorineural 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

Mice that are homozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. No gene product (protein) is detected by Western blot analysis of eye tissue. Progressive loss of electroretinograms (ERGs) of cone cells from homozygotes begins at age 3 to 5 weeks. ERGs are completely lost in mice older than 8 weeks of age. Histological analysis of mutants between 4 and 5 weeks of age reveals retinal cone cell atrophy and a reduction in the number of cone cells. Isolated retinal rod cells exhibit reduced a-wave and b-wave ERGs, and impaired photoresponse. This mutant mouse strain may be useful in studies of incomplete achromatopsia, progressive cone-rod dystrophy, retinitis pigmentosa and Leber congenital amaurosis.

Development

Control Suggestions

Selected References

Genetics

Gucy2e^{tm1Gar}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR: [Gucy2e](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

This strain originated on a B6;129S6 background. When held in a live colony, it was maintained by homozygous matings on the same background.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6;129S6-*Gucy2e*^{tm1Gar}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #004953 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 or Wild-type for <i>Gucy2e</i> <tm1Gar>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6;129S6- <i>Gucy2e</i> <tm1Gar>/J Frozen Embryos	\$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.

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

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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

All

By Allele

By Gene

By Collection



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