

C.FVB-Tg(CAG-luc,-GFP)L2G85Chco/FathJ

Stock No: **010545** | L2G85

 Congenic, Transgenic

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

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directed by the CAG promoter, and may be useful in studies of transplantation, noninvasive lineage mapping, *in vivo* bioluminescence imaging and technology development.

Donating Investigator

C Garrison Fathman, Stanford University School of Medicine

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(CAG-luc,-GFP)L2G85Chco

Alele Type

Transgenic (Reporter)

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

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 L2G85.BALB/c mice harbor the CAG-luc-eGFP L2G85 transgene. Homozygous mice are viable and fertile, with expression of firefly luciferase and enhanced green fluorescent protein directed by the CAG promoter (human cytomegalovirus immediate early promoter enhancer with chicken beta-actin/rabbit beta-globin hybrid promoter). Bioluminescence is detected in heart, spleen, muscle, pancreas, skin, thymus and bone marrow. Luciferase activity is not detected in mature erythrocytes, although low levels are detected in erythrocyte precursors and varying levels of activity in all leukocyte subsets tested. Homozygotes have no reported gross physical or behavioral abnormalities. Following luciferin injection, luciferase expression is generally greater in males than females. GFP fluorescence is detected in skin (upper epidermal layers) by fluorescence microscopy. The Donating Investigator reports that for the FVB-Tg(CAG-luc,-GFP)L2G85Chco/J strain (Stock No. [008450](#)), no GFP fluorescence is detected in hematopoietic tissues by flow cytometric analysis.

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 could vary from that originally described. We will modify the strain description if necessary as published results become available. The donating investigator reports that following luciferin injection, luciferase expression is generally greater in males, and this gender difference is consistent across all genetic backgrounds tested. However, the level of luciferase activity varies dependent upon the genetic background (DBA/1 > NOD = FVB > BALB/c).

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(CAG-luc,-GFP)L2G85Chco

– Disease/Phenotype

+ [Disease Terms](#)

+ [Research Areas By Phenotype](#)

+ [Mammalian Phenotype Terms by Genotype](#)

+ [References](#)

– 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:[Generic Tg\(CAG-FLuc\) alternate1](#)

Standard PCR:[Firefly Luc](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these mice can be bred as homozygotes.

[Additional Breeding and Husbandry Support](#)

Citation

When using the L2G85 mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #010545 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

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	Hemizygous or Non Carrier for Tg(CAG-luc,-GFP)L2G85Chco	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	C.FVB-Tg(CAG-luc-GFP)L2G85Chco/FathJ	\$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.

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[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

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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