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

Stock No: 010545 | L2G85

Congenic, Transgenic

PLACE ORDER

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.
Also Known As: L2G85.BALB/c, L2G85
These L2G85.BALB/c mice harbor the CAG-luc-eGFP L2G85 transgene, exhibit widespread expression of firefly luciferase 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

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tr>
<td>Tg(CAG-luc,-GFP)</td>
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Allele Type
Transgenic (Reporter)

RESEARCH APPLICATIONS

Research Tools

BASE PRICE
Starting at:
$2,854.50 Domestic price Cryo Recovery

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).
Genotyping Protocols
Standard PCR: Firefly Luc
Standard PCR: Fluorescent Proteins (Generic GFP)
MELT: Generic Tg(CAG-FLuc) alternate1
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 JG85 mouse strain in a publication, please cite the originating article(s) and include JAX stock #010545 in your Materials and Methods section.
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 an order or for more information.

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<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Hemizygous or Non Carrier for Tg(CAG-luc,-GFP)L2G85Chco</td>
<td>$2,854.50</td>
</tr>
</tbody>
</table>

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.

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.

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Email: TechTran@jax.org

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- Related Strains

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- By Allele

- By Gene

- By Collection

All Related Strains