FVB-Tg(CAG-luc,-GFP)L2G85Chco/J

Stock No: 008450 | L2G85

Coisogenic, Transgenic

Available

PLACE ORDER

Live mice available in varying quantities. Ask Customer Service for details.

Overview

Also Known As: L2G85
Mice harboring the CAG-luc-eGFP L2G85 transgene exhibit expression of firefly luciferase directed by the CAG promoter (human cytomegalovirus immediate early promoter enhancer with chicken beta-actin/rabbit beta-globin hybrid promoter). These CAG-luc-eGFP L2G85 transgenic mice may be useful in studies of transplantation, noninvasive lineage mapping, in vivo bioluminescence imaging and technology development.

Donating Investigator
**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>N21 x N2F10</td>
<td>(2019-03-22 00:00:00)</td>
</tr>
</tbody>
</table>

**Tg(CAG-luc,-GFP)L2G85Chco**

**Allele Type**

Transgenic (Reporter)

**RESEARCH APPLICATIONS**

Research Tools

**BASE PRICE**

Starting at:

$255.00 Domestic price for female

**Details**

**Detailed Description**

Mice homozygous for the CAG-luc-eGFP L2G85 transgene are viable and fertile, with expression of firefly luciferase and enhanced green fluorescence 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.

**Development**
Genotyping Protocols
MELT: Generic Tg(CAG-FLuc) alternate1
QPCR: Generic GFP/EGFP qPCR
Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52 formulation (6% fat)

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

Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Citation
When using the JCRS strain in a publication, please cite the originating article(s) and include JAX stock #008450 in your Materials and Methods section.

AX10 (Standard)
Live mice available in varying quantities. Ask Customer Service for details.

### Domestic & International

Pricing effective for USA, Canada and Mexico shipping destinations

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Homozygous for Tg(CAG-luc,;GFP)L2G85Chco</td>
<td>$255.00</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Tg(CAG-luc,;GFP)L2G85Chco</td>
<td>$255.00</td>
</tr>
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</table>

### Related Products and Services

<table>
<thead>
<tr>
<th>Product</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
<td>$2,595.00 per straw or vial</td>
</tr>
</tbody>
</table>

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Terms of Use

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**Questions about Terms of Use**

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Licensing Information

Phone: 207-288-6470
Email: TechTran@jax.org

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- All
- By Allele
- By Gene
- By Collection

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