

C.FVB-Tg(Gnrhr-luc/EGFP)L8MrIn/LmwJ

Stock No: **027848** | Glowing Head on BALB/c

 Congenic, 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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Enhanced Green Fluorescent protein, and can be used as a host for labeled syngeneic tumor transplantation.

Donating Investigator

Dr. Glenn T. Merlino, National Institutes of Health

Lalage M. Wakefield, National Cancer Institute

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

Tg(Gnrhr-luc/EGFP)L8MrIn

Alele Type

Transgenic (Reporter)

VIEW GENETICS

RESEARCH APPLICATIONS

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 “Glowing Head” (GH) transgenic mice express the flLuc-eGFP (firefly luciferase-Enhanced Green Fluorescent Protein) fusion gene under the control of the rat growth hormone gene promoter. Transgene expression is targeted to the non-immune privileged anterior pituitary and does not interfere with pituitary function, as assessed by serum growth hormone levels. These transgenic mice are immune-tolerant to firefly luciferase and Enhanced Green Fluorescent protein, and can be used as an allograft recipient for labeled syngeneic tumor transplantation, avoiding the effects of xenobiotic/antigenic reporters on testing therapeutic agents. Specifically, this strain may be used with the 4T1 metastatic mammary tumor cell line. Mice that are hemizygous for the transgene and on the BALB/c background are viable and fertile. The Donating Investigator has not attempted to make the strain homozygous on the BALB/c background.

This “Glowing Head” transgenic is also available on a FVB/N genetic background: Stock No. [027665](#), and a C57BL/6 genetic background: Stock No. [027662](#).

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Gnrhr-luc/EGFP)L8Mrln

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: [Tg\(Gnrhr-luc/EGFP\)D8Mr1](#)
[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, hemizygous mice may be bred together, to wildtype siblings, or to BALB/cByJ inbred mice (Stock No. [001026](#)). The Donating Investigator has not attempted to make the strain homozygous on the BALB/c background.

[Additional Breeding and Husbandry Support](#)

Citation

When using the Glowing Head on BALB/c mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #027848 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



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CRYORECOVERY - DOMESTIC NOT-FOR-PROFIT & ACADEMIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Hemizygous or Non Carrier for Tg(Gnrhr-luc/EGFP)L8MrIn	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	C.FVB-Tg(Gnrhr-luc/EGFP)L8MrIn/LmwJ Frozen Embryo	\$2595.00
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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

NOT AVAILABLE TO COMPANIES OR FOR COMMERCIAL
[Use of MICE only available to non-profit entities.](#)

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

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By Collection



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