

STOCK Tg(CAG-Bgeo,-Tle1,-ALPP)1Lbe/J

Stock No: 006613 | Grg1^{lacZ}

 Transgenic

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

PLACE ORDER

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presence of a *loxP*-flanked Bgeo cassette inserted between the ACTB/CMV promoter and the *Tle1* coding sequence.

Donating Investigator

Corrinne Lobe, Sunnybrook & Women's College HSC

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

Tg(CAG-Bgeo,-Tle1,-ALPP)1Lbe

Alele Type

Transgenic (Conditional ready (e.g. floxed), Reporter, Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Cancer Research
Developmental Biology Research
Research Tools
Cell Biology 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

Hemizygous transgenic mice are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. These transgenic mice express the mouse transducin-like enhancer of split 1, homolog of *Drosophila* E(spl) gene, *Tle1* (also known as Groucho-related gene 1; *Grg1*) under the regulation of the chicken beta actin promoter (ACTB) and the cytomegalovirus (CMV) intermediate-early enhancer. An internal ribosome entry sequence (IRES) followed by the human alkaline phosphatase (ALPP) reporter gene inserted downstream of the *Tle1* gene directs co-expression of ALPP and TLE1. TLE1 and ALPP co-expression is blocked, however, by the presence of a *loxP*-flanked Bgeo (beta-galactosidase/neomycin resistance fusion protein) cassette inserted between the ACTB/CMV promoter and the *Tle1* coding sequence. In the absence of Cre recombinase, beta-galactosidase activity is detected in all tissues tested including pancreas, lung, kidney, cerebellum, heart, muscle and lens and retina. Diminished beta-galactosidase activity is observed in liver tissue. When transgenic mice are crossed with a Cre recombinase-expressing strain, *lacZ* expression in the resulting offspring is replaced by both ALPP and TLE1 protein in *cre*-expressing tissues. These mice may be useful in studying lung tumorigenesis.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(CAG-Bgeo,-Tle1,-ALPP)1Lbe

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 LacZ](#)

Standard PCR:[Generic LacZ Melt Curve Analysis](#)

Probe:[Generic LacZ Probe](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these mice are bred as hemizygotes. The Donating Investigator maintained the strain by crossing hemizygote mice with wildtype mice.

[Additional Breeding and Husbandry Support](#)

Citation

When using the $Grg1^{lacZ}$ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #006613 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.

CRYORECOVERY - DOMESTIC NOT-FOR-PROFIT & ACADEMIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Hemizygous or Non carrier for Tg(CAG-Bgeo,-Tle1,-ALPP)1Lbe	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	STOCK Tg(CAG-Bgeo -Tle1 -ALPP)1Lbe/J 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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LICENSING INFORMATION

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Email: TechTran@jax.org

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All

By Allele

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