



STOCK Tg(CAG-Bgeo, -TEL/AML1, -EG

Stock No: 006876

 Transgenic



CRYORECOVERY

PLACE ORDER

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

Overview

These mice harbor a Cre-conditional TEL-AML1 (or iZ/EG-TEL-AML1) transgene and have high and widespread expression of *lacZ* under the control of the CMV enhancer/chicken actin promoter prior to Cre-mediated excision of the upstream "floxed" STOP sequence. When bred to mice expressing Cre recombinase, the STOP sequence is removed in the resulting offspring, allowing transcription/co-expression of both the human TEL-AML1 fusion protein and EGFP in all *cre*-expressing cells. These iZ/EG-TEL-AML1 mice may be useful for global expression of *lacZ* or, when crossed to a *cre*-expressing strain, for studying hematopoietic development, cancer, and leukemia.

Donating Investigator

Corrinne Lobe, Sunnybrook & Women's College HSC

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(CAG-Bgeo,-TEL/AML1,-EGFP)A6Lbe

Allele Type

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

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Developmental Biology Research

Hematological Research

Cancer Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

Mice hemizygous for this Cre-conditional TEL-AML1 (or iZ/EG-TEL-AML1) transgene are viable and fertile. Homozygotes die *in utero*, presumably due to high *lacZ* expression. Prior to Cre-mediated excision of the "floxed" STOP sequence, high expression of *lacZ* is observed in cells and tissues. When bred to Cre recombinase transgenic mice, the STOP sequence (and beta-geo) is removed in the resulting offspring, allowing transcription/co-expression of both the human TEL-AML1 fusion protein and EGFP in all *cre*-expressing cells. TEL-AML1 transcripts are not observed in adult organ tissues prior to excision of the floxed sequences. Following Cre-mediated deletion of the STOP sequence (by B6.Cg-Tg(Tek-cre)12Flv/J, Stock No. [004128](#)), Western blot analysis reveals that EGFP levels are well correlated with TEL-AML1 transcript levels. While global expression of TEL-AML1 leads to embryonic lethality (E7.5), hematopoietic and endothelial expression leads to malignancy in B- and T- lymphoid cells and secondary mutations that closely resemble human TEL-AML1 associated leukemia. These transgenic mice may be useful for global expression of *lacZ* or, when crossed to a *cre*-expressing strain, for studying hematopoietic development, cancer, and leukemia.

Development

Expression Data

Control Suggestions

Genetics

Tg(CAG-Bgeo,-TEL/AML1,-EGFP)A6Lbe

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CHAT OFFLINE

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR: [Tg\(CAG-Bgeo,-TEL/AML1,-EGFP\)A6Lbe](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, hemizygotes are bred to wildtype siblings. Homozygous mice die *in utero* presumably due to high *lacZ* expression.

[Additional Breeding and Husbandry Support](#)

Citation

When using the STOCK Tg(CAG-Bgeo,-TEL/AML1,-EGFP)A6Lbe/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #006876 in your Materials and Methods section.

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.

Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

Cryorecovery - Domestic Pricing

SERVICE	GENOTYPE	PRICE
Cryo Recovery	Hemizygous or Non carrier for Tg(CAG-Bgeo,-TEL/AML1,-EGFP)A6Lbe	\$2,854.50

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.

Related Products and Services

Frozen Mouse Embryo	STOCK Tg(CAG-Bgeo-TEL/AML1-EGFP)A6Lbe/J	\$2595.00
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