



B 6 . 1 2 9 (C g) - T g (C A G - B g e o / G F P) 2 1 L b e

Stock No: 004178 | Z/EG

 Congenic, Transgenic



CRYO RECOVERY

P L A C E O R D E R

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

Also Known As: Z/EG

When bred to a strain expressing Cre recombinase, enhanced *GFP* replaces *lacZ* in tissues expressing *Cre* in this double reporter system. Expression is widespread and observed in embryonic and adult stages except in liver and lung tissue.

Donating Investigator

IMR Colony, The Jackson Laboratory

[READ MORE +](#)

GENETIC OVERVIEW

Genetic Background

Generation

Tg(CAG-Bgeo/GFP)21Lbe

Allele Type

Transgenic (Conditional ready (e.g. floxed), Reporter)

[VIEW GENETICS](#)

RESEARCH APPLICATIONS

Research Tools

Neurobiology Research

[VIEW ALL RESEARCH APPLICATIONS](#)

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

[VIEW PRICE LIST](#)

[Details](#)

[Detailed Description](#)

These Z/EG transgenic mice constitutively express *lacZ* under the control of the CMV enhancer/chicken actin promoter. Expression is widespread with notable exceptions being liver and lung tissue. Expression is observed throughout all embryonic and adult stages. When crossed with a Cre recombinase-expressing strain, *lacZ* expression is replaced with enhanced *GFP* expression in tissues expressing Cre. This double reporter system makes it possible to distinguish a lack of reporter expression from a lack of Cre recombinase expression while providing a means to assess Cre excision activity in live animals and cells.

As an example, when crossed to a strain expressing Cre recombinase in olfactory sensory neurons (see Stock No. [006668](#)), this mutant mouse strain may be useful in lineage tracing.

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.

[+ Development](#)

[+ Expression Data](#)

[+ Control Suggestions](#)

[+ Selected References](#)

[- Genetics](#)

[+ Tg\(CAG-Bgeo/GFP\)21Lbe](#)

[- Disease/Phenotype](#)

[+ Disease Terms](#)

[+ Research Areas By Genotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

[- Technical Support](#)

C H A T O  F L I N E

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

Probe: [Generic GFP](#)

Standard PCR: [Generic GFP](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these ZEG transgenic mice are bred to C57BL/6J. Compared to transgenic mice on a mixed background, mutants on a C57BL/6J background may experience an increased incidence of reduced offspring size and in utero or neonatal mortality. The majority of the lethality occurs postnatally with a 10% loss of hemizygous mice by 2 weeks of age. Pup survival is increased by delaying weaning. Pups that survive will breed. Due to postnatal mortality, mice from this strain will not be shipped before 8 weeks of age.

Note: This transgenic allele is also available from The Jackson Laboratory on a STOCK background (Stock No. 003920), which are not subject to problems with postnatal mortality in a hemizygous state; homozygotes are not viable.

[Additional Breeding and Husbandry Support](#)

Citation

When using the ZEG mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #004178 in your Materials and Methods section.

[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.

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/GFP)21Lbe	\$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.

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.

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suggest ordering and performing tests on a small number of mice to determine suitability for your particular project.

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Licensing Information

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By Allele

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