

B6.FVB-Tg(CAG-EGFP,-ALPP)2.6Ggc/J

Stock No: 008226

 Congenic, Transgenic

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

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will have the STOP-polyA sequence deleted in the *cre*-expressing tissue(s), permitting dicistronic expression of human Placental Alkaline Phosphatase (PLAP or *ALPP*) and farnesylated Enhanced Green Fluorescent Protein (eGFP-F; optimized to target expression to the cytoplasmic side of the plasma membrane). These piGAP transgenic reporter mice allow Cre-inducible, eGFP-F and hPLAP expression in multiple cell and tissue types.

Donating Investigator

IMR Colony, The Jackson Laboratory

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(CAG-EGFP,-ALPP)2.6Ggc

Alele 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

V I E W P R I C E L I S T

Details

Detailed Description

Mice harboring the piGAP transgene are viable and fertile, with expression of the eGFP-F-IRES-hPLAP dicistronic gene blocked by an upstream *loxP*-flanked STOP-polyA sequence. When bred to mice that express Cre recombinase, the resulting offspring will have the STOP-polyA sequence deleted in the *cre*-expressing tissue(s), permitting dicistronic expression of eGFP-F-IRES-hPLAP. When transgene expression is induced in neurons, human Placental Alkaline Phosphatase (PLAP or *ALPP*) outlines axonal and dendritic projections and can be visualized by a simple histochemical reaction in fixed cells. Likewise, *in vivo* fluorescence of farnesylated Enhanced Green Fluorescent Protein (eGFP-F; optimized to target expression to the cytoplasmic side of the plasma membrane) labels axons, and dendrites throughout their length. Because both proteins localize alongside the neuronal surface, concomitant detection of cell body, neurites, and presynaptic and postsynaptic sites may be observed in the same neuron. These piGAP transgenic reporter mice allow Cre-inducible, eGFP-F and hPLAP expression in multiple cell and tissue types.

For example, when bred to mice expressing Cre recombinase in neural tissues (such as Nestin-Cre (see Stock No. [003771](#)) or CamKIIa-Cre (see Stock No. [005359](#))), the resulting offspring may be useful in studying axon guidance, circuit formation, and synaptic plasticity.

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 of piGAP mice on a C57BL/6J genetic background 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\(CAG-EGFP,-ALPP\)2.6Ggc](#)

[- 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

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Mutant mice were bred to C57BL/6J mice to generate this congenic strain. When maintaining the live congenic colony, hemizygous mice may be bred to wildtype siblings or to C57BL/6J inbred mice. The donating investigator reports that attempts to generate homozygous mice (on the FVB/NCrl genetic background) were not successful and suggests that homozygosity may be lethal at some embryonic stage.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6.FVB-Tg(CAG-EGFP,-ALPP)2.6Ggc/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #008226 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.

Domestic | International

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Hemizygous or non carrier for Tg(CAG-EGFP, -ALPP)2.6Ggc	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.FVB-Tg(CAG-EGFP -ALPP)2.6Ggc/J Frozen Embryo	\$2595.00
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THE JACKSON LABORATORY'S GENOTYPE PROMISE

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.

🔍 Terms Of Use

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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

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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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