

## B6.Cg-Tg(CAG-DsRed,-EGFP)5Gae/J

Stock No: 008705

 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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prior to Cre recombinase exposure, and green fluorescence following *cre*-mediated recombination in a pattern determined by *cre* expression, and should provide a versatile tool for analyzing complex cellular relationships in a wide variety of tissues.

### Donating Investigator

IMR Colony, The Jackson Laboratory

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## GENETIC OVERVIEW

Genetic Background

Generation

### Tg(CAG-DsRed,-EGFP)5Gae

#### Allele Type

Transgenic (Reporter)

VIEW GENETICS

## RESEARCH APPLICATIONS

Neurobiology Research

Research Tools

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 IRG transgenic mice are viable and fertile, with widespread expression of a *loxP*-flanked optimized red fluorescent protein variant (DsRed-Express) directed to embryonic and adult tissues by the CAG promoter prior to exposure to Cre recombinase. When bred to *cre*-expressing mice, the resulting offspring have the DsRed-Express cassette deleted in the *cre*-expressing tissue(s), allowing expression of the enhanced green fluorescent protein (EGFP) cassette located just downstream. These IRG transgenic mice are a double-fluorescent, Cre-reporter strain; with widespread expression of red fluorescence prior to Cre recombinase exposure, and green fluorescence following *cre*-mediated recombination in a pattern determined by *cre* expression, and should provide a versatile tool for analyzing complex cellular relationships in a wide variety of tissues.

*For example, when using IRG transgenic mice along with Nestin-Cre mice (see Stock No. [003771](#)), red and green native fluorescence can be imaged simultaneously in thick tissue sections by confocal microscopy; thus allowing for analysis of complex reconstructions suitable for studying neuronal morphologies as well as neurovascular interactions in brain.*

*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-DsRed,-EGFP)5Gae

## ⊖ Disease/Phenotype

[+ Disease Terms](#)

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[+ Research Areas By Phenotype](#)

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[+ Mammalian Phenotype Terms by Genotype](#)

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[+ References](#)

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## ⊖ 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

QPCR: [Generic DsRed](#)

Probe: [Generic DsRed Probe](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

Mutant mice were bred to C57BL/6J mice for many generations to establish this congenic strain. When maintaining the live congenic colony, hemizygous mice are bred with noncarrier (wildtype) siblings or to C57BL/6J inbred mice.

[Additional Breeding and Husbandry Support](#)

### Citation

When using the B6.Cg-Tg(CAG-DsRed,-EGFP)5Gae/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #008705 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



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-DsRed,-EGFP)5Gae	\$2,854.50

### RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.Cg-Tg(CAG-DsRed-EGFP)5Gae/J	\$2595.00
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## 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.

## 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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## LICENSING INFORMATION

Phone: 207-288-6470  
Email: [TechTran@jax.org](mailto:TechTran@jax.org)

Related Strains

- All
- By Allele
- By Gene
- By Collection



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