

B6;129-*Igs1*^{tm5(CAG-Bgeo,-Mito-GFP)Nat}/J

Stock No: **018140**

 Targeted Mutation

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

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recombination, the NLS-beta-geo coding region is excised and GFP-V5 is specifically expressed in mitochondria.

Donating Investigator

Jeremy Nathans, Johns Hopkins University

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GENETIC OVERVIEW

Genetic Background

Generation

Igs1^{tm5(CAG-Bgeo,-Mito-GFP)Nat}

Alele Type	Gene Symbol	Gene Name
Targeted (Conditional ready (e.g. floxed), Reporter, No functional change)	<i>Igs1</i>	intergenic site 1

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

This *Ubb* (ubiquitin B) knock-in strain gives constitutive expression of a nuclear localized beta-galactosidase/neomycin resistance protein reporter (NLS-beta-geo) in the absence of cre-mediated recombination. Following cre-mediated recombination, the NLS-beta-geo coding region is excised and a downstream open reading frame is expressed. The downstream open reading frame codes for GFP that is specifically localized to mitochondria by using an N-terminal 25 amino acid targeting signal derived from mouse cytochrome c oxidase, subunit VIIIa (*Cox8a*). A C-terminal V5 epitope tag is also fused to GFP. Upon cre-mediated recombination in various cell types, moderate to strong native GFP fluorescence is detected specifically in mitochondria both proximal and distal to the cell body. GFP expression is especially robust in endothelial cells residing in the brain and retina. Anti-V5 immunohistochemistry has also demonstrated function of the V5 epitope tag fused to the C-terminus GFP.

Development

Expression Data

Genetics

Igs1^{tm5}(CAG-Bgeo,-Mito-GFP)Nat

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

- 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

Separated PCR:[lis1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Heterozygotes are viable and fertile, but homozygotes are unhealthy.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6;129-*lis1*^{tm5(CAG-Bgeo,-Mito-GFP)Nat}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #018140 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	Heterozygous or wildtype for <i>lis1</i> <tm5(CAG-Bgeo,-Cox8a/GFP/V5)Nat>	\$2,854.50

RELATED PRODUCTS AND SERVICES

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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.

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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

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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