

B6.Cg-Tg(Thy1-CFP/COX8A)S2Lich/J

Stock No: **007967** | Thy1-CFP-MitoS

 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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Thy1, promoter. CFP is specifically localized to the mitochondria by a human cytochrome c oxidase, subunit 8A (ubiquitous), targeting signal fused to the N-terminus. This mutant mouse strain may be useful in studies of mitochondrial transport in adult motor neurons.

Donating Investigator

IMR Colony, The Jackson Laboratory

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(Thy1-CFP/COX8A)S2Lich

Alele Type

Transgenic (Reporter)

VIEW GENETICS

RESEARCH APPLICATIONS

Cell Biology Research

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

These transgenic mice express Cyan Fluorescent Protein (CFP) under the control of the mouse thymus cell antigen 1, theta, *Thy1*, promoter. CFP is specifically localized to the mitochondria by a human cytochrome c oxidase, subunit 8A (ubiquitous), targeting signal fused to the N-terminus. Fluorescence is detected in many neuronal populations including retinal ganglion cells, bipolar cells, amacrine cell and photoreceptors. Neuronal, mitochondrial and neuromuscular junction morphology appears normal in transgenic mice. Axonal mitochondrial density is similar to wildtype. Homozygotes are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. This mutant mouse strain may be useful in studies of mitochondrial transport in adult motor neurons.

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. This is the case for the strain above. 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(Thy1-CFP/COX8A)S2Lich

⊖ 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

Standard PCR:[Tg\(Thy1-CFP/COX8A\)C1Lich](#)

Probe:[Fluorescent Proteins \(Generic GFP\)](#)

Standard PCR:[Fluorescent Proteins \(Generic GFP\)](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these mice are bred as hemizygotes.

[Additional Breeding and Husbandry Support](#)

Citation

When using the Thy1-CFP-MitoS mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #007967 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



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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(Thy1-CFP/COX8A)S2Lich	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.Cg-Tg(Thy1-CFP/COX8A)S2Lich/J	\$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

TERMS OF USE

[General Terms and Conditions](#)

QUESTIONS ABOUT TERMS OF USE

ADDITIONAL USE RESTRICTIONS APPLY

[Use of MICE by companies or for-profit entities requires a license prior to shipping.](#)

LICENSING INFORMATION

☰ Related Strains

- All
- By Allele
- By Gene
- By Collection




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