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

Stock No: 007967 | Thy1-CFP-MitoS

- Congenic, Transgenic

CRYO RECOVERY

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

Also Known As: Thy1-CFP-MitoS

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. This mutant mouse strain may be useful in studies of mitochondrial transport in adult motor neurons.

Donating Investigator

IMR Colony, The Jackson Laboratory

READ MORE +

Genetic Background

| Tg(Thy1-CFP/COX8A)S2Lich |

| Allele Type |
| Transgenic (Reporter) |

VIEW GENETICS

Cell Biology Research
Research Tools
Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS
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 Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
MELT: 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 MiceS mouse strain in a publication, please cite the originating article(s) and include JAX stock #007967 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

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

<table>
<thead>
<tr>
<th>Domestic</th>
<th>International</th>
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<table>
<thead>
<tr>
<th>Cryorecovery - Domestic Pricing</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Hemizygous or Non Carrier for Tg(Thy1-CFP/COX8A)S2Lich</td>
<td>$2,595.00</td>
</tr>
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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.
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All

By Allele

By Gene

By Collection

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