

B6;CBA-Tg(Thy1-EGFP)SJrs/NdivJ

Stock No: **011070** | thy1-GFP

 Transgenic

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

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neurobiological studies for fluorescent labeling of a variety of cerebral cortex interneuron subsets.

Donating Investigator

Elly Nedivi, Massachusetts Institute of Technology

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(Thy1-EGFP)SJrs

Alele Type

Transgenic (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 Thy1-GFP transgene are viable and fertile with enhanced green fluorescent protein (EGFP) expression under the control of a modified Thy1 promoter region (containing the sequences required for neuronal expression but lacking the sequences required for expression in non-neural cells). These *thy1*-GFP-S mice (derived from founder line S) have EGFP expression in sparse subsets of neurons within specific populations; providing a bright, vital Golgi-like stain. *Thy1*-GFP-S mice show EGFP labeling in the superficial layers of the neocortex, including most/all interneuron subtypes, with pyramidal/interneuron ratios of approximately 4:1 that match the distribution in the non-labeled population. While this is similar to *Thy1*-GFPM mice (Stock No. [007788](#)), the labeling distribution for line S is different from line M. In addition, less than 10% of cerebellum mossy fibers show EGFP labeling and no EGFP expression is observed in dorsal root ganglion of *thy1*-GFP-S mice. Direct EGFP fluorescence is bright enough for *in vivo* two-photon microscopy. These *thy1*-GFP-S transgenic mice may be useful in neurobiological studies for bright, yet sparse, fluorescent labeling of a variety of cerebral cortex interneuron subsets.

This strain is one of many created by the Sanes/Lichtman lab with specific/differential fluorescent protein expression in neural tissues (see Stock No. [003709](#), Stock No. [003710](#), Stock No. [003782](#), Stock No. [005630](#), Stock No. [007788](#), and Stock No. [007919](#),) or multiple fluorescent protein expression in neural tissues (see the Brainbow mice; Stock No. [007901](#), Stock No. [007910](#), Stock No. [007911](#), Stock No. [007921](#)).

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Thy1-EGFP)SJrs

– 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\(Thy1-YFP\)HJrs-alternate2](#)
[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, hemizygous mice may be bred to wildtype (noncarrier) siblings or C57BL/6J inbred mice (Stock No. [000664](#)).

[Additional Breeding and Husbandry Support](#)

Citation

When using the thy1-GFP mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #011070 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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CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Hemizygous for Tg(Thy1-EGFP)SJrs	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6;CBA-Tg(Thy1-EGFP)SJrs/NdivJ	\$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.

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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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