

## STOCK Tg(Thy1-Brainbow3.1)18Jrs/J

Stock No: 021226

 Transgenic

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

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### Donating Investigator

Joshua R Sanes, Harvard University

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## GENETIC OVERVIEW

Genetic Background

Generation

### Tg(Thy1-Brainbow3.1)18Jrs

#### 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

These Thy1-Brainbow 3.1 (line 18) transgenic mice are viable and fertile as hemizygotes. The mice possess multiple fluorescent protein sequences uniquely flanked with pairs of incompatible *Lox* recognition sites alternated to create mutually exclusive recombination events; allowing stochastic expression of multiple fluorescent proteins from a single transgene. Prior to Cre-mediated recombination, no fluorescent protein is expressed. When bred to Cre recombinase expressing mice, the resulting offspring can have one of four expression outcomes for each transgene in each cell of the cre expressing tissue(s): a non-fluorescent nuclear-localized protein that can be immunostained (no recombination), eGFP, mOrange2 or mKate2. Farnesylation sequences tethers fluorescent proteins to the membrane, allowing clear labeling of fine processes. Integration of tandem transgene copies yields combinatorial fluorescent protein expression in each cell, and thus many possible cell colors, providing a way to distinguish adjacent neurons and visualize other cellular interactions. Fluorescence is detected in neurons in mid-brain, hind-brain neurons, cortex, cerebellum and retina. Transgene expression in the spinal cord and peripheral nervous system was not tested. The Donating Investigator has not attempted to make the strain homozygous to date (March 2013).

### Development

### Expression Data

### Control Suggestions

### Selected References

## Genetics

### Tg(Thy1-Brainbow3.1)18Jrs

## 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

Standard PCR: [Generic mKate2](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

When maintaining a live colony, hemizygous mice are bred with wildtype (noncarrier) mice from the colony or with C57BL/6J inbred mice (Stock No. [000664](#)). The Donating Investigator has not attempted to make the strain homozygous to date (March 2013).

[Additional Breeding and Husbandry Support](#)

### Citation

When using the STOCK Tg(Thy1-Brainbow3.1)18Jrs/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #021226 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](#)*

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## [- 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

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## CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Hemizygous or non carrier for Tg(Thy1-Brainbow3.1)18Jrs	\$2,854.50

## RELATED PRODUCTS AND SERVICES

<a href="#">Frozen Mouse Embryo</a>	STOCK Tg(Thy1-Brainbow3.1)18Jrs/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.

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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

### ADDITIONAL USE RESTRICTIONS APPLY

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

### 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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