

STOCK *Olig2*<sup>tm2(TVA,cre)Rth</sup> /J

Stock No: 011103

 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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### Donating Investigator

David H. Rowitch, University of California, San Francisco

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## GENETIC OVERVIEW

Genetic Background

Generation

*Olig2*<sup>tm2(TVA,cre)Rth</sup>

**Alele Type**

Targeted (Recombinase-expressing)

**Gene Symbol**

*Olig2*

**Gene Name**

oligodendrocyte transcription factor 2

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

In this targeted mutation strain, the mouse *Olig2* (oligodendrocyte transcription factor 2) locus drives expression of cre and tva (an avian-specific retroviral receptor) in *Olig2*-expressing cells of the central nervous system (CNS). When bred with mice containing a sequence flanked by similarly oriented loxP sites, flanked sequences will be deleted in the Cre-expressing tissues of the offspring. Injection of avian retrovirus (e.g., RCAS) can specifically infect *Olig2*-tva-expressing cells permitting cell labeling with reporters or forced expression of genes. This strain may be useful in studies of neurodevelopment. Homozygotes are not viable due to the disruption of *Olig2* function.

### Development

### Expression Data

### Control Suggestions

### Selected References

## Genetics

### *Olig2*<sup>tm2(TVA,cre)Rth</sup>

## Disease/Phenotype

### Disease Terms

+ Research Areas By Phenotype

+ Mammalian Phenotype Terms by Genotype

+ References

## - Technical Support

### CONTACT TECHNICAL SUPPORT

#### Genotyping Protocols

Standard PCR: [Olig2-Alternate 2](#)

[Genotyping resources and troubleshooting](#)

#### Breeding Considerations

When maintained as a live colony, heterozygotes may be bred. Homozygotes are not viable.

[Additional Breeding and Husbandry Support](#)

#### Citation

When using the STOCK *Olig2<sup>tm2(TVA,cre)Rth</sup>/J* mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #011103 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

## RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

STOCK Olig2&lt;tm2(TVA cre)Rth&gt;/J

\$2595.00

## 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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## TERMS OF USE

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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

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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# TOMORROW'S CURES



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