

STOCK Tg(Myh6*/tetO-GCaMP2)1Mik/J

Stock No: 012477

 Transgenic

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

PLACE ORDER

[Email](#) [Download PDF](#) [Help](#)

which limits GCaMP2 expression in heart. These mice may be useful for measurement of myocyte Ca^{2+} transients in the beating heart of adult and embryonic mice in vivo and in vitro.

Donating Investigator

Michael I Kotlikoff, Cornell University

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

Tg(Myh6*/tetO-GCaMP2)1Mik

Alele Type

Transgenic (Inducible, Inserted expressed sequence)

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

This inducible calcium sensor transgene contains a conditional cardiac (cc) expressing eGFP-calmodulin fusion protein, *GCaMP2*. Mice homozygous for the *ccGCaMP2* transgene are viable and fertile, normal in size and do not display any gross physical or behavioral abnormalities. Expression of *ccGCaMP2* is regulated by a tetracycline operator (*tetO*), driven by an enhanced *Myh6* promoter which limits *GCaMP2* expression in heart. When bred with transgenic mice expressing a tetracycline transactivator (tTA) or reverse transactivator protein, cardiac-specific expression of *GCaMP2* can be controlled by withdrawal or administration of tetracycline or a tetracycline analog, doxycycline, in the double mutant offspring. These mice may be useful for measurement of myocyte Ca^{2+} transients in the beating heart of adult and embryonic mice in vivo and in vitro.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Myh6*/tetO-GCaMP2)1Mik

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\(Myh6*/tetO-GCaMP2\)1Mik](#)
[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, C57BL/6J females may be bred with heterozygous or homozygous males. The donating investigator reports some problems using homozygous females for breeding.

[Additional Breeding and Husbandry Support](#)

Citation

When using the STOCK Tg(Myh6*/tetO-GCaMP2)1Mik/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #012477 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
Cryo Recovery	Hemizygous or Non carrier for Tg(Myh6*/tetO-GCaMP2)1Mik/	\$2,854.50

RELATED PRODUCTS AND SERVICES		
Frozen Mouse Embryo	STOCK Tg(Myh6*/tetO-GCaMP2)1Mik/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.

Terms Of Use

TERMS OF USE

[General Terms and Conditions](#)

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

Related Strains

All

By Allele

By Gene

By Collection



DO YOU NEED BALB/c MICE?

Rely on JAX to provide the models you need, when you need them.

LEARN MORE



CONTACT



DONATE



SUBSCRIBE

JAX HOME CAREERS LEGAL INFORMATION

RESEARCH CENTERS MOUSE GENOME INFORMATICS

MOUSE PHENOME DATABASE

Leading the search for

TOMORROW'S CURES



©2021 THE JACKSON LABORATORY

Choose other country or region 

^ E E E D B

Did you find what you were looking for?

Yes No