

STOCK Tg(Myh6/tetO-Gata4)1Jmol/J

Stock No: 016572

 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

Jeffery D. Molkentin, Cincinnati Children's Hospital

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(Myh6/tetO-Gata4)1Jmol

Alele Type

Transgenic (Inducible, Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Cardiovascular Research

Developmental Biology Research

Internal/Organ 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 *Gata4* transgenic mice contain GATA binding protein 4 (*Gata4*) sequence regulated by a tetracycline operator (*tetO*), driven by myosin, heavy polypeptide 6, cardiac muscle, alpha (*Myh6* or α -MHC) promoter/enhancer elements. Hemizygotes are viable, fertile, and normal in size. α -MHC limits overexpression of *Gata4* to the heart. GATA4 is a zinc-finger-containing transcription factor expressed in cardiomyocytes and has a role in regulating the expression of genes involved in cardiac differentiation. When mated to a mutant strain expressing tetracycline-controlled transactivator protein (*tTA*), expression of GATA4 protein may be controlled by the administration of tetracycline or its analog doxycycline in bi-allelic offspring. For instance, when bred to mice expressing *tTA* driven by the α -MHC promoter, double transgenic animals exhibit an increase in myocardial capillary densities, coronary flow reserve, and perfusion-dependant cardiac contractility.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Myh6/tetO-Gata4)1Jmol

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

Separated PCR:[Tg\(Gata4cDNA\)](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, hemizygous mice may be bred to wildtype (non-carrier) mice from the colony or to FVB/NJ inbred mice (Stock No. [001800](#)).

[Additional Breeding and Husbandry Support](#)

Citation

When using the STOCK Tg(Myh6/tetO-Gata4)1Jmol/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #016572 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-Gata4)1Jmol	\$2,854.50

RELATED PRODUCTS AND SERVICES		
Frozen Mouse Embryo	STOCK Tg(Myh6/tetO-Gata4)1Jmol/J Frozen Embryo	\$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

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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



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