

FVB/N-Tg(Myh6-Cast)1Gwd/J

Stock No: 012461

 Coisogenic, Transgenic

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

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hearts, and the contribution of endogenous calpains to myocardial protein turnover.

Donating Investigator

Gerald Dorn, Washington University School of Medicine

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(Myh6-Cast)1Gwd

Alele Type

Transgenic (Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Developmental Biology Research

Internal/Organ Research

Cardiovascular 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 hemizygous for the *Myh6-Cast* allele are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. Expression of *Cast* is regulated by an α -myosin heavy chain (*Myh6*) promoter, which results in the overexpression of calpastatin, a highly specific global inhibitor of calpain 1 and calpain 2, in the heart. Overexpression of calpastatin causes diminished ubiquitination of myocardial proteins resulting in a progressive dilated cardiomyopathy characterized by accumulation of intracellular protein aggregates, formation of autophagosomes, and degeneration of sarcomeres. These *Myh6-Cast* mice may be useful for assessing the consequences of cardiomyocyte-specific calpain inhibition in normal, ischemic, and failing hearts, and the contribution of endogenous calpains to myocardial protein turnover.

+ Development

+ Expression Data

+ Control Suggestions

+ Selected References

- Genetics

+ Tg(Myh6-Cast)1Gwd

- 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

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, transgenic mice may be bred to wildtype (noncarrier) mice from the colony or with FVB/NJ inbred mice (Stock No. [001800](#)). The DI states that the transgene causes cardiomyopathy and the homozygous phenotype may not be viable.

[Additional Breeding and Husbandry Support](#)

Citation

When using the FVB/N-Tg(Myh6-Cast)1Gwd/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #012461 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-Cast)1Gwd	\$2,854.50

RELATED PRODUCTS AND SERVICES		
Frozen Mouse Embryo	FVB/N-Tg(Myh6-Cast)1Gwd/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.

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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

LICENSING INFORMATION

Phone: 207-288-6470
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Related Strains

All

By Allele

By Gene

By Collection



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