

C57BL/6J-Myh10^{b2b2437Clo} /JStock No: **022647** **Chemically Induced Mutation, Coisogenic**

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

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The Jackson Laboratory cannot guarantee that cryorecovery of G1 sperm from the Bench to Bassinet (B2B) collection will be successful or that the anticipated phenotype or genotype will be obtained. The cryorecovery fee for this effort will not be refunded or prorated if the recovery is unsuccessful or is in any way unsatisfactory. Genotyping will be the responsibility of the Purchaser.

Donating Investigator

Cecilia Lo, Univ of Pittsburgh School of Medicine

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GENETIC OVERVIEW

Genetic Background**Generation***Myh10^{b2b2437Clo}***Allele Type**

Chemically induced (ENU)

Gene Symbol*Myh10***Gene Name**

myosin, heavy polypeptide 10, non-muscle

[VIEW GENETICS](#)

RESEARCH APPLICATIONS

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

This T-to-C point mutation at position 5503 of the *Myh10* (myosin, heavy polypeptide 10, non-muscle) cDNA was identified in an ENU screen for recessive cardiovascular development phenotypes in Dr. Cecilia Lo's laboratory, NHLBI Cardiovascular Development Consortium (CvDC). It was recovered from G1 sperm and associated with the phenotype described here. Because G1 sperm were cryopreserved, additional incidental mutations are also segregating in this strain.

Homozygotes demonstrate overriding aorta/double outlet right ventricle (DORV) with ventricular septal defect (VSD), atrioventricular septal defect (AVSD), and ventricular myocardial non-compaction. Exencephaly, cleft lip/facial cleft, and micrognathia are also seen.

+ Development

+ Control Suggestions

+ Selected References

– Genetics

+ *Myh10*^{b2b2437Clo}

– 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

Heterozygotes are both viable and fertile.

[Additional Breeding and Husbandry Support](#)

Citation

When using the C57BL/6J-Myh10^{b2b2437Clo}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #022647 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	The Jackson Laboratory cannot guarantee that cryorecovery of G1 sperm from the Bench to Bassinet (B2B) collection will be successful or that the anticipated phenotype or genotype will be obtained. The cryorecovery fee for this effort will not be refunded or prorated if the recovery is unsuccessful or is in any way unsatisfactory. Genotyping will be the responsibility of the Purchaser	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	C57BL/6J-Myh10<b2b2437Clo>/J Frozen Embryo	\$2595.00
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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

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 Email: TechTran@jax.org

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