

## C57BL/6-Tg(Myh6-DsRed1\*/COX8A)40830Rag/J

Stock No: **028715** | alpha-MHC-MitoTimer

 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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### Donating Investigator

Roberta Gottlieb, Cedars-Sinai Heart Institute

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## GENETIC OVERVIEW

Genetic Background

Generation

### Tg(Myh6-DsRed1\*/COX8A)40830Rag

#### Alele Type

Transgenic (Reporter)

VIEW GENETICS

## RESEARCH APPLICATIONS

Research Tools

Cardiovascular Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

333.51 Domestic price for breeder pair

\$2,854.50 Domestic price Cryo Recovery

V I E W P R I C E L I S T

## Details

### Detailed Description

These transgenic mice express the mutant DsRed2 fluorescent protein fused with mitochondrial targeting sequence, MitoTimer, under the control of the mouse alpha myosin heavy chain promoter. As the MitoTimer DsRed fluorescent protein matures over 48 hours the fluorescence emitted changes from green to red. The mitochondrial targeting sequence from human, *COX8A*, cytochrome c oxidase subunit 8A, is fused to the 5' end of the Timer DsRed2. Transgene expression is detected predominantly in the heart ventricles, with lower expression in the atria, which is expected due to the lower number of mitochondria in the atrial cardiomyocytes. Mitochondrial turnover can be monitored by the red to green ratio of fluorescence. Mitochondria labeled with green fluorescence are actively synthesizing new proteins and replicating mtDNA. Cardiomyocytes isolated from younger mice (3 weeks of age) have a low red:green ration when compared to cells from older mice (16 weeks of age).

Heterozygotes are viable and fertile. Homozygous viability/fertility has not been tested (February 2017).

### Development

### Expression Data

### Control Suggestions

### Selected References

## Genetics

### Tg(Myh6-DsRed1\*/COX8A)40830Rag

## 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\(Myh6-DsRed1\\*/COX8A\)40830Rag Alternate1](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

When maintaining a live colony, hemizygous mice may be bred together, to wildtype siblings, or to C57BL/6J inbred mice (Stock No. [000664](#)). Hemizygotes are viable and fertile. Homozygous viability/fertility has not been tested (February 2017).

[Additional Breeding and Husbandry Support](#)

#### Mating System

Noncarrier x Hemizygote

Hemizygote x Noncarrier

#### Citation

When using the alpha-MHC-MitoTimer mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #028715 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

### Breeder Pair

SEX

GENOTYPE

PRICE

Female

Hemizygous for Tg(Myh6-DsRed1\*/COX8A)40830Rag

\$333.51

Male	Noncarrier	
Female	Noncarrier	\$333.51
Male	Hemizygous for Tg(Myh6-DsRed1*/COX8A)40830Rag	

Cryorecovery - Domestic Pricing		
SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Hemizygous or wildtype for Tg(Myh6-DsRed1*/COX8A)40830Rag	\$2,854.50

Related Products and Services		
<a href="#">Frozen Mouse Embryo</a>	C57BL/6-Tg(Myh6-DsRed1*/COX8A)40830Rag/J Frozen Embryo	\$2595.00

## Payment Terms and Conditions

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## 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

## Licensing Information

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