The Jackson Laboratory

# STOCK *Myf5* $^{tm1Pas}$ /J

Stock No: **018626**

Targeted Mutation

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

PLACE ORDER

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myogenesis and neurogenesis.

## Donating Investigator

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Pascal Stuelsatz, University of Washington

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## GENETIC OVERVIEW

| Genetic Background | Generation |
|---|---|

### *Myf5*$^{tm1Pas}$

| Allele Type | Gene Symbol | Gene Name |
|---|---|---|
| Targeted (Reporter) | *Myf5* | myogenic factor 5 |

VIEW GENETICS

## RESEARCH APPLICATIONS

Research Tools
Developmental Biology Research
Neurobiology Research

VIEW ALL RESEARCH APPLICATIO

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

## Details

### Detailed Description

*Myf5*, myogenic factor 5, is a basic Helix-Loop-Helix transcription factor involved in muscle cell differentiation. These mice carry a targeted mutation in which a beta-galactosidase gene (*lacZ*) with a nuclear localization signal disrupts the bHLH domain of the protein. Beta galactosidase activity mimics the endogenous expression pattern of the *Myf5* gene, and is detected as early as embryonic day 9 in the caudal myotomes and embryonic day 8 in newly differentiated neurons in the mesencephalon.
Mice that are heterozygous for the targeted mutation are viable and fertile. Homozygotes die soon after birth due to respiratory failure. Homozygotes also exhibit delayed myotome formation and truncated ribs. No gene product (mRNA) is detected by *in situ* hybridization analysis of homozygous embryos. Expression of the adjacent *Myf6*, myogenic factor 6, is not detected by RT-PCR of skeletal muscle from homozygotes, or by whole mount *in situ* hybridization of homozygous embryos. This strain serves as a reporter for marking cells in the myogenic lineage and for adult muscle stem (satellite) cells.

### Development

### Expression Data

### Control Suggestions

### Selected References

## Genetics

### *Myf5*$^{tm1Pas}$

## Disease/Phenotype

## Disease Terms

## Research Areas By Phenotype

## Mammalian Phenotype Terms by Genotype

## References

# Technical Support

CONTACT TECHNICAL SUPPORT

### Genotyping Protocols
Separated PCR:Myf5
Separated PCR:Myf5
Genotyping resources and troubleshooting

### Breeding Considerations

When maintaining a live colony, these mice can be bred as heterozygotes. Homozygotes die soon after birth due to respiratory failure.

Additional Breeding and Husbandry Support

### Citation
When using the STOCK *Myf5*$^{tm1Pas}$/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #018626 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 Internatic

Pricing effective for USA, Canada and Mexico shipping destinations

## CRYORECOVERY - DOMESTIC PRICING

| SERVICE/PRODUCT | DESCRIPTION | PRICE |
|---|---|---|
| Cryo Recovery | Heterozygous or Wildtype for Myf5<tm1Pas> | $2,854.50 |

## RELATED PRODUCTS AND SERVICES

| | | |
|---|---|---|
| Frozen Mouse Embryo | STOCK Myf5<tm1Pas>/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

QUESTIONS ABOUT TERMS OF USE

## LICENSING INFORMATION

Phone: 207-288-6470
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# Related Strains

All

By Allele

By Gene

By Collection

Choose other country or region

Did you find what you were looking for?

Yes No