

STOCK *Epas1^{tm1Mcs}* /J

Stock No: **008407** | Hif-2α^{fl}, Hif-2α 2-loxP

 Targeted Mutation

Live mice available in varying quantities. Ask Customer Service for details.

PLACE ORDER

[Email](#) [Download PDF](#) [Help](#)

useful in generating conditional mutations for studies related to erythropoiesis.

Donating Investigator

M. Celeste Simon, University of Pennsylvania

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

?+F21
(2021-03-31 00:00:00)

Epas1^{tm1Mcs}

Alele Type

Targeted (Conditional ready (e.g. floxed), No functional change)

Gene Symbol

Epas1

Gene Name

endothelial PAS domain protein 1

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research
Research Tools

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$278.00 Domestic price for female 4-week

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

Details

Detailed Description

The Hif-2 α 2-loxP allele, also called *Hif-2 α* ^{fl} or *Epas1*^{2lox}, contains loxP sites flanking exon 2 of the endothelial PAS domain protein 1 locus (*Epas1* or Hif-2 α). Homozygous mice are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. When these mutant mice are bred to mice that express Cre recombinase, resulting offspring will have exon deleted in the cre-expressing tissue(s).

For example, when bred to a strain with inducible Cre recombinase expression in cardiac cells (see Stock No. [005657](#) for example), this mutant mouse strain may be useful in studies of erythropoiesis.

When bred to a strain with tamoxifen inducible widespread Cre recombinase expression (see Stock No. [008085](#) for example), this mutant mouse strain may be useful in studies of erythropoiesis.

When bred to a strain expressing inducible Cre recombinase in the osteoblast lineage (Tg(Sp7-tTA,tetO-EGFP/cre)1Amc), see Stock No. [006361](#) for example), this mutant mouse strain may be useful in studies of erythropoiesis.

Development

Control Suggestions

Selected References

Genetics

Epas1^{tm1Mcs}

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:[Epas1](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

When maintaining a live colony, these mice can be bred as homozygotes.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the Hif-2 α ^{fl}, Hif-2 α 2-loxP mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #008407 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX11 \(Maximum\)](#)

[- Pricing & Availability](#)



Live mice available in varying quantities. Ask Customer Service for details.

Available

Domestic **International**

LIVE MOUSE

| AGE | SEX | GENOTYPE | PRICE |
|----------|--------|---------------------------------|----------|
| 4 weeks | Female | Homozygous for $Epas1^{tm1Mcs}$ | \$278.00 |
| | Male | Homozygous for $Epas1^{tm1Mcs}$ | \$278.00 |
| 5 weeks | Female | Homozygous for $Epas1^{tm1Mcs}$ | \$278.00 |
| | Male | Homozygous for $Epas1^{tm1Mcs}$ | \$278.00 |
| 6 weeks | Female | Homozygous for $Epas1^{tm1Mcs}$ | \$278.00 |
| | Male | Homozygous for $Epas1^{tm1Mcs}$ | \$278.00 |
| 7 weeks | Female | Homozygous for $Epas1^{tm1Mcs}$ | \$278.00 |
| | Male | Homozygous for $Epas1^{tm1Mcs}$ | \$278.00 |
| 8 weeks | Female | Homozygous for $Epas1^{tm1Mcs}$ | \$278.00 |
| | Male | Homozygous for $Epas1^{tm1Mcs}$ | \$278.00 |
| 9 weeks | Female | Homozygous for $Epas1^{tm1Mcs}$ | \$278.00 |
| | Male | Homozygous for $Epas1^{tm1Mcs}$ | \$278.00 |
| 10 weeks | Female | Homozygous for $Epas1^{tm1Mcs}$ | \$278.00 |
| | Male | Homozygous for $Epas1^{tm1Mcs}$ | \$278.00 |
| 11 weeks | Female | Homozygous for $Epas1^{tm1Mcs}$ | \$278.00 |
| | Male | Homozygous for $Epas1^{tm1Mcs}$ | \$278.00 |
| 12 weeks | Female | Homozygous for $Epas1^{tm1Mcs}$ | \$278.00 |
| | Male | Homozygous for $Epas1^{tm1Mcs}$ | \$278.00 |

RELATED PRODUCTS AND SERVICES

| | | |
|---------------------|--------------------------|-----------|
| Frozen Mouse Embryo | STOCK $Epas1^{tm1Mcs}/J$ | \$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](#)

Q U E S T I O N S A B O U T T E R M S O F U S E

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





DO YOU NEED BALB/c MICE?

Rely on JAX to provide the models you need, when you need them.

[LEARN MORE](#)



CONTACT



DONATE



SUBSCRIBE

[JAX HOME](#) [CAREERS](#) [LEGAL INFORMATION](#)

[RESEARCH CENTERS](#) [MOUSE GENOME INFORMATICS](#)

[MOUSE PHENOME DATABASE](#)

Leading the search for

TOMORROW'S CURES



©2021 THE JACKSON LABORATORY

Choose other country or region



↑
E E E D B

Did you find what you were looking for?

Yes No