

B6.129P2-*Pdha1*^{tm1Ptl}/J

Stock No: **017443**

 Congenic, Targeted Mutation

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

Mulchand S Patel, SUNY at Buffalo

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GENETIC OVERVIEW

Genetic Background

Generation

Pdha1^{tm1Ptl}

Alele Type

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

Gene Symbol

Pdha1

Gene Name

pyruvate dehydrogenase E1 alpha 1

VIEW GENETICS

RESEARCH APPLICATIONS

Metabolism Research

Diabetes and Obesity Research

Research Tools

Internal/Organ 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

These *Pdha1*^{fllox8} mutant mice possess *loxP* sites flanking exon 8 of the pyruvate dehydrogenase E1 alpha 1 (*Pdha1*) gene. Mice that are homozygous for this allele are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. PDHA1 is catalytic component of the pyruvate dehydrogenase complex (PDC) which is a mitochondrial multi-enzyme complex involved in lipid synthesis, glucose homeostasis, and metabolism of carbohydrates. When these mutant mice are bred to mice that express Cre recombinase, resulting offspring will have exon 8 deleted in *cre*-expressing tissues. For example, when crossed to a strain expressing Cre recombinase in the liver, this mutant mouse strain may be useful for studying lipid metabolism, glucose metabolism, and insulin sensitivity in the liver.

When bred to a strain expressing Cre recombinase in the central and peripheral nervous system (see Stock No. [003771](#) for example), this mutant mouse strain may be useful in studies of neuronal migration, axonal growth and cell-cell interactions.

When bred to a strain expressing Cre recombinase in the oocyte (see Stock No. [003651](#) for example), this mutant mouse strain may be useful in studies of oogenesis.

When bred to a strain expressing Cre recombinase in skeletal and cardiac muscle (see Stock No. [006475](#) for example), this mutant mouse strain may be useful in studies of cardiac glucose metabolism.

Development

Control Suggestions

Selected References

Genetics

Pdha1^{tm1Pt1}

– 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:[Pdha1 alternative 1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6.129P2-*Pdha1*^{tm1Ptl}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #017443 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

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	X-linked: Heterozygous females and wildtype males for Pdha1<tm1Pt>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.129P2-Pdha1<tm1Pt>/J	\$2595.00
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PAYMENT TERMS AND CONDITIONS

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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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By Gene

By Collection



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