



STOCKd $x^{tm1Macd}$ / J

Stock No: 005701 | Pdx1^{tTA} KI

Targeted Mutation



CRYO RECOVERY

PLACE ORDER

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

Overview

Also Known As: Pdx1^{tTA} KI

These knock-in mice express a transactivator protein (tTA) from the endogenous promoter/enhancer elements of the *Pdx1* gene in the pancreas.

Donating Investigator

Raymond MacDonald, UTSW Medical Center

READ MORE +

GENETIC OVERVIEW

Genetic Background Generation

Pdx1^{tm1Macd}

Allele Type	Gene Symbol	Gene Name
Targeted (Transactivator)	<i>Pdx1</i>	pancreatic and duodenal homeobox 1

V I E W G E N E T I C S

RESEARCH APPLICATIONS

Endocrine Deficiency Research
Research Tools
Metabolism Research

V I E W A L L R E S E A R C H A P P L I C A T I O N S

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

Mice homozygous for the targeted mutation fail to develop a pancreas. Heterozygous mice have normal pancreas development but partially impaired glucose tolerance in adulthood. The substitution of the targeted gene with tTA_{off} inactivates the endogenous allele and places tTA_{off} expression under the control of the endogenous transcriptional regulatory sequences. tTA expression from the modified locus is identical to that of the normal allele; tTA mRNA is detectable in the pancreas but not in other visceral organs or salivary glands. This mutant may be useful in studies of pancreatic endocrine/exocrine function and diabetes. Heterozygotes also can be bred with transgenic mice that express a target gene under the regulation of a tetracycline-responsive element (TRE; tetO) for pancreas-specific applications.

This mutant was originally designed to be mated with mutant mice with a TRE-controlled transgene coding for the endogenous *Pdx1* (*Ipf1*) gene along with a reporter (EGFP or beta-galactosidase gene, (see Stock No. [005699](#) and [005728](#) respectively).

+ Development

+ Expression Data

+ Control Suggestions

+ Selected References

- Genetics

+ *Pdx1^{tm1Macd}*

- Disease/Phenotype

+ Disease Terms

+ Research Areas By Genotype

+ Mammalian Phenotype Terms by Genotype

+ References

- Technical Support

C H A T O  F L I N E

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: [Pdx1^{tm1Macd}](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these mice are maintained as heterozygotes.

[Additional Breeding and Husbandry Support](#)

Citation

When using the [Pdx1^{tm1Macd}](#) mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #005701 in your Materials and Methods section.

[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.

Cryorecovery - Domestic Pricing

SERVICE	GENOTYPE	PRICE
Cryo Recovery	Heterozygous or wildtype for Pdx1<tm1Macd>	\$2,854.50

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a [Dedicated Supply](#) for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

Related Products and Services

Frozen Mouse Embryo	STOCK Pdx1<tm1Macd>/J Frozen Embryos	\$2595.00
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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.

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Terms of Use

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Licensing Information

Phone: 207-288-6470

Email: TechTran@jax.org

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