



STOCK Tg(tetO-Ipf1, EGFP)956.6 Mac

Stock No: 005699 | Tg^{Pdx1}

Transgenic



CRYO RECOVERY

PLACE ORDER

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

Also Known As: Tg^{Pdx1}

These Tg^{Pdx1} mice express a transgene containing EGFP and *lpf1* after crossing with a strain expressing tetracycline-transactivator (tTA) under the control of a tissue-specific promoter. Such double mutant mice may be useful in studies of pancreatic endocrine/exocrine function and diabetes.

Donating Investigator

Raymond MacDonald, UTSW Medical Center

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GENETIC OVERVIEW

Genetic Background Generation

Tg(tetO-lpf1,EGFP)956.6Macd

Allele Type

Transgenic (Reporter, Inducible, Inserted expressed sequence)

Gnat2^{cpfl3}

Allele Type

Gene Symbol

Gene Name

Spontaneous

Gnat2

guanine nucleotide binding protein, alpha transducing 2

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Sensorineural Research

Metabolism Research

Endocrine Deficiency Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Important Note

This strain may be homozygous for *Gnat2*^{cpfl3}, cone photoreceptor function loss 3, which affects bright light (photopic) vision.

⊖ Detailed Description

Mice hemizygous for the transgene are viable, fertile, normal in size, and do not display any behavioral abnormalities. At the Jackson Laboratory, no homozygous mice were produced from mating hemizygotes together, suggesting that homozygous transgenic animals die *in utero*. Expression of the bicistronic transgene is under the regulation of a tetracycline promoter element (TRE; tetO). By themselves, these transgenic mice do not express EGFP, but when these mice are mated with a second transgenic strain expressing tetracycline-transactivator (tTA) protein under the control of a tissue-specific promoter, *lpf1* and *EGFP* are highly expressed in the appropriate tissue of bitransgenic offspring.

This mouse was originally designed to be mated to an apapneatic targeted mutant with tTA_{off} in place of the endogenous *lpf1* gene (see Stock No. 005701). The combined mutations allow normal pancreatic development and function until doxycycline treatment renders the double mutant mouse conditionally null for *lpf1* expression. Using these double transgenic mice, pancreatic developmental can be arrested at any stage during embryonic development or in adult mice. Such double mutant mice may be useful in studies of pancreatic endocrine/exocrine function and diabetes. Tg(tetO-*lpf1*,EGFP)956.6Macd transgenic mice also may be bred with other tTA transgenic strains for conditional mutation analysis.

+ Development

+ Expression Data

+ Control Suggestions

+ Selected References

⊖ Genetics

+ Tg(tetO-*lpf1*,EGFP)956.6Macd

+ *Gnat2*^{cpfl3}

⊖ 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: [Tg\(tetO-Ipf1,EGFP\)956.6Macd](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, hemizygous mice are bred to wildtype siblings. When mating hemizygous mice together at The Jackson Laboratory, none of the 48 pups sampled were homozygous, indicating that homozygotes are not viable.

[Additional Breeding and Husbandry Support](#)

Mating System

+/+ sibling x Hemizygote

Citation

When using the Tg(tetO-Ipf1,EGFP)956.6Macd mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #005699 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.

Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

Cryorecovery - Domestic Pricing

SERVICE	GENOTYPE	PRICE
Cryo Recovery	Hemizygous or Non carrier for Tg(tetO-Ipf1,EGFP)956.6Macd	\$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 Tg(tetO-Ipf1 EGFP)956.6Macd/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

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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

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Licensing Information

Phone: 207-288-6470

Email: TechTran@jax.org

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