

B6.Cg-*Pvalb*^{tm3.1(dreo)Hze} /JStock No: **021190** | *Pvalb*-T2A-Dre-D , *Pvalb*-2A-Dre-D 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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elements of the parvalbumin locus. These mice are a Dre-rox tool that allows deletion of *rox*-flanked sequences in *Pvalb*-expressing cells/tissues.

Donating Investigator

Hongkui Zeng, Allen Institute for Brain Science

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GENETIC OVERVIEW

Genetic Background

Generation

Pvalb^{tm3.1(dreo)Hze}

Allele Type

Targeted (Recombinase-expressing)

Gene Symbol

Pvalb

Gene Name

parvalbumin

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

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

Mice heterozygous for the *Pvalb*-T2A-Dre-D (*Pvalb*-2A-Dre-D) allele are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. The *Pvalb*-T2A-Dre-D targeted mutation has a viral 2A oligopeptide (T2A) that mediates ribosomal skipping and a mammalian-optimized D6 site-specific DNA recombinase (DreO recombinase) inserted in-frame at the 3' end of the parvalbumin (*Pvalb*) coding region.

As such, *Pvalb*-T2A-Dre-D mice have both endogenous gene and DreO expression directed to *Pvalb*-expressing cells by the endogenous promoter/enhancer elements of the parvalbumin locus. When *Pvalb*-T2A-Dre-D mice are bred with mice containing *rox*-flanked sequences, DreO-mediated recombination will result in deletion of *rox*-flanked sequences in the *Pvalb*-expressing cells of the double mutant offspring.

Specifically, the donating investigator reports heterozygous mice have a DreO recombinase expression pattern in the brain that is very similar to endogenous *Pvalb* expression (by *in situ* hybridization using a DreO-specific probe). The donating investigator did not examine DreO activity in tissues other than brain, and did not attempt to generate homozygous mice to date (January 2013).

For characterization information, see images at the Allen Institute for Brain Science website ([Pvalb-T2A-Dre images](#)).

Development

Expression Data

Control Suggestions

Selected References

Genetics

Pvalb^{tm3.1(dreo)Hze}

– 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

Separated PCR:[Pvalb-alt1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, heterozygous mice may be bred to wildtype mice from the colony or to C57BL/6J inbred mice (Stock No. [000664](#)). The phenotype of homozygous mice has not yet been determined (January 2013).

[Additional Breeding and Husbandry Support](#)

Citation

When using the Pvalb-T2A-Dre-D , Pvalb-2A-Dre-D mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #021190 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



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

Cryorecovery - Domestic Not-For-Profit & Academic Pricing

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or wildtype for Pvalb<sup>tm3.1(dreo)Hze>	\$2,854.50

Related Products and Services

Frozen Mouse Embryo	B6.Cg-Pvalb<sup>tm3.1(dreo)Hze>/J	\$2595.00
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