

STOCK *Th*^{tm1.1(cre/ERT2)Ddg} / J

Stock No: 025614

 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

David D. Ginty, Harvard Medical School

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GENETIC OVERVIEW

Genetic Background

Generation

Th^{tm1.1(cre/ERT2)Ddg}

Alele Type

Targeted (Recombinase-expressing, Inducible)

Gene Symbol

Th

Gene Name

tyrosine hydroxylase

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Neurobiology 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

Th (tyrosine hydroxylase) encodes an enzyme that catalyzes the rate-limiting step in this synthesis of catecholamines. It converts amino acid L-tyrosine to L-3,4-dihydroxyphenylalanine (L-DOPA), a precursor to the dopamine neurotransmitter.

This strain carries tamoxifen-inducible Cre-ERT2 under the regulatory control of the mouse *Th* promoter and the self-cleaving porcine *Teschovirus* 2A (T2A) bicistronic/multicistronic peptide. When crossed with a strain bearing a loxP-flanked sequence of interest, induced excision of the floxed region by cre is consistent with that of TH in the sympathetic ganglia, dorsal root ganglia and retina.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Th^{tm1.1(cre/ERT2)Ddg}

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:[Th-Alternate 1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Heterozygotes and homozygotes are viable and fertile.

[Additional Breeding and Husbandry Support](#)

Mating System

Heterozygote x Heterozygote

Citation

When using the STOCK *Th^{tm1.1(cre/ERT2)Ddg}/J* mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #025614 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
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/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or wildtype for Th<tm1.1(cre/ERT2)Ddg>	\$2,854.50

RELATED PRODUCTS AND SERVICES		
Frozen Mouse Embryo	STOCK Th<tm1.1(cre/ERT2)Ddg>/J Frozen Embryo	\$2595.00

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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

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[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

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LICENSING INFORMATION

Phone: 207-288-6470
 Email: TechTran@jax.org

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All

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Yes No