

B6.Cg-Tg(CD3E)600Cpt/J

Stock No: 020456

 Congenic, Transgenic

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

Cox Terhorst, Beth Israel Deaconess Medical Center / Harvard Medical School

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(CD3E)600Cpt

Allele Type

Transgenic (Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

V I E W P R I C E L I S T

Details

Detailed Description

tgε600 mice, hemizygous for the human *CD3E* transgene, are viable and fertile, with expression of a wild-type human CD3 antigen, epsilon polypeptide (*CD3E*) gene directed by its endogenous promoter/enhancer. CD3E is one of four CD3 subunits which associate with the T-cell receptor (TCR) to generate activation signals in T cells. This interaction plays a role in coupling antigen recognition to intracellular signal-transduction pathways and is essential in T-cell development. These tgε600 mice express three copies of human CD3E protein in the thymus. They lack natural killer (NK)-cell activity and peripheral T cells, and exhibit a less severe reduction in thymic cellularity than Stock No. [002194](#), which contains 30-35 copies of the transgene.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(CD3E)600Cpt

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

- 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:[Tg\(CD3E\)26Cpt](#)

Standard PCR:[Tg\(CD3E\)26Cpt](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, hemizygous mice may be bred to wildtype (noncarrier) siblings or to C57BL/6J inbred mice (Stock No. [000664](#)).

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6.Cg-Tg(CD3E)600Cpt/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #020456 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	Hemizygous or Non carrier forTg(CD3E)600Cpt	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

B6.Cg-Tg(CD3E)600Cpt/J

\$2595.00

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.

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

TERMS OF USE

[General Terms and Conditions](#)

QUESTIONS ABOUT TERMS OF USE

ADDITIONAL USE RESTRICTIONS APPLY

[Use of MICE by companies or for-profit entities requires a license prior to shipping.](#)

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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