Overview

These tgε600 mice express three copies of human CD3E in the thymus. They may be useful for studying T cell development and activation.

Donating Investigator

Cox Terhorst, Beth Israel Deaconess Medical Center / Harvard Medical School
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.
Genotyping Protocols
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.

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.

Pricing effective for USA, Canada and Mexico shipping destinations.
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**

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<th>GENOTYPE</th>
<th>PRICE</th>
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<tr>
<td>Frozen Mouse Embryo</td>
<td>B6.Cg-Tg(CD3E)600Cpt/J</td>
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Terms of Use
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