

C.129X1-*Foxp3*^{tm3Tch}/J

Stock No: 020654

 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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Donating Investigator

Talal Chatila, Boston Children's Hospital

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GENETIC OVERVIEW

Genetic Background

Generation

Foxp3^{tm3Tch}

Alele Type

Targeted (Reporter,
Null/Knockout)

Gene Symbol

Foxp3

Gene Name

forkhead box P3

VIEW GENETICS

RESEARCH APPLICATIONS

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

Details

Detailed Description

The transcriptional regulator FOXP3 is in the forkhead/winged-helix family and has an important role in T regulatory cells (Tregs) development and function. These mice carry a targeted mutation of the *Foxp3* gene that encodes a nonfunctional fusion protein of *Foxp3* amino acids 1-396 and Enhanced Green Fluorescent Protein sequence. EGFP fluorescence is detected with *Foxp3* expression in CD4+ and CD8+ T cells by flow cytometry and real time PCR. EGFP+ CD4+ T cells lack regulatory function. EGFP+ T cells from female mutant mice exhibit increased apoptosis compared to EGFP- T cells from the same mouse. There is a four fold increase in late apoptotic cells in the EGFP+ CD4+ thymocyte population compared to controls. Male mice carrying this X-linked mutation die within a few weeks after birth (average survival is 20 days), due to aggressive lymphoproliferative autoimmune disease. The phenotype displayed by hemizygous males is similar to the phenotype reported for *Foxp3*^{K276X} hemizygous male mice (see Stock No. [019933](#) and Stock No. [021144](#)). Hemizygous female mice are viable and fertile.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Foxp3^{tm3Tch}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Separated PCR: [Foxp3alternate1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, female mice can be bred as heterozygotes. Male mice carrying this X-linked mutation die within a few weeks after birth, due to aggressive lymphoproliferative and myeloproliferative disease.

[Additional Breeding and Husbandry Support](#)

Citation

When using the C.129X1-*Foxp3*^{tm3Tch}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #020654 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	Females Heterozygous and Males wildtype for <i>Foxp3</i> ^{tm3Tch}	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	C.129X1- <i>Foxp3</i> ^{tm3Tch} /J	\$2595.00
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LICENSING INFORMATION

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Email: TechTran@jax.org

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