

B6.129(Cg)-Foxp3^{tm3(DTR/GFP)Ayr} /J
Stock No: **016958** | Foxp3^{DTR}

◆ Congenic, Targeted Mutation

Live mice available in varying quantities. Ask Customer Service for details.

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ablation.

Donating Investigator

Alexander Rudensky, Memorial Sloan Kettering Cancer Center

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GENETIC OVERVIEW

Genetic Background **Generation**
N8+pN2F1

Foxp3^{tm3(DTR/GFP)Ayr}

Alele Type	Gene Symbol	Gene Name
Targeted (Reporter, Inserted expressed sequence)	<i>Foxp3</i>	forkhead box P3

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools
Immunology, Inflammation and Autoimmunity Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$236.78 Domestic price for female 4-week

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

Details

Detailed Description

Foxp3^{DTR} mutant mice contain an internal ribosome entry site (IRES), a human diphtheria toxin receptor (DTR), and an enhanced green fluorescent protein (EGFP) downstream of the internal stop codon of the forkhead box P3 (*Foxp3*) gene. FOXP3 is a transcription factor required for the development and function of regulatory T (T_{reg}) cells, which are required for suppression of self-reactive T cells and prevention of some autoimmune diseases. In these mice, DTR-EGFP expression is evident in FOXP3⁺ T_{reg} cells. Diphtheria toxin (DT) administration results in ablation of T_{reg} cells in thymus, lymph nodes, and spleen 2 days after injection, with cell numbers rebounding 10-15 days post-injection. Neonates injected with DT daily all die from lymphoproliferative disease, indicated by failure to thrive, lack of mobility, ventral skin lesions, hunched posture, and conjunctivitis, within 27 days of birth. With the same DT treatment, adults exhibit a more rapid development of autoimmune disease and die within 3 weeks. These mice show an increase in CD4⁺ T cell activation, as well as an increase in the number of B cells, macrophages, granulocytes, natural killer, and dendritic cells in the spleen and lymph nodes. Homozygous females and hemizygous males are viable, fertile, and normal in size. These mice may be useful for visualizing and specifically eliminating regulatory T cells, and for studying autoimmunity and immune dysfunction.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Foxp3^{tm3(DTR/GFP)Ayr}

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:[Foxp3 alternate2](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

This mutant allele is located on the X chromosome. When maintaining a live colony, homozygous females may be bred with hemizygous males.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Hemizygote

Citation

When using the $Foxp3^{DTR}$ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #016958 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX27 \(Maximum\)](#)

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LIVE MOUSE

AGE

SEX

GENOTYPE

PRICE

4 weeks

Female

Homozygous for $Foxp3^{tm3(DTR/GFP)Ayr}$

\$236.78

4 weeks	SEX	Hemizygous for Foxp3 ^{tm3(DTR/GFP)Ayr}	\$236.78
5 weeks	Female	Homozygous for Foxp3 ^{tm3(DTR/GFP)Ayr}	\$236.78
5 weeks	Male	Hemizygous for Foxp3 ^{tm3(DTR/GFP)Ayr}	\$236.78
6 weeks	Female	Homozygous for Foxp3 ^{tm3(DTR/GFP)Ayr}	\$236.78
6 weeks	Male	Hemizygous for Foxp3 ^{tm3(DTR/GFP)Ayr}	\$236.78
7 weeks	Female	Homozygous for Foxp3 ^{tm3(DTR/GFP)Ayr}	\$236.78
7 weeks	Male	Hemizygous for Foxp3 ^{tm3(DTR/GFP)Ayr}	\$236.78
8 weeks	Female	Homozygous for Foxp3 ^{tm3(DTR/GFP)Ayr}	\$236.78
8 weeks	Male	Hemizygous for Foxp3 ^{tm3(DTR/GFP)Ayr}	\$236.78

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.129(Cg)-Foxp3<tm3(DTR/GFP)Ayr>/J	\$2595.00
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