Overview

These Foxp3 transgenic mice express Green Fluorescent Protein in Foxp3 T cells.

Donating Investigator

Piotr Kraj, Georgia Regents University

GENETIC OVERVIEW

Genetic Background

Generation

?+pN2F13
(2020-04-13 00:00:00)

Tg(Foxp3-GFP)90Pkraj

Allele Type

Transgenic (Reporter)

RESEARCH APPLICATIONS

Research Tools

BASE PRICE

Starting at:
Details

Detailed Description

These transgenic mice express Green Fluorescent Protein under the control of the mouse Foxp3 (forkhead box P3) promoter. The transgene was designed so that no functional FOXP3 protein is produced from the transgene, to prevent overexpression. Foxp3 expression is detected in Green fluorescent protein positive CD4⁺ lymphocytes by flow cytometry, RT-PCR, and Western blot analysis. Foxp3 expression was not detected in Green fluorescent protein negative CD4⁺ lymphocytes. Flow cytometry reveals the intensity of the Green fluorescent protein fluorescence is proportional to the Foxp3 transcript level, allowing identification of different T_{reg} cell populations by the level of expression of the GFP reporter. The transgene is not located on the X chromosome. The Donating Investigator reports that homozygotes are viable and fertile.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Foxp3-GFP)90Pkraj

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype
Genotyping Protocols
Standard PCR: Tg(Foxp3-GFP)90Pkraj

Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

When maintaining a live colony, hemizygous mice may be bred together, to wildtype siblings, or to C57BL/6J inbred mice (Stock No. 000664). The Donating Investigator reports that homozygotes are viable and fertile.

Additional Breeding and Husbandry Support

Mating System
Noncarrier x Hemizygote
Hemizygote x Noncarrier

Citation
When using the Foxp3$^{\text{GFP+}}$ mouse strain in a publication, please cite the originating article(s) and include JAX stock #023800 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

- AX10 (Standard)

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**Pricing & Availability**

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

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<th>International</th>
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**Live Mouse**

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<th>PRICE</th>
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Related Products and Services

Frozen Mouse Embryo | C57BL/6-Tg(Foxp3-GFP)90Pkraj/J Frozen Embryo | $2595.00

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Terms Of Use

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**Related Strains**

- All
- By Allele
- By Gene
- By Collection