STOCK Tg(Prox1-tdTomato)12Nrud/J

Stock No: 022766 | ProxTom

Coisogenic, Transgenic

AVAILABLE FOR REGISTERING INTEREST

REGISTER INTEREST

Please contact Technical Support for more information

Also Known As: ProxTom

Transgenic mice exhibit brightly fluorescent lymphatic vessels as tdTomato is expressed under the direction of a Prox1 promoter. Fluorescence is also observed in the adult liver, lens, dentate gyrus, neuroendocrine cells of the adrenal medulla, megakaryocytes, and platelets. ProxTom mice are also available on a better breeding, mixed genetic background (Stock No. 018128).

Donating Investigator

Nancy H. Ruddie, Yale University

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GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<td>?+pN12</td>
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Tg(Prox1-tdTomato)12Nrud

Allele Type

Transgenic (Reporter)

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

VIEW ALL RESEARCH APPLICATIONS

Details
Detailed Description

ProxTom transgenic mice express a red fluorescent protein, tdTomato under the direction of a Prox1 promoter. Prox1 encodes a transcription factor (prospero-related homeobox 1) that is necessary for the formation and maintenance of lymphatic vessels. The tdTomato fluorescent protein can be detected in the lymphatic vessels, adult liver, lens, and dentate gyrus. Expression of Prox1-driven tdTomato is also evident in three novel sites including the neuroendocrine cells of the adrenal medulla, megakaryocytes, and platelets. With the insertion of tdTomato upstream of the Prox1 nuclear localization sequence, fluorescence is seen only in the cytoplasms of cells. These mice may be useful in applications involving diseases associated with the lymphatic system including lymphedema, filariasis, transplant rejection, obesity, and tumor metastasis.

ProxTom mice are also available on a better breeding, mixed genetic background (Stock No. 018128).

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Prox1-tdTomato)2Nrud

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

High Resolution Melting: Tg(Prox1-tdTomato)2Nrud
Genotyping resources and troubleshooting

Dietary Information

LabDiet® 5K52 formulation (6% fat)
Breeding Considerations
When maintaining a live colony, hemizygous mice may be bred to wild type (noncarrier) or Stock 000664 - C57BL/6J mice from the colony.

Additional Breeding and Husbandry Support

Mating System
Hemizygous x C57BL/6J (000664)
C57BL/6J (000664) x Hemizygote
Noncarrier x Hemizygote
Hemizygote x Noncarrier

Citation
When using the PemFm mouse strain in a publication, please cite the originating article(s) and include JAX stock #022766 in your Materials and Methods section.

Facility Barrier Level Descriptions

STRAIN INTEREST REGISTRATION
Please fill out the form below to indicate your interest in purchasing this JAX® Mice strain. This information helps us manage the colony build and better meet the broad needs of the research community. Please send any technical questions to Technical Support.

Contact Information
First Name

Last Name

Institution

Phone Number

Email

Interest
Please indicate your approximate levels of interest. You can add another line by selecting “Add More Interest.”

Number of Mice

Frequency

Product

Comment

Frequency...

Products...
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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains

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TOMORROW'S CURES