B6;129S-Tg(Prox1-tdTomato)12Nrud/J

Stock No: 018128 | ProxTom

Transgenic

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.

Donating Investigator

Nancy H. Ruddie, Yale University

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
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<tbody>
<tr>
<td>N2×N13</td>
<td>(2018-05-07 00:00:00)</td>
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Tg(Prox1-tdTomato)12Nrud

Allele Type
Transgenic (Reporter)

RESEARCH APPLICATIONS

Research Tools

VIEW GENETICS

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:
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 cytoplasm 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. Hemizygous females are viable and fertile, but most hemizygous males are nonproductive. These mice are currently maintained by crossing to B6129SF1/J mice (Stock No. 101043) every generation to improve litter sizes.
Genotyping Protocols
Separated PCR: Tg(Prox1-tdTomato)12Nrud
High Resolution Melting: Tg(Prox1-tdTomato)12Nrud
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, hemizygous females may be bred to wild type (noncarrier) males from the colony. Most hemizygous males are nonproductive. It has been the experience of colony managers at The Jackson Laboratory that maintaining this line by backcrossing to B6129SF1/J mice (Stock No. 101043) every generation greatly improves litter size (May 2018).
Additional Breeding and Husbandry Support

Mating System
Hemizygote x F1

Citation
When using the B6Prox1-tomato strain in a publication, please cite the originating article(s) and include JAX stock #018128 in your Materials and Methods section.

Animal Health Reports
AX11 (Maximum)

Pricing & Availability
3–6 week lead time for most orders depending on quantity and age range requested

<table>
<thead>
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<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Hemizygous for Tg(Prox1-tdTomato)12Nrud</td>
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<td>Approx 4-8 weeks</td>
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<td>Noncarrier</td>
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