Endothelial cells are labeled with GFP in this strain and these mice may be useful in studies of vascular development and regeneration.

Donating Investigator

Thomas N. Sato, Nara Institute of Science and Technology

**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>?+pF25</td>
<td>(2020-04-09 00:00:00)</td>
</tr>
</tbody>
</table>

**Tg(TIE2GFP)287Sato**

**Allele Type**

Transgenic (Reporter)

**RESEARCH APPLICATIONS**

- Endocrine Deficiency Research
- Research Tools
- Developmental Biology Research
- Cardiovascular Research
Details

Detailed Description
This strain expresses Green Fluorescent Protein (GFP) under the direction of the endothelial-specific receptor tyrosine kinase (Tek, formerly, Tie2) promoter. Endothelial cells expressing GFP can be visualized via fluorescent microscopy or purified by FACS.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(TIE2GFP)287Sato

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References
Genotyping Protocols
QPCR: humanized GFP/ER fusion qPCR
Genotyping resources and troubleshooting

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

Breeding Considerations

This strain is a good breeder.

Additional Breeding and Husbandry Support
Mating System
Homozygote x homozygote

Citation
When using the STOCK Tg(TIE2GFP)287Sato/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #003658 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

AX10 (Standard)

Pricing & Availability

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

Available

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<td></td>
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<td></td>
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<td>Homozygous for Tg(TIE2GFP)287Sato</td>
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<tr>
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<tr>
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<td>Homozygous for Tg(TIE2GFP)287Sato</td>
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<tr>
<td>10 weeks</td>
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<tr>
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<tr>
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<td>Homozygous for Tg(TIE2GFP)287Sato</td>
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Email: TechTran@jax.org
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