Overview

This transgenic 2.3ColGFP mutant mouse strain expresses Green Fluorescent Protein in osteoblasts and osteocytes and may be used for research purposes.
useful in studies of bone development and osteoblast lineages.

Donating Investigator
David W. Rowe, University of Connecticut Health Center

GENETIC OVERVIEW

Genetic Background

Generation

Tg(Col1a1*2.3-GFP)1Rowe

Allele Type
Transgenic (Reporter)

RESEARCH APPLICATIONS

Research Tools

BASE PRICE
Starting at:

$2,854.50 Domestic price Cryo Recovery

Details

Detailed Description

These transgenic mice express Enhanced Green Fluorescent Protein gene under the control of the 2.3 kb (from the upstream promoter sequence to 22300 bp) rat procollagen, type 1, alpha 1 (Col1a1) promoter. In cultures of bone marrow stromal cells (MSC) isolated from mice 6-8 weeks of age, transgene expression is detected at day 14, before osteocalcin expression is detected, by Northern blot analysis. Fluorescence is detected in developing mineralized bone nodules in cultures of calvarial osteoblast cells isolated from neonates, and in osteocytes throughout adult cortical bone. No fluorescence is detected in dermal fibroblasts, bladder smooth muscle cells, peribronchial connective tissues, or periosteal fibroblasts from bone. Mice hemizygous for the transgenic insert are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities.

Development
Genotyping Protocols
Standard PCR: Tg(Col1a1-GFP)
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, these mice can be bred as hemizygotes. The Donating Investigator has not attempted to make the strain homozygous.

Additional Breeding and Husbandry Support

Mating System
Noncarrier x Hemizygote

Citation
When using the B6.Cg-Tg(Col1a1*2.3-GFP)1Rowe/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #013134 in your Materials and Methods section.

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200
Cryo Recovery

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

Domestic | International

Pricing effective for USA, Canada and Mexico shipping destinations

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<thead>
<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Hemizygous or Non Carrier for Tg(Col1a1*2.3-GFP)1Rowe</td>
<td>$2,854.50</td>
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We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryo recovery to establish a **Dedicated Supply** for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

| RELATED PRODUCTS AND SERVICES |
|-------------------------------|---------------------------------|----------|
| Frozen Mouse Embryo           | B6.Cg-Tg(Col1a1*2.3-GFP)1Rowe/J Frozen Embryo | $2595.00 |

**Payment Terms and Conditions**

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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**Terms Of Use**

Terms of Use

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Email: TechTran@jax.org

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