Overview

A C57BL/6 congenic version of this strain is available as Stock No. 017491.

These transgenic mice express Cre recombinase under the control of the mouse transgelin (smooth muscle protein 22-alpha) promoter. Cre recombinase activity is observed in vascular smooth muscle cells of hepatic and pulmonary arteries. When crossed with a strain containing a loxP site-flanked sequence of interest, Cre-mediated recombination results in deletion of the flanked sequence in vascular smooth muscle cells. This strain represents an effective tool for generating tissue specific-targeted mutants that would be useful in studies of vascular diseases such as atherosclerosis.
Donating Investigator
Dr. Joachim Herz, Univ of Texas Southwest Med Ctr Dallas

GENETIC OVERVIEW

<table>
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<tr>
<th>Genetic Background</th>
<th>Generation</th>
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**Tg(Tagln-cre)1Her**

**Allele Type**
Transgenic (Recombinase-expressing)

RESEARCH APPLICATIONS
Research Tools

BASE PRICE
Starting at:
$2,854.50 Domestic price Cryo Recovery

Details

**Detailed Description**
Mice homozygous for the transgenic insert are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. These transgenic mice express Cre recombinase under the control of the mouse transgelin (smooth muscle protein 22-alpha) promoter. Cre recombinase expression (mRNA) closely patterns endogenous transgelin expression, with the highest levels detected in the aorta, intestine and uterus. Low levels of transcript are detected in all other organs tested, likely reflecting the vascular smooth muscle compartments in these tissues. Cre recombinase activity is observed in vascular smooth muscle cells of hepatic and pulmonary arteries, with no activity detected outside the vascular walls. When crossed with a strain containing a loxP site-flanked sequence of interest, Cre-mediated recombination results in deletion of the flanked sequence in vascular smooth muscle cells. This strain represents an effective tool for generating tissue specific-targeted mutants that would be useful in studies of vascular diseases such as atherosclerosis.

Development
Genotyping Protocols
QPCR: Generic Cre Quantitative PCR
Standard PCR: Generic Cre
Genotyping resources and troubleshooting

Breeding Considerations
The strain is maintained on a mixed background of 129S5/SvEvBrd, C57BL6 and SJL. Expected coat color is black and agouti.

Additional Breeding and Husbandry Support

Mating System
Inbred x Hemizygote
Hemizygote x Inbred

Citation

When using the STOCK Tg(Tal1-cre)1Her/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #004766 in your Materials and Methods section.

Animal Health Reports

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200
Pricing & Availability

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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<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Homozygous for Tg(Tagln-cre)1Her, 1 pair minimum</td>
<td>$2,854.50</td>
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</tbody>
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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.

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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