B6.Cg-Tg(Tagln-cre)1Her/J

Stock No: 017491 | SM22-Cre

Congenic, Transgenic

Available

PLACE ORDER

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

Overview

Also Known As: Sm22aCre, SM22Cre, SM22-Cre

These Tagln-cre (also called Sm22aCre) transgenic mice express Cre recombinase under the control of the mouse smooth muscle protein 22-alpha (or transgelin) promoter. 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

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**GENETIC OVERVIEW**

**Genetic Background**

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**Tg(Tagln-cre)1Her**

**Allele Type**

Transgenic (Recombinase-expressing)

**RESEARCH APPLICATIONS**

**Research Tools**

**BASE PRICE**

Starting at:

- $278.00 Domestic price for female
- $366.51 Domestic price for breeder pair

**Details**

**Detailed Description**

Mice hemizygous for the Tagln-cre (also called Sm22aCre) transgene 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 smooth muscle protein 22-alpha (or transgelin) 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**

**Expression Data**

**Control Suggestions**
Genotyping Protocols
Standard PCR: Generic Cre
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, hemizygous mice may be bred to wildtype (non-carrier) mice from the colony or to C57BL/6J inbred mice (Stock No. 000664).

Additional Breeding and Husbandry Support

Mating System
Noncarrier x Hemizygote
Hemizygote x Noncarrier

Citation
If you use the 5427-Scr mouse strain in a publication, please cite the originating article(s) and include JAX stock #017491 in your Materials and Methods section.

Facility Barrier Level Descriptions
AX12 (Maximum)

Pricing & Availability
Live mice available in varying quantities. Ask Customer Service for details.
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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- All
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- By Gene