C57BL/6-Tg(Car1-cre)5Flt/J

Stock No: 016097

Coisogenic, Transgenic

CRYO RECOVERY

PLACE ORDER

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

Overview

This CAC5 transgenic mouse strain expresses Cre recombinase under the control of the mouse Car1 promoter and may be useful in generating large intestine specific-targeted mutants for colon disease research.

Donating Investigator

James C Fleet, Purdue University
GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td><strong>Tg(Car1-cre)5Ftt</strong></td>
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Allele Type
Transgenic (Recombinase-expressing)

RESEARCH APPLICATIONS
Research Tools

BASE PRICE
Starting at:

$2,595.00 Domestic price Cryo Recovery

Details

Detailed Description
These transgenic mice express Cre recombinase under the control of the mouse Car1, carbonic anhydrase 1, promoter. Transgenic transcript is detected in the tissues of the large intestine (cecum, proximal and distal colon) by RT-PCR. Low levels of transcript are detected in the liver, and no transgene transcript is detected in kidney, stomach, bone marrow, prostate, lung, thymus, liver hear, duodenum, jejenum, ileum, pancreas, spleen.
Mosaic recombinase activity is detected as early as 14.5 dpc in approximately 15% of the epithelial cells of the large intestine and is observed in individual crypts from the base to lumen. When crossed with a strain containing loxP site-flanked sequences, cre-mediated recombination results in large intestine epithelial-specific deletion of the flanked sequences in the offspring. Mice that are homozygous for the transgene are viable, normal in size and do not display any gross physical or behavioral abnormalities.

Development

Expression Data
Genotyping Protocols
Probe: Generic Cre Probe
Probe: Gf(rosa)26sor^tm15or Probe
Standard PCR: Generic Cre
Standard PCR: Tg(Car1-cre)5Flt
MELT: Generic Cre Melt Curve Analysis
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, these mice can be bred as homozygotes.
Additional Breeding and Husbandry Support

Citation
When using the C57BL/6J Tg(Car1-cre)5Flt/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #016097 in your Materials and Methods section.

Facility Barrier Level Descriptions
Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

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

### Cryorecovery - Domestic Pricing

<table>
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<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Hemizygous or non carrier for Tg(Car1-cre)5Flt</td>
<td>$2,595.00</td>
</tr>
</tbody>
</table>

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.

Cryorecovery 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 | $2,595.00 per straw or vial |

### 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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The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. **Therefore, we cannot guarantee a strain’s phenotype will meet all expectations.** To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project.

### Terms Of Use

**Terms of Use**

[General Terms and Conditions](#)

**QUESTIONS ABOUT TERMS OF USE**

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Phone: 207-288-6470
Email: TechTran@jax.org
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All

By Allele
All Related Strains

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