C57BL/6-Tg(Pf4-icre)Q3Rsko/J

Stock No: 008535 | Pf4-Cre (or Cxcl4-iCre)

Coisogenic, Transgenic

Repository Live

PLACE ORDER

3–6 week lead time for most orders depending on quantity and age range requested

Overview

Also Known As: Pf4-Cre (or Cxcl4-iCre)

These transgenic mice express a codon-improved Cre recombinase (iCre) under the control of the mouse Pf4 (platelet factor 4), or Cxcl4, promoter. Cre recombinase expression is detected in the majority of megakaryocytes. This strain represents an effective tool for generating megakaryocyte lineage-restricted specific-targeted mutants.

Donating Investigator
GENETIC OVERVIEW

Genetic Background
F7+F15N1F8
(2018-12-10 00:00:00)

Tg(Pf4-icre)Q3Rsko

Allele Type
Transgenic (Recombinase-expressing)

RESEARCH APPLICATIONS
Research Tools

BASE PRICE
Starting at:

$76.22 Domestic price for female
331.22 Domestic price for breeder pair

Details

Detailed Description

These transgenic mice express a codon-improved Cre recombinase (iCre) under the control of the mouse Pf4 (platelet factor 4), or Cxcl4, promoter. Cre recombinase expression is detected in the majority of megakaryocytes. Mice homozygous for the transgenic insert are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. The BAC clone used to generate this strain also contains 4 other genes: Cxcl5, Cxcl7, Cxcl15 and Cxcl13. The additional copy of these chemokine genes in the BAC has no effect on blood count of the mutant mice. This strain represents an effective tool for generating megakaryocyte lineage-restricted specific-targeted mutants.

Development

Expression Data
Genotyping Protocols
High Resolution Melting: Tg(Pf4-cre)Q3Rsko alternate1
Genotyping resources and troubleshooting

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

Breeding Considerations
When maintaining a live colony, heterozygous mice may be bred together, to wildtype mice from the colony or to C57BL/6J inbred mice (Stock No. 000664). Alternatively, homozygous mice may be bred together. Homozygotes are viable and fertile.

Mating System
Noncarrier x Hemizygote

Citation
When using the Pf4-Cre for Ccl4(-Cre) mouse strain in a publication, please cite the originating article(s) and include JAX stock #008335 in your Materials and Methods section.

Facility Barrier Level Descriptions
- FGB29 (Standard)

Pricing & Availability
3–6 week lead time for most orders depending on quantity and age range requested

### Domestic

**Pricing effective for USA, Canada and Mexico shipping destinations**

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Hemizygous for Tg(Pi4-icre)Q3Rsko</td>
<td>$255.00</td>
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<tr>
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### International

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### Related Products and Services

<table>
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<tr>
<th>Product</th>
<th>Price</th>
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<tr>
<td>Frozen Mouse Embryo</td>
<td>$2,595.00 per straw or vial</td>
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Email: TechTran@jax.org

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