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

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

- Coisogenic, Transgenic

**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**

Radek Skoda, University Hospital Basel

**PLACE ORDER**

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

**Genetic Background**
- **Generation**
  - F7xF15N1F8
  - (2018-12-10 00:00:00)

**Tg(Pf4-icre)Q3Rsko**

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

**RESEARCH APPLICATIONS**

**Research Tools**

**BASE PRICE**

**Starting at:**
- **$255.00 Domestic price for female**
- **$333.51 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 Cxc4, 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: Cxc5, Cxc7, Cxc15 and Cxc13. 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**

**Control Suggestions**
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.

Additional Breeding and Husbandry Support

Citation
For use of the Tg(Pf4-cre)Q3Rsko 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
Live mice available in varying quantities. Ask Customer Service for details.
### Live Mouse

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Approx 4-8</td>
<td>Female</td>
<td>Hemizygous for Tg(Pif4-icre)Q3RsKO</td>
<td>$255.00</td>
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<tr>
<td>Approx 4-8</td>
<td>Male</td>
<td>Hemizygous for Tg(Pif4-icre)Q3RsKO</td>
<td>$255.00</td>
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<tr>
<td>Approx 4-8</td>
<td>Female</td>
<td>Noncarrier</td>
<td>$78.51</td>
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### Breeder Pair

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</table>

### Related Products and Services

- **Frozen Mouse Embryo** $2,595.00 per straw or vial

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### 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**

**General Terms and Conditions**

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Email: TechTran@jax.org
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All

By Allele

By Gene

By Collection