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

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

Coisogenic, Transgenic

Also Known As: C57BL/6-Tg(Cxcl4-cre)Q3Rsko/J, Pf4-Cre (or Cxcl4-iCre), C57BL/6-Tg(Pf4-cre)Q3Rsko/J

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

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GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>F7+F15N1F6</td>
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<td>(2018-04-16 00:00:00)</td>
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</table>

Tg(Pf4-icre)Q3Rsko

Allele Type
Transgenic (Recombinase-expressing)

VIEW GENETICS

RESEARCH APPLICATIONS
Research Tools

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE
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 Cxcl3. 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

Selected References

Genetics

Tg(Pf4-icre)Q3Rsko

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
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

Mating System
Noncarrier x Hemizygote

Citation
When using the Pf4-Cre (or Cre(l4-icre) mouse strain in a publication, please cite the originating article(s) and include JAX stock 
#008536 in your Materials and Methods section.
Facility Barrier Level Descriptions

FGB29 (Standard)

Pricing & Availability
3–6 week average lead time depending on quantity and age requests are not accepted

Repository Live

Domestic
International
Pricing effective for USA, Canada and Mexico shipping destinations

<table>
<thead>
<tr>
<th>Live Mouse</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Hemizygous for Tg(Pf4-icre)Q3Rsko</td>
<td>$255.00</td>
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<tr>
<td>Approx 4-8 weeks</td>
<td>Male</td>
<td>Hemizygous for Tg(Pf4-icre)Q3Rsko</td>
<td>$255.00</td>
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<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Noncarrier</td>
<td>$76.22</td>
</tr>
<tr>
<td>Approx 4-8 weeks</td>
<td>Male</td>
<td>Noncarrier</td>
<td>$76.22</td>
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</table>

Breeder Pair

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<th>SEX</th>
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<tr>
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<td>Male</td>
<td>Hemizygous for Tg(Pf4-icre)Q3Rsko</td>
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