B6.Cg-Tg(Prrx1-cre)1Cjt/J

Stock No: 005584 | Prx1-Cre

Congenic, Transgenic

Also Known As: Prx1-Cre

This transgene expresses Cre recombinase under the control of a Prrx1 derived enhancer, and is expressed in the early limb bud mesenchyme and in a subset of craniofacial mesenchyme. This strain represents an effective tool for generating tissue specific-targeted mutants useful in studies of limb bud development and patterning.

Donating Investigator

Clifford J Tabin, Harvard Medical School

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td>N12×N3pN2</td>
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Tg(Prrx1-cre)1Cjt

Allele Type

Transgenic (Recombinase-expressing)

RESEARCH APPLICATIONS

Developmental Biology Research
Research Tools

BASE PRICE
Details

Detailed Description
Mice homozygous for the transgenic insert 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 paired related homeobox 1 promoter. Cre recombinase expression closely patterns endogenous gene expression and is detectable by embryonic day 9.5. Some recombination occurs in the female germline. When crossed with a strain containing a loxP site-flanked sequence of interest, Cre-mediated recombination results in deletion of the flanked sequence in early limb bud mesenchyme. This strain represents an effective tool for generating tissue specific-targeted mutants useful in studies of limb bud development and patterning.

View cre expression characterization.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Prrx1-cre)1Cjt

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
Standard PCR: Generic Cre
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, hemizygous transgenic mice are bred to wildtype siblings. Homozygous mice, reportedly, are viable and fertile.

Additional Breeding and Husbandry Support

Mating System
Hemizygote x +/- sibling

Citation
When using the Prx1-Cre mouse strain in a publication, please cite the originating article(s) and include JAX stock #005584 in your Materials and Methods section.

Animal Health Reports

Facility Barrier Level Descriptions

AX12 (Maximum)

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>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tr>
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<td>Female</td>
<td>Hemizygous for Tg(Prx1-cre)1Ct</td>
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<tr>
<td>Approx 4–8 weeks</td>
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<tr>
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Breeder Pair

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