B6;129S6-Sox17<sup>tm1Jaw</sup>/J

Stock No: 031712 | Sox17<sup>Fl</sup>

- Targeted Mutation

PLACE ORDER

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

Overview

Also Known As: Sox17<sup>Fl</sup>

Sox17<sup>flox</sup> mice possess loxP sites flanking exons 3-5 of the SRY (sex determining region Y)-box 17 (Sox17) gene. These floxed mice are useful for determination of the cell fate of ventral foregut cell lineages during embryonic development.

Donating Investigator

Dr. Jeffrey Whitsett, Children's Hospital Medical Center
**Sox17^tm1Jaw**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Targeted (Conditional ready (e.g. floxed), No functional change)</td>
<td>Sox17</td>
<td>SRY (sex determining region Y)-box 17</td>
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**RESEARCH APPLICATIONS**

Cell Biology Research
Research Tools

**BASE PRICE**

Starting at:

$255.00 Domestic price for female

**Details**

**Detailed Description**

Sox17^{flox} mice possess loxP sites flanking exons 3-5 of the SRY (sex determining region Y)-box 17 (Sox17) gene. The floxed region includes the transcriptional start sites for the full length and truncated Sox17 isoforms present in exons 4 and 5. Sox17 encodes a transcription factor involved with the regulation of embryonic development and in the determination of the cell fate. Mice that are homozygous for this allele are viable and fertile. When bred to mice that express tissue-specific Cre recombinase, resulting offspring will have exons 3-5 deleted in the cre-expressing tissues.

**Development**

**Control Suggestions**

**Selected References**

**Genetics**

**Sox17^{tm1Jaw}**
**Disease/Phenotype**

**Disease Terms**

**Research Areas By Genotype**

**Mammalian Phenotype Terms by Genotype**

**References**

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**Technical Support**

CONTACT TECHNICAL SUPPORT

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**Genotyping Protocols**
SEPARATED MELT: Sox17^{tm1.Jaw}
Genotyping resources and troubleshooting

**Breeding Considerations**
When maintaining a live colony, homozygous mice may be bred together.
Additional Breeding and Husbandry Support

**Mating System**
Homozygote x Homozygote

**Citation**
When using the Sox17^{tm1.Jaw} mouse strain in a publication, please cite the originating article(s) and include JAX stock #031712 in your Materials and Methods section.

**Facility Barrier Level Descriptions**
- AX11 (Maximum)

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**Pricing & Availability**

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

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**Domestic** | **International**
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<table>
<thead>
<tr>
<th>Live Mouse</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>Homozygous for Sox17^{tm1.Jaw}</td>
<td>$255.00</td>
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<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Sox17^{tm1.Jaw}</td>
<td>$255.00</td>
</tr>
</tbody>
</table>
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**Related Strains**

<table>
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<tbody>
<tr>
<td>By Allele</td>
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<tr>
<td>By Gene</td>
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<td>By Collection</td>
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</tbody>
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All Related Strains
Leading the search for
TOMORROW'S CURES

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