Overview

Also Known As: floxed Cx43
These Gja1<sup>tm1Dolg</sup> (also known as Cx43<sup>flox</sup>) floxed mutant mice may be useful in generating conditional mutations for studying the role of connexin and gap junctions in various tissues and systems, including the cardiovascular system.

Donating Investigator
Brian R Duling, Univ. of Virginia School of Medicine
## Genetic Background

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N5+N3F7 (2018-09-04 00:00:00)</td>
</tr>
</tbody>
</table>

## Gja1^tm1Dlg

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Conditional ready (e.g. floxed), No functional change)</td>
<td>Gja1</td>
<td>gap junction protein, alpha 1</td>
</tr>
</tbody>
</table>

## RESEARCH APPLICATIONS

Cardiovascular Research  
Research Tools  

## BASE PRICE

Starting at:  
$279.00 Domestic price for female

## VIEW ALL RESEARCH APPLICATIONS

## VIEW PRICE LIST

## Details

### Detailed Description

Mice homozygous for this Gja1^tm1Dlg (also known as Cx4.3^lox/lox) conditional allele are viable and fertile, with loxP sites flanking exon 2 of the targeted gene. Presence of the loxP sites has no reported affect on expression of the targeted gene. When bred to mice that express Cre recombinase, the resulting offspring will have exon 2 deleted in the cre-expressing tissue(s). These Gja1^tm1Dlg mutant mice may be useful in generating conditional mutations for studying the role of connexin and gap junctions in various tissues and systems, including the cardiovascular system.

## Development

## Control Suggestions

## Selected References

## Genetics

### Gja1^tm1Dlg
Genotyping Protocols
Standard PCR: Gja1<sup>tm10tg</sup>
Genotyping resources and troubleshooting

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

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

Citation
When using the S129/SvJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #008039 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions
AX10 (Standard)

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

<table>
<thead>
<tr>
<th>Domestic</th>
<th>International</th>
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</thead>
<tbody>
<tr>
<td>Live Mouse</td>
<td></td>
</tr>
<tr>
<td>AGE</td>
<td>SEX</td>
</tr>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
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<tr>
<td></td>
<td>Male</td>
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</table>
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**Related Strains**

- **All**
- **By Allele**
- **By Gene**
- **By Collection**

All Related Strains