Overview

Notch3 mutant KO mice exhibit abnormal arterial wall morphology. They may be useful in studies of the Notch pathway during development, vascular development and angiogenesis.

Donating Investigator
Madhulika Sharma, University of Kansas Medical Center

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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</table>

**Notch3**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
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<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Notch3</td>
<td>notch 3</td>
</tr>
</tbody>
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RESEARCH APPLICATIONS

Cardiovascular Research
Developmental Biology Research

BASE PRICE
Homozygotes display a disorganized artery wall morphology, and thin vascular smooth muscle cell coat and processes. Homozygous mice are viable and fertile with no gene product (mRNA or protein) detected by Northern blot analysis of brain, lung and heart tissue or Western blot analysis of lung and brain tissues.

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. It should be noted that the phenotype of these FVB-congenic mice could vary from that originally described on a B6;129S1 genetic background. We may modify the strain description if necessary as published results become available.
Technical Support

Genotyping Protocols
Standard PCR: Notch3
Separated PCR: Notch4
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, homozygotes may be bred together.

Additional Breeding and Husbandry Support

Citation
When using the Notch3<sup>d1</sup> mouse strain in a publication, please cite the originating article(s) and include JAX stock #023807 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

Pricing & Availability

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

<table>
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<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or wildtype for Notch3&lt;tm1Grid&gt;</td>
<td>$2,854.50</td>
</tr>
</tbody>
</table>

CRYORECOVERY - DOMESTIC PRICING

RELATED PRODUCTS AND SERVICES

<table>
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<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
<td>STOCK Notch3&lt;tm1Grid&gt;/MshaJ</td>
<td>$2595.00</td>
</tr>
</tbody>
</table>
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Phone: 207-288-6470
Email: TechTran@jax.org

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains