B6.129S1-Stat3<sup>tm1Yly/J</sup>

Stock No: 016923 | Stat3<sup>flox</sup>

- Congenic, Targeted Mutation

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**Overview**

Also Known As: Stat3<sup>flox</sup>

When these floxed Stat3 mutant mice are bred to different strains expressing Cre recombinase in various tissues, they have been useful in studies such as liver regeneration, cardiac injury, and Crohn's disease.

**Donating Investigator**

Xin-Yuan Fu, Indiana University School of Medicine

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3-6 week average lead time depending on quantity and age requests are not accepted
**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>N9xN1F5</td>
<td>(2018-10-23 00:00:00)</td>
</tr>
</tbody>
</table>

**Stat3<sup>tm1Yfy</sup>**

<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))</td>
<td>Stat3</td>
<td>signal transducer and activator of transcription 3</td>
</tr>
</tbody>
</table>

**RESEARCH APPLICATIONS**

Research Tools

**BASE PRICE**

Starting at:

$255.00 Domestic price for female

**Details**

**Detailed Description**

These mice possess loxP sites on either side of exons 18, 19 and 20 of the targeted gene. Exons 19 and 20 encode the SH2 domain. Mice that are homozygous for this allele are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. When these mutant mice are bred to mice that express Cre recombinase, resulting offspring will have exons 18, 19 and 20 deleted in the cre-expressing tissues.

When bred to a strain with Cre recombinase expression in the liver, under the control of the Ttr, transthyretin, promoter, this mutant mouse strain may be useful in studies of liver regeneration.

When bred to a strain with Cre recombinase expression in cardiac tissue (see Stock No. 011037 for example), this mutant mouse strain may be useful in studies of inflammation-induced cardiac injury.

When bred to a strain with Cre recombinase expression in the bone marrow and endothelial cells, under the control of the Tek (Tie2), endothelial-specific receptor tyrosine kinase, promoter, the resulting mice develop a Crohn's disease-like phenotype.
Genotyping Protocols
MELT: Stat3<sup>tm1Xyu</sup> alternate2
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, these mice can be bred as homozygotes.
Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Citation
When citing the Env<sup>flex</sup> mouse strain in a publication, please cite the originating article(s) and include JAX stock #016923 in your Materials and Methods section.

Facility Barrier Level Descriptions
- AX12 (Maximum)

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

### Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

#### Live Mouse

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approx 4–8 weeks</td>
<td>Female</td>
<td>Homozygous for Stat3^{m1Xyfu}</td>
<td>$255.00</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Stat3^{m1Xyfu}</td>
<td>$255.00</td>
</tr>
</tbody>
</table>

#### Related Products and Services

| Frozen Mouse Embryo | $2,595.00 per straw or vial |

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### Payment Terms and Conditions

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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### Terms Of Use

#### Terms of Use

General Terms and Conditions

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#### Licensing Information

Phone: 207-288-6470
Email: TechTran@jax.org

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains