Mice homozygous for the Fasl mutation display lymphadenopathy and systemic autoimmunity similar to that in Fasl homozygous mice. Homozygotes also have an enlarged spleen, greatly increased numbers of T, B, and null lymphocytes and develop immune complex glomerulonephrosis.

**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spontaneous</td>
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</table>

**Fasl<sup>gld</sup>**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Spontaneous</td>
<td>Fasl</td>
<td>Fas ligand (TNF superfamily, member 6)</td>
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</table>

**RESEARCH APPLICATIONS**

- Hematological Research
- Apoptosis Research
- Cancer Research
- Mouse/Human Gene Homologs
- Cell Biology Research
- Immunology, Inflammation and Autoimmunity Research
Mice homozygous for the Fasl mutation display lymphadenopathy and systemic autoimmunity similar to that in Fasl homozygous mice. There is significant enlargement of all lymph nodes to 50 times the control weight by 20 weeks of age. Homozygotes also have an enlarged spleen, greatly increased numbers of T, B, and null lymphocytes and develop immune complex glomerulonephrosis. Onset of symptoms is dependent on genetic background with the C3H/HeJ strain having the earliest onset exhibiting glomerulonephritis by 22 weeks. 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. This is the case for the strain above. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.

The Cryaalop18 mutation was identified in the C57BL/6JSmn inbred strain in approximately 1991. This is at least 5 years from the date of the final (N10) backcross generation of B6Smn.C3-Fasl/J. In 2003, four B6Smn.C3-Fasl/J mice were assessed and the recessive lop18 phenotype was absent from all of them. This does not guarantee that the Cryaa mutation is absent from this strain.
Genotyping Protocols
Restriction Enzyme Digest: Fasl
End Point Analysis: Fasl
Genotyping resources and troubleshooting

Breeding Considerations

This strain is a good breeder.

Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Appearance
black

Related Genotype: a/a

Citation
When using the Fasl gld mouse strain in a publication, please cite the originating article(s) and include JAX stock #001021 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

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<td>Homozygous for Fasl&lt;sup&gt;gld&lt;/sup&gt;</td>
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Pricing effective for USA, Canada and Mexico shipping destinations
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Email: TechTran@jax.org

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Related Strains

- All
- By Allele
- By Gene
- By Collection