Also Known As: Fasl gld
Mice homozygous for the Fasl gld mutation display lymphadenopathy and systemic autoimmunity similar to that in Fasl pr homozygous mice. Homozygotes also have an enlarged spleen, greatly increased numbers of T, B, and null lymphocytes and develop immune complex glomerulonephrosis.
Mice homozygous for the \( Fas^{gld} \) mutation display lymphadenopathy and systemic autoimmunity similar to that in \( Fas^{lpr} \) 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 \( Cryaa^{lop18} \) 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-\( Fas^{gld} \)/J. In 2003, four B6Smn.C3-\( Fas^{gld} \)/J mice were assessed and the recessive \( lop18 \) phenotype was absent from all of them. This does not guarantee that the \( Cryaa^{lop18} \) mutation is absent from this strain.
Genotyping Protocols
Restriction Enzyme Digest: Fast<sup>gld</sup>
End Point Analysis: Fast<sup>gld</sup>
Genotyping resources and troubleshooting

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

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 Fast<sup>gld</sup> 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
- AX1 (Standard)
- AX4 (Standard)
Sized to accommodate orders of up to 10 or more with age range. Ask Customer Service for details.

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<th>Age</th>
<th>Sex</th>
<th>Genotype</th>
<th>Price</th>
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Email: TechTran@jax.org
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Related Strains

- All
- By Allele
- By Gene
By Collection

All Related Strains

**C3H/HeJ-\textit{Fasl}^{\textit{gl}}/J**
- **Stock No:** 000784
- Related By: \textit{Fasl}, \textit{Fasl}^{\textit{Pd}}

**CPt.C3-\textit{Fasl}^{\textit{gl}}/J**
- **Stock No:** 002932
- Related By: \textit{Fasl}, \textit{Fasl}^{\textit{Pd}}

**FVB/N-Tg(tetO-\textit{Fasl})BDepa/J**
- **Stock No:** 014547
- Related By: \textit{Fasl}