These mice harbor a p.Cys1041Gly mutation in the Fbn1 (fibrillin 1) gene similar to that which causes classic manifestations of Marfan syndrome in humans (Cys1039Tyr). Heterozygous mice develop proximal aortic aneurysms, mitral valve thickenings, pulmonary alveolar septation defects, mild thoracic kyphosis, and skeletal myopathy, but 90% reportedly live to one year of age.

Donating Investigator
Harry Dietz, Johns Hopkins Medical Institute
Mice homozygous for this Fbn1 (fibrillin 1) Cys1041Gly missense mutation (previously identified as Cys1039Gly) are small and die before two weeks of age. A similar mutation in man (Cys1039Tyr) is known to cause classic manifestations of Marfan syndrome in humans. Heterozygous mice develop proximal aortic aneurysms, mitral valve thickenings, pulmonary alveolar septation defects, mild thoracic kyphosis, and skeletal myopathy, but 90% reportedly live to one year of age.
Genotyping Protocols
Standard PCR: Fbn1\textsuperscript{tm1Hcd}

Genotyping resources and troubleshooting

Dietary Information
LabDiet\textsuperscript{®} 5K52 formulation (6% fat)

Breeding Considerations
When maintained as a live colony, heterozygotes may be bred. Homozygotes die before two weeks of age.

Additional Breeding and Husbandry Support

Mating System
Wild-type x Heterozygote
Heterozygote x Wild-type

Citation
When using the C1039G mouse strain in a publication, please cite the originating article(s) and include JAX stock #012885 in your Materials and Methods section.

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

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>Heterozygous for Fbn1\textsuperscript{tm1Hcd}</td>
<td>$255.00</td>
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