B6.129-Fbn1 tm1Hcd/J

Stock No: 012885 | C1039G

Congenic, Targeted Mutation

AVAILABLE

PLACE ORDER

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

Overview

Also Known As: C1039G

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

READ MORE +
RESEARCH APPLICATIONS
Cardiovascular Research
Developmental Biology Research
Internal/Organ Research
Mouse/Human Gene Homologs

BASE PRICE
Starting at:

$255.00 Domestic price for female
333.51 Domestic price for breeder pair

Details

Detailed Description
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 thickening, pulmonary alveolar septation defects, mild thoracic kyphosis, and skeletal myopathy, but 90% reportedly live to one year of age.

Development

Control Suggestions

Selected References

Genetics

Fbn1<sup>tm1Hcd</sup>
Genotyping Protocols
- Standard PCR: Fbn1<sup>tm1Hcd</sup>
- Genotyping resources and troubleshooting

Dietary Information
- LabDiet<sup>®</sup> 5K52 formulation (6% fat)

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

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

Citation
- When using the G10366 mouse strain in a publication, please cite the originating article(s) and include JAX stock #012885 in your Materials and Methods section.

Animal Health Reports
- Facility Barrier Level Descriptions
- FGB29 (Standard)

Pricing & Availability

<table>
<thead>
<tr>
<th>Domestic</th>
<th>International</th>
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<tbody>
<tr>
<td>Live Mouse</td>
<td>Pricing effective for USA, Canada and Mexico shipping destinations</td>
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</table>

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Heterozygous for Fbn1&lt;sup&gt;tm1Hcd&lt;/sup&gt;</td>
<td>$255.00</td>
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**JAX® Mice, Products & Services Conditions of Use**

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<tr>
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<tr>
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<td>$78.51</td>
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**Breeder Pair**

**Related Products and Services**

| Frozen Mouse Embryo | B6.129-Fbn1<tm1Hcd>/J | $2595.00 |

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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

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

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