B6;129-Gla<sup>tm1Kul</sup>/J

Stock No: 003535 | -Gal A KO

-Targeted Mutation

AVAILABLE FOR PRE-ORDER

PRE-ORDER NOW
   Estimated to begin distribution on Mar 16, 2020

Overview

Also Known As: -Gal A KO

-Gal A mice contain a neo cassette replacing exon 3 and intron 3 of the galactosidase, alpha (Gla) gene, abolishing gene expression. These mice may be useful when studying the pathogenesis of Fabry disease.

Donating Investigator

Ashok B Kulkarni, NIDCR NIH

READ MORE +

**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gla&lt;sup&gt;tm1Kul&lt;/sup&gt;</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
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</tbody>
</table>
RESEARCH APPLICATIONS
Metabolism Research

BASE PRICE
Starting at:

$0.00 Domestic price for male
333.51 Domestic price for breeder pair
$2,854.50 Domestic price Cryo Recovery

Details

Detailed Description

-Gal A- mice contain a neo cassette replacing exon 3 and intron 3 of the galactosidase, alpha (Gla) gene, abolishing gene expression. GLA is an X-linked gene that encodes a neuroendocrine peptide that is expressed in the central and peripheral nervous systems and also the gastrointestinal tract, pancreas, adrenal gland and urogenital tract. Mutations in GLA have been associated with the development of Fabry disease, a lysosomal storage disorder caused by a buildup of a fat called globotriaosylceramide. Fabry disease is characterized by pain, particularly in the hands and feet (acroparesthesias), angioreratomas, hypohidrosis, corneal opacity, gastrointestinal issues, tinnitus, and hearing loss. Fabry disease can also lead to life-threatening complications such as progressive kidney damage, heart attack, and stroke. Mutations have also been associated with Alzheimer’s disease, epilepsy, depression, eating disorders, and impaired cognitive function.

Hemizygous males display abnormal kidney and liver morphology, both with accumulations of globotriaosylceramide. They also exhibit mild cardiomyopathy and abnormal cardiovascular physiology.

Development

Control Suggestions

Selected References

Genetics

Gla<sup>tmkal</sup>
Genotyping Protocols
Melt Curve Analysis: Gla<sup>tm1Kul</sup>
Standard PCR: Gla<sup>tm1Kul</sup>
Genotyping resources and troubleshooting

Breeding Considerations
Gal is an X-linked gene. When maintaining a live colony, homozygous females may be bred to hemizygous males.
Additional Breeding and Husbandry Support
Mating System
Heterozygote x Hemizygote

Citation
When using the -Gal A KO mouse strain in a publication, please cite the originating article(s) and include JAX stock #003535 in your Materials and Methods section.

Pricing & Availability

Estimated to begin distribution on Mar 16, 2020

<table>
<thead>
<tr>
<th>Live Mouse</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Heterozygous for Gla&lt;sup&gt;tm1Kul&lt;/sup&gt;</td>
<td>$255.00</td>
</tr>
<tr>
<td>Approx 4-8 weeks</td>
<td>Male</td>
<td>Hemizygous for Gla&lt;sup&gt;tm1Kul&lt;/sup&gt;</td>
<td>$255.00</td>
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</tbody>
</table>
Breeder Pair

<table>
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<tr>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>Female</td>
<td>Heterozygous for Gla&lt;tm1Kul&gt;</td>
<td>$333.51</td>
</tr>
<tr>
<td>Male</td>
<td>Wildtype for Gla&lt;tm1Kul&gt;</td>
<td></td>
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<tr>
<td>Female</td>
<td>Heterozygous for Gla&lt;tm1Kul&gt;</td>
<td>$510.00</td>
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<tr>
<td>Male</td>
<td>Hemizygous for Gla&lt;tm1Kul&gt;</td>
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<tr>
<td>Female</td>
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<td>Male</td>
<td>Hemizygous for Gla&lt;tm1Kul&gt;</td>
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Cryorecovery - Domestic Pricing

<table>
<thead>
<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Females are heterozygous and males are wildtype for Gla&lt;tm1Kul&gt;</td>
<td>$2,854.50</td>
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</tbody>
</table>

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a Dedicated Supply for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

Related Products and Services

- Frozen Mouse Embryo: $2,595.00 per straw or vial

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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General Terms and Conditions

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

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