BTBR-Pah\textsuperscript{enu2}/J

Stock No: 002232 | PAH\textsuperscript{enu2}

Chemically Induced Mutation

AVAILABLE

PLACE ORDER

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

Overview

Also Known As: PAH\textsuperscript{enu2}

Pah\textsuperscript{enu2} mice may be useful when studying severe hyperphenylalanemia.

Donating Investigator

Dr. Alexandra Shedlovsky, University of Wisconsin, Madison

READ MORE +

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td></td>
<td>(N_2p+F_2)</td>
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<td>(2018-04-02 00:00:00)</td>
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<table>
<thead>
<tr>
<th>Pah\textsuperscript{enu2}</th>
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<tbody>
<tr>
<td>Allele Type</td>
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<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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RESEARCH APPLICATIONS
Metabolism Research
Neurobiology Research
Mouse/Human Gene Homologs

BASE PRICE
Starting at:
- $255.00 Domestic price for female
- $110.00 Domestic price for breeder pair

Details

Detailed Description
Homozygous mutant mice show severe hyperphenylalanemia. They are hypopigmented unless maintained on a low phenylalanine diet. Females are fertile but do not rear their young when maintained on a standard mouse diet. The coat color of the background strain, BTBR \( ^T \) tf/tf, is black and tan \( (a^{f} / a^{f}) \). This strain is also homozygous for the gene tufted (tf/tf) resulting in various molting patterns in the mouse coat. These effects, limited to the mouse coat, may make the mice appear malformed.

Of note, this mutation is also available on a congenic C57BL/6J background as Stock No. 029218.

Development

Control Suggestions

Selected References

Genetics

Pah\(^{enu2}\)

Disease/Phenotype

Disease Terms
Genotyping Protocols
End Point Analysis: Pah<sup>emu2</sup> Alt 1
Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52/5K67

Breeding Considerations
When maintaining a live colony, heterozygous females may be bred to homozygous males. Technician's Note: This strain breeds well and does not require any special husbandry. The Jackson Laboratory maintains their colony on a 6% fat diet. The average litter size is 8-12 pups. The expected coat color from breeding is Black with Brown.
Additional Breeding and Husbandry Support

Mating System
Heterozygote x Homozygote

Appearance
black and tan, tufted
Related Genotype: a<sup>+</sup>/a<sup>+</sup> + T/· tf/tf

Citation
When using the Pah<sup>emu2</sup> mouse strain in a publication, please cite the originating article(s) and include JAX stock #002232 in your Materials and Methods section.

Animal Health Reports
AX11 (Maximum)

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

Domestic
International
Pricing effective for USA, Canada and Mexico shipping destinations

<table>
<thead>
<tr>
<th>Live Mouse</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
</table>

emu2
Approx 4-8 weeks  | SEX  | Genotype | Price
---|---|---|---
Female  | Heterozygous for Pah\textsuperscript{enu2} | $255.00
Male  | Heterozygous for Pah\textsuperscript{enu2} | $255.00

**Breeder Pair**

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<tr>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female</td>
<td>Heterozygous for Pah\textsuperscript{enu2}</td>
<td>$510.00</td>
</tr>
<tr>
<td>Male</td>
<td>Heterozygous for Pah\textsuperscript{enu2}</td>
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</tbody>
</table>

**Related Products and Services**

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

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**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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**Terms of Use**

*General Terms and Conditions*

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

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All

By Allele

By Gene

By Collection

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