**B10.Cg-H2 Sh3pxrd1/GrsrJ**

Stock No: 006446

Coisogenic, Congenic, Major Histocompatibility Congenic, Spontaneous Mutation

**CRYO RECOVERY**

**PLACE ORDER**

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.
Overview

Mice homozygous for the nose eyes ear mutation are runted, with proportionally smaller skeletons, shortened noses, shortened and domed skulls, reduced areal bone mineral density, diminished visceral and subcutaneous white adipose tissue, but not brown adipose tissue, and abnormal eyes and middle ears. The eyes have an enlarged anterior chamber, cloudy cornea, and severe peripheral anterior synechia of the irideocorneal angle. The middle ear shows inflammation as serous fluid with diffuse neutrophils with thickened epithelium. Elevated ABR thresholds are found in all homozygotes and homozygotes are infertile.

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>H2&lt;sup&gt;h4&lt;/sup&gt;</td>
<td></td>
</tr>
<tr>
<td>Allele Type</td>
<td>Gene Symbol</td>
</tr>
<tr>
<td>Not Applicable</td>
<td>H2</td>
</tr>
<tr>
<td>Sh3pxd2b&lt;sup&gt;nee&lt;/sup&gt;</td>
<td></td>
</tr>
<tr>
<td>Allele Type</td>
<td>Gene Symbol</td>
</tr>
<tr>
<td>Spontaneous</td>
<td>Sh3pxd2b</td>
</tr>
</tbody>
</table>

RESEARCH APPLICATIONS

Sensorineural Research
Internal/Organ Research
Endocrine Deficiency Research
Developmental Biology Research

BASE PRICE

Starting at:

$2,854.50 Domestic price cryo Recovery

Details
Detailed Description

Mice homozygous for the nose eyes ear mutation are runted, with proportionally smaller skeletons, shortened noses, shortened and domed skulls, reduced areal bone mineral density, diminished visceral and subcutaneous white adipose tissue, but not brown adipose tissue, and abnormal eyes and middle ears. The eyes have an enlarged anterior chamber, cloudy cornea, and severe peripheral anterior synechia of the irdeoconal angle. The middle ear shows inflammation as serous fluid with diffuse neutrophils with thickened epithelium. Elevated ABR thresholds are found in all homozygotes and homozygotes are infertile.

Development

Control Suggestions

Selected References

Genetics

*H2<sup>h4</sup>*

*Sh3pxd2b<sup>nee</sup>*

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols

Pyrosequencing: *Sh3pxd2b*

Sanger sequencing: *Sh3pxd2b SEQ*

Genotyping resources and troubleshooting
Appearance
appearance: black with runted body size and shortened face
associated genotype: \( a/a \) Sh3pxd2b\(^{nee}\)/Sh3pxd2b\(^{nee}\)

appearance: black, normal size
associated genotype: \( a/a \) Sh3pxd2b\(^{nee}\)/Sh3pxd2b\(^{+}\) or \( a/a \) Sh3pxd2b\(^{+}\)/Sh3pxd2b\(^{+}\)

Citation
When using the B10.Cg-H2\(^{H2}\)/Sh3pxd2b\(^{nee}\)/GrsrJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #006446 in your Materials and Methods section.

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

Pricing & Availability

Cryo Recovery

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

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

<table>
<thead>
<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>cryo Recovery</td>
<td>Heterozygous or wildtype for Sh3pxd2b(^{nee})</td>
<td>$2,854.50</td>
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</table>

<table>
<thead>
<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
<td>B10.Cg-H2(^{H4}) Sh3pxd2b(^{nee})/GrsrJ</td>
<td>$2595.00</td>
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Email: TechTran@jax.org

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