The AXB and BXA set of RI strains are useful in the genetic analysis of complex diseases. The individual strains within the RI set also differ in their susceptibility to infectious diseases and in their responses to alcohol, stress, and endotoxin. AXB and BXA strains are derived from the C57BL/6J (Stock No. 000664) and A/J (Stock No. 000646) progenitor strains.

### Genetic Overview

**Genetic Background**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spontaneous</td>
<td>Nrg3</td>
<td>neuregulin 3</td>
</tr>
</tbody>
</table>

### Research Applications

**Research Tools**

- Neurobiology Research

**BASE PRICE**

Starting at: $2,854.50 Domestic price Cryo Recovery
**Detailed Description**

The AXB and BXA set of RI strains are useful in the genetic analysis of several complex diseases including cardiovascular disease, diabetes, cancer, cleft palate, and hydrocephalus. The individual strains within the RI set also differ in their susceptibility to infectious diseases and in their responses to alcohol, stress, and endotoxin.

The strain distribution pattern (SDP) for the BXA RI strains is available through the Mouse Genome Informatics Contributed Data Sets and Gene Network.

Additional tools and information are presented through the Mouse Phenome Database Specialized Strain Panel Query Form, and Gene Network.

**Development**

**Genetics**

*Nrg3^{skα}*

**Disease/Phenotype**

**Disease Terms**

**Research Areas By Phenotype**

**Mammalian Phenotype Terms by Genotype**

**Phenotype Information**

**References**
Genotyping Protocols
Genotyping resources and troubleshooting

Appearance
albino
Related Genotype: a/a Tyrp<sup>b</sup> Tyrp<sup>b</sup> Tyr<sup>c</sup> Tyr<sup>c</sup>

Citation
When using the BXA7/PgnJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #001696 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

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

Pricing & Availability

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

<table>
<thead>
<tr>
<th>Cryorecovery - Domestic Pricing</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inbred, 1 pair minimum will be supplied</td>
<td>$2,854.50</td>
<td></td>
</tr>
</tbody>
</table>

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are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. Therefore, we cannot guarantee a strain's phenotype will meet all expectations. To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project.

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General Terms and Conditions

License Information

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

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains

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