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

<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>

**Overview**

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.
Through high density SNP analysis, some AXB and BXA recombinant inbred strains were shown to be the same or nearly the same genetically. AXB13/PgnJ and AXB14/PgnJ are considered "sister strains" being identical throughout much of the genome but differing in large regions of Chromosomes 11, 12, 13, and in small regions of a few other Chromosomes. Because these two strains are "near congenics" a nomenclature change has been made to update AXB14/PgnJ to AXB13a/PgnJ. In general, "sister" strains (those with suffixes of a or b) should not be used for primary screening/QTL mapping. However, if a QTL is located in a region of difference in a sister recombinant inbred then this strain can serve as a "near congenic" for additional analysis.

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 AXB 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$^{ska}$
Genotyping Protocols
Genotyping resources and troubleshooting

Appearance
albino
Related Genotype: Tyr<sup>c</sup>/Tyr<sup>c</sup>

Citation
When using the AXB13/PgnJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #001826 in your Materials and Methods section.

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.

Cryo Recovery - Domestic Pricing

<table>
<thead>
<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Inbred, 1 pair minimum will be supplied</td>
<td>$2,854.50</td>
</tr>
</tbody>
</table>

Contact Technical Support

C H A T  O F L I N E

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains
Leading the search for
TOMORROW'S CURES

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