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>Gene Set</th>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Nrg3</strong></td>
<td>Spontaneous</td>
<td>Nrg3</td>
<td>neuregulin 3</td>
</tr>
<tr>
<td><strong>Cacna1f</strong></td>
<td>Spontaneous</td>
<td>Cacna1f</td>
<td>calcium channel, voltage-dependent, alpha 1F subunit</td>
</tr>
</tbody>
</table>

**Research Tools**
- Sensorineural Research
- Neurobiology Research

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

[PLACE ORDER]

[VIEW GENETICS]

[VIEW ALL RESEARCH APPLICATIONS]
Details

Important Note
This strain is homozygous/hemizygous for $Cacna1f^{nob2}$, no b wave 2, which results in impaired light- and dark-adapted electroretinogram responses.

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 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

$Nrg3^{eka}$

$Cacna1f^{nob2}$

Disease/Phenotype
Genotyping Protocols
Genotyping resources and troubleshooting

Appearance
albino
Related Genotype: a/a Tyrp1<sup>b</sup> / Tyrp1<sup>b</sup> Tyr<sup>c</sup> / Tyr<sup>c</sup>

Citation
When using the AXB6/PgnJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #001678 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>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>

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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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The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains 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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Email: TechTran@jax.org

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Please note specific policy for live mice.

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**Related Strains**

- All
- By Allele
- By Gene
- By Collection

All Related Strains