Due to demand and low productivity, this colony is being expanded. An estimated distribution date is provided above.

The BXD set of RI strains is used in the genetic analysis of numerous complex or potentially complex physiologic phenotypes. The BXD strains are derived from the C57BL/6J (Stock No. 000664) and DBA/2J (Stock No. 000671) progenitor strains.

### Genetic Overview

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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</thead>
<tbody>
<tr>
<td>F36p+42</td>
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<td>(2019-10-02 00:00:00)</td>
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#### Klra8<sup>Cmv1-del</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Applicable</td>
<td>Klra8</td>
<td>killer cell lectin-like receptor, subfamily A, member 8</td>
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#### Myo5a<sup>d</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spontaneous</td>
<td>Myo5a</td>
<td>myosin VA</td>
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</tbody>
</table>

### Research Applications

**Research Tools**
- Neurobiology Research
- Dermatology Research
- Mouse/Human Gene Homologs
Details

Detailed Description

The BXD RI strains are used to study the genetics of behavioral phenotypes including alcohol and drug addiction, stress, and locomotor activity. The BXD set of RI strains also is used in the genetic analysis of numerous complex or potentially complex physiologic phenotypes including differences in organ weight and bone mineral density.

The strain distribution pattern (SDP) for the BXD 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

Control Suggestions

Selected References

Genetics

Klra8

Myo5a

Myo5ad
Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

Phenotype Information

References

Technical Support

Contact Technical Support

Genotyping Protocols
Genotyping resources and troubleshooting
Dietary Information
LabDiet® 5K52 formulation (6% fat)

Mating System
Sibling x Sibling
Appearance
steel grey
Related Genotype: a/a Tyrp1¹/Tyrp1¹ Myo5a²/Myo5a²

Citation
When using the BXD8/TyJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #000084 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

FGB29 (Standard)

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

Available

Domestic

Pricing effective for USA, Canada and Mexico shipping destinations

Live Mouse

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Not Applicable</td>
<td>$139.90</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Not Applicable</td>
<td>$139.90</td>
</tr>
</tbody>
</table>

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains