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

**Myo5a<sup>d</sup>**

- **Allele Type**: Spontaneous
- **Gene Symbol**: Myo5a
- **Gene Name**: myosin VA

### Klra8<sup>Cmv1-del</sup>

- **Allele Type**: Not Applicable
- **Gene Symbol**: Klra8
- **Gene Name**: killer cell lectin-like receptor, subfamily A, member 8

### RESEARCH APPLICATIONS

- Neurobiology Research
- Dermatology Research
- Mouse/Human Gene Homologs
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.
**Disease/Phenotype**

**Disease Terms**

**Research Areas By Phenotype**

**Mammalian Phenotype Terms by Genotype**

**Phenotype Information**

**References**

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**Technical Support**

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**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 Tyrp1+/Tyrp1+ Myo5ad/Myo5ad

**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.

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**Animal Health Reports**

Facility Barrier Level Descriptions

- FGB29 (Standard)
Pricing & Availability

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

Domestic

Pricing effective for USA, Canada and Mexico shipping destinations

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<th>GENOTYPE</th>
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<td>$139.90</td>
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<tr>
<td></td>
<td>Male</td>
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THE JACKSON LABORATORY'S GENOTYPE PROMISE

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. We do not guarantee breeding performance and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

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LICENSING INFORMATION

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

<table>
<thead>
<tr>
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