The BXD set of RI strains is used in the genetic analysis of numerous complex or potentially complex physiologic phenotypes. The strain distribution pattern (SDP) for BXD RI strains is available through the Mouse Genome Informatics Recombinant Inbred Strain Distribution Patterns. The BXD strains are derived from the C57BL/6J (Stock No. 000664) and DBA/2J (Stock No. 000671) progenitor strains.
**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 are 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.

This strain has the wild-type allele of *Tlr4*. For the subline homozygous for the mutation defective lipopolysaccharide response 2 Jackson, please see stock number 000029.

**Development**

**Selected References**

**Genetics**

**Myo5ad**

**Disease/Phenotype**
Genotyping Protocols
*Genotyping resources and troubleshooting

Dietary Information
*LabDiet® 5K52 formulation (6% fat)

Mating System
*Sibling x Sibling

Appearance
*steel grey
Related Genotype: \( a^a / a^a \) \( Tyrp1^+ / Tyrp1^+ \) \( Myo5a^d / Myo5a^d \)

Citation
*When using the BXD29/Ty mouse strain in a publication, please cite the originating article(s) and include JAX stock #010981 in your Materials and Methods section.

Animal Health Reports
*Facility Barrier Level Descriptions
  * FGB29 (Standard)

Pricing & Availability

**Domestic**
Pricing effective for USA, Canada and Mexico shipping destinations

<table>
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<tr>
<th>Live Mouse</th>
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<th>GENOTYPE</th>
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By Gene

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