Overview

**BTBR**

**Inbred Strain**

**AVAILABLE NOW**

**PLACE ORDER**

Sized to accommodate orders of up to 50 or more. Ask Customer Service for details.

Stock No: 002282 | BTBR
Also Known As: BTBR
This strain is used in studies of autism because it exhibits several symptoms of autism including: reduced social interactions, impaired play, unusual vocalizations as compared to other inbred strains. BTBR mice exhibit a 100% absence of the corpus callosum and a severely reduced hippocampal commissure.
BTBR mice exhibit a 100% absence of the corpus callosum and a severely reduced hippocampal commissure (Wahlsten D, 2003 Brain Res). This strain exhibits several symptoms of autism including: reduced social interactions, impaired play, low exploratory behavior, unusual vocalizations and high anxiety as compared to other inbred strains (McFarlane HG, 2008, Gen, Brain Behav; Moy SS, 2007, Behav Br Res; Scattoni ML, 2008, PLoS). Diet has been found to impact these phenotypes, levels of neuroinflammation, neurogenesis and synaptic function (Currais et al., 2016, Mol Psych).

In 2019, researchers at The Jackson Laboratory discovered this inbred strain has a nonsense mutation in Trem2 affecting codon 148 (dbSNP ID: rs107649577 [Ensembl GRCm38.p6]).
Genotyping Protocols

End Point Analysis: Itpr3<sup>ff</sup>

Genotyping resources and troubleshooting

Inbred mouse strains are maintained through sibling (sister x brother) matings; no genotyping required.

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

This strain is an exceptional breeder.

Additional Breeding and Husbandry Support

Mating System

Sibling x Sibling

Appearance

black and tan, tufted

Related Genotype: a/a<sup>T</sup> Itpr3<sup>ff</sup>/Itpr3<sup>ff</sup>

Citation

When using the BTBR mouse strain in a publication, please include JAX stock #002282 in your Materials and Methods section.

Pricing & Availability

Sized to accommodate orders of up to 50 or more. Ask Customer Service for details.

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Related Products and Services

| Mouse ES Cells | BTBR T+ tf/J-PB60.6 mES cells | $695.00 |

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