



BTBR^R/tp#3J

Stock No: 002282 | BTBR

Inbred Strain



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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.

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

[Contact Technical Support](#)
(2018-07-27 00:00:00)

VIEW GENETICS

RESEARCH APPLICATIONS

Dermatology Research
Neurobiology Research
Developmental Biology Research

[VIEW ALL RESEARCH APPLICATIONS](#)

BASE PRICE

Starting at:

\$114.62 Domestic price for female 3-week

[VIEW PRICE LIST](#)

Details

Detailed Description

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](#)]).

Development

Selected References

Genetics

Disc1^{del}

T⁺

Itpr3^{tf}

Cox7a2^l

Disease/Phenotype

Disease Terms

[+ Research Areas By Genotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ Phenotype Information](#)

[+ References](#)

[- Technical Support](#)

TECHNICAL SUPPORT CHAT

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

End Point Analysis:[Itpr3^{tf} End Point](#)

[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: $a^t/a^t T^+/T^+ Itpr3^{tf}/Itpr3^{tf}$

Citation

Animal Health Reports

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

[Facility Barrier Level Descriptions](#)

 [AX8 \(Standard\)](#)

[- Pricing & Availability](#)



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Live Mouse

AGE	SEX	GENOTYPE	PRICE
3 weeks	Female	Not Applicable	\$114.62
	Male	Not Applicable	\$114.62

4 weeks	SEX	Not Applicable	\$114.62
		Not Applicable	\$114.62
5 weeks	Female	Not Applicable	\$114.62
	Male	Not Applicable	\$114.62
6 weeks	Female	Not Applicable	\$118.07
	Male	Not Applicable	\$118.07
7 weeks	Female	Not Applicable	\$121.52
	Male	Not Applicable	\$121.52
8 weeks	Female	Not Applicable	\$124.97
	Male	Not Applicable	\$124.97
9 weeks	Female	Not Applicable	\$128.42
	Male	Not Applicable	\$128.42
10 weeks	Female	Not Applicable	\$131.87
	Male	Not Applicable	\$131.87
11 weeks	Male	Not Applicable	\$135.32

Related Products and Services

Mouse ES Cells	BTBR T+ tf/J-PB60.6 mES cells	\$695.00
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Email: TechTran@jax.org

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