

**STOCK *Bdnf*<sup>tm3Jae</sup> /J**  
Stock No: **004339** | *Bdnf*<sup>2lox</sup>

 Targeted Mutation

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

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expressing a tetracycline-controlled activator protein in brain tissues or neuronal cells, for example, this mutant mouse strain may be useful in studies of hippocampal-dependent learning and long-term potentiation, and epilepsy respectively.

### Donating Investigator

Rudolf Jaenisch, Whitehead Institute, Massachusetts Institute of Technology

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## GENETIC OVERVIEW

### Genetic Background

### Generation

*N?F?+N1F28*  
(2021-04-01 00:00:00)

### *Bdnf*<sup>tm3Jae</sup>

### Alele Type

Targeted (Conditional ready (e.g. floxed), No functional change)

### Gene Symbol

*Bdnf*

### Gene Name

brain derived neurotrophic factor

VIEW GENETICS

## RESEARCH APPLICATIONS

Research Tools

Neurobiology Research

Apoptosis Research

Sensorineural Research

VIEW ALL RESEARCH APPLICATIONS

## BASE PRICE

Starting at:

\$278.00 Domestic price for female 4-week

V I E W   P R I C E   L I S T

### Details

#### Detailed Description

These mice possess *loxP* sites on either side of the brain derived neurotrophic factor (*Bdnf*) coding region. Mice that are homozygous for this allele are viable and fertile.

When bred to a strain expressing Cre recombinase under the control of a tetracycline-responsive promoter element (see Stock No. [006224](#), [006234](#), [006244](#)) and a strain expressing a tetracycline-controlled activator protein in brain tissues (see Stock No. [003763](#)), this mutant mouse strain may be useful in studies of hippocampal-dependent learning and long-term potentiation.

When bred to a strain expressing Cre recombinase in neuronal cells (see Stock No. [003966](#) for example), this mutant mouse strain may be useful in studies of epilepsy.

#### Development

#### Control Suggestions

#### Selected References

### Genetics

#### *Bdnf*<sup>tm3Jae</sup>

### Disease/Phenotype

[+ Disease Terms](#)

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[+ Research Areas By Phenotype](#)

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[+ Mammalian Phenotype Terms by Genotype](#)

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[+ References](#)

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## [- Technical Support](#)

C O N T A C T   T E C H N I C A L   S U P P O R T

### Genotyping Protocols

Standard PCR:[Bdnf Alternate1](#)

Standard PCR:[Bdnf](#)

[Genotyping resources and troubleshooting](#)

### Dietary Information

LabDiet® 5K52 formulation (6% fat)

### Breeding Considerations

This strain originated on a mixed C;129S4 background. The Donating Investigator maintained it as as a homozygote on a mixed B6, 129S4, BALB/c background. Coat color expected from breeding:Albino

### [Additional Breeding and Husbandry Support](#)

#### Mating System

Homozygote x Homozygote

#### Citation

When using the *Bdnf*<sup>2lox</sup> mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #004339 in your Materials and Methods section.

### Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX9 \(Standard\)](#)

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## [- Pricing & Availability](#)



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

Available

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| LIVE MOUSE |        |                                       |          |
|------------|--------|---------------------------------------|----------|
| AGE        | SEX    | GENOTYPE                              | PRICE    |
| 4 weeks    | Female | Homozygous for Bdnf <sup>tm3Jae</sup> | \$278.00 |
|            | Male   | Homozygous for Bdnf <sup>tm3Jae</sup> | \$278.00 |
| 5 weeks    | Female | Homozygous for Bdnf <sup>tm3Jae</sup> | \$278.00 |
|            | Male   | Homozygous for Bdnf <sup>tm3Jae</sup> | \$278.00 |
| 6 weeks    | Female | Homozygous for Bdnf <sup>tm3Jae</sup> | \$278.00 |
|            | Male   | Homozygous for Bdnf <sup>tm3Jae</sup> | \$278.00 |
| 7 weeks    | Female | Homozygous for Bdnf <sup>tm3Jae</sup> | \$278.00 |
|            | Male   | Homozygous for Bdnf <sup>tm3Jae</sup> | \$278.00 |
| 8 weeks    | Female | Homozygous for Bdnf <sup>tm3Jae</sup> | \$278.00 |
|            | Male   | Homozygous for Bdnf <sup>tm3Jae</sup> | \$278.00 |
| 9 weeks    | Female | Homozygous for Bdnf <sup>tm3Jae</sup> | \$278.00 |
|            | Male   | Homozygous for Bdnf <sup>tm3Jae</sup> | \$278.00 |
| 10 weeks   | Female | Homozygous for Bdnf <sup>tm3Jae</sup> | \$278.00 |
|            | Male   | Homozygous for Bdnf <sup>tm3Jae</sup> | \$278.00 |
| 11 weeks   | Female | Homozygous for Bdnf <sup>tm3Jae</sup> | \$278.00 |
|            | Male   | Homozygous for Bdnf <sup>tm3Jae</sup> | \$278.00 |
| 12 weeks   | Female | Homozygous for Bdnf <sup>tm3Jae</sup> | \$278.00 |
|            | Male   | Homozygous for Bdnf <sup>tm3Jae</sup> | \$278.00 |

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Q U E S T I O N S   A B O U T   T E R M S   O F   U S E

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### LICENSING INFORMATION

Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)

## Related Strains

All

By Allele

By Gene

By Collection





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