

**B6.129S4-*Bdnf*<sup>tm1Jae</sup> /J**

Stock No: **002266** | BDNF

 Congenic, Targeted Mutation

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

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factor defects, hearing defects, and nociception.

Donating Investigator

IMR Colony, The Jackson Laboratory

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## GENETIC OVERVIEW

Genetic Background

Generation

*Bdnf*<sup>tm1Jae</sup>

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

*Bdnf*

brain derived neurotrophic factor

VIEW GENETICS

## RESEARCH APPLICATIONS

Neurobiology Research

Sensorineural Research

Apoptosis Research

VIEW ALL RESEARCH APPLICATIONS

## BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W   P R I C E   L I S T

### Details

#### Detailed Description

Mice heterozygous for the  $Bdnf^{tm1Jae}$  mutation show about half normal levels of  $Bdnf$  mRNA, but appear normal. Mice homozygous for the  $Bdnf^{tm1Jae}$  mutation are smaller than normal siblings and most die within the second postnatal week. They have defective coordination of movements and balance. They also exhibit head bobbing and spinning during periods of hyperactivity. There are rare survivors to adulthood. There is excessive degeneration in all sensory ganglia examined, including the vestibular ganglion. Motor neurons are not affected. BDNF can prevent death of central motor neurons and other neurons *in vitro*, but does not affect these *in vivo*.

#### Control Suggestions

#### Selected References

### Genetics

#### $Bdnf^{tm1Jae}$

### Disease/Phenotype

#### Disease Terms

#### Research Areas By Phenotype

#### Mammalian Phenotype Terms by Genotype

#### References

## Technical Support

### CONTACT TECHNICAL SUPPORT

#### Genotyping Protocols

Standard PCR:[Bdnf](#)

Standard PCR:[Bdnf](#)

[Genotyping resources and troubleshooting](#)

#### Breeding Considerations

The *Bdnf*<sup>tm1Jae</sup> strain is maintained by mating heterozygous mice to normal wildtype siblings. Heterozygous x wildtype breeder pairs are supplied. Expected coat color from breeding:Black

[Additional Breeding and Husbandry Support](#)

#### Mating System

+/+ sibling x Heterozygote

#### Citation

When using the BDNF<sup>-/-</sup> mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #002266 in your Materials and Methods section.

#### Animal Health Reports

[Facility Barrier Level Descriptions](#)

*Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200*

## Pricing & Availability



Cryo  
Recovery

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

### Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

#### CRYORECOVERY - DOMESTIC PRICING

| SERVICE/PRODUCT               | DESCRIPTION  | PRICE      |
|-------------------------------|--|------------|
| <a href="#">Cryo Recovery</a> | Heterozygous or Wild-type for <i>Bdnf</i> <tm1Jae> | \$2,854.50 |

## PAYMENT TERMS AND CONDITIONS

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

## 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.

### Terms Of Use

#### TERMS OF USE

[General Terms and Conditions](#)

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

#### ADDITIONAL USE RESTRICTIONS APPLY

[Use of MICE by companies or for-profit entities requires a license prior to shipping.](#)

#### LICENSING INFORMATION

Phone: 207-288-6470

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

### Related Strains

All

By Allele

By Gene

By Collection



## DO YOU NEED BALB/c MICE?

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*Leading the search for*

# TOMORROW'S CURES



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