B6.129S4-Bdnf^tm1Jae/J

Stock No: 002266 | BDNF -

Congenic, Targeted Mutation

PLACE ORDER

3-6 week lead time for most orders depending on quantity and age range requested

Also Known As: BDNF^-
Mice homozygous for the Bdnf knock-out show degeneration in sensory ganglia, and may be useful in studies of neurotrophic factor defects, hearing defects, and nociception.

Donating Investigator
IMR Colony, The Jackson Laboratory

READ MORE +

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td></td>
<td>N6F45</td>
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<td>(2018-11-30 00:00:00)</td>
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Bdnf^tm1Jae

<table>
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<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tr>
<td>Targeted (Null/Knockout)</td>
<td>Bdnf</td>
<td>brain derived neurotrophic factor</td>
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VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research
Sensorineural Research
Apoptosis Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE
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.
Dietary Information
LabDiet® 5K52 formulation (6% fat)

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 BNDG mouse strain in a publication, please cite the originating article(s) and include JAX stock #002266 in your Materials and Methods section.

Facility Barrier Level Descriptions

Repository Live

Pricing & Availability

3–6 week lead time for most orders depending on quantity and age range requested

<table>
<thead>
<tr>
<th>Live Mouse</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Heterozygous for Bdnf&lt;sup&gt;tm1Jae&lt;/sup&gt;</td>
<td>$271.00</td>
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<tr>
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<td>Male</td>
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<td>$271.00</td>
</tr>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Wild-type for Bdnf&lt;sup&gt;tm1Jae&lt;/sup&gt;</td>
<td>$76.22</td>
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<td>Male</td>
<td>Wild-type for Bdnf&lt;sup&gt;tm1Jae&lt;/sup&gt;</td>
<td>$76.22</td>
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Breeder Pair

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<tr>
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### Related Strains

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<tr>
<td>By Collection</td>
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All Related Strains
Leading the search for
TOMORROW'S CURES