B6N.129S1-Casp3<sup>tm1Flv</sup>/J

Stock No: 006233 | CPP32-

- Congenic, Targeted Mutation

PLACE ORDER

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

Also Known As: CPP32-

Brain development in Casp3-deficient mice shows a variety of hyperplasias and disorganized cell deployment, and ovaries from female homozygotes show aberrant development. These mutant mice may be useful in studies of apoptosis, ovarian follicle and corpus luteum development, and eye and ear development.

Donating Investigator

Dr. Richard A. Flavell, Yale University School of Medicine

READ MORE +

**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N10 × N3F1</td>
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<tr>
<td></td>
<td>(2018-11-30 00:00:00)</td>
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<table>
<thead>
<tr>
<th>Casp3&lt;sup&gt;tm1Flv&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allele Type</td>
</tr>
<tr>
<td>Targeted (Null/Knockout)</td>
</tr>
</tbody>
</table>

VIEW GENETICS

**RESEARCH APPLICATIONS**

- Reproductive Biology Research
- Developmental Biology Research
- Immunology, Inflammation and Autoimmunity Research
- Cardiovascular Research
- Research Tools
- Sensorineural Research
- Mouse/Human Gene Homologs
- Apoptosis Research
Details

Detailed Description

On this C57BL/6 congenic background, homozygotes are viable, fertile, and reach adulthood, but females reported display suboptimal mothering instincts. Functional endogenous protein and mRNA are absent from all tissues tested. Homozygous mice are resistant to in vivo cerebral ischemia/reperfusion and in vitro oxygen-glucose deprivation. Ovaries from female homozygotes show aberrant atretic follicles associated with a granulosa cell-intrinsic defect in apoptosis as well as defective corpus luteum regression. Homozygous mice are congenitally deaf with hair cell defects in the Organ of Corti. Optic lens formation/morphology also is abnormal with cataracts at the anterior lens pole. Of note, these mice lack the embryonic/perinatal-lethal brain pathology observed in mutant mice on the 129 and mixed B6;129 genetic backgrounds. These mutant mice may be useful in studies of apoptosis, ovarian follicle and corpus luteum development, and eye and ear development.

Development

Control Suggestions

Selected References

Genetics

Casp3<sup>tm1Hv</sup>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References
Technical Support

Genotyping Protocols
Standard PCR: Casp3<sup>tm1Fiv</sup>
Genotyping resources and troubleshooting

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

Breeding Considerations
When maintaining a live colony, heterozygous females are bred with either heterozygous or homozygous males. The donating investigator reports that homozygous females are poor mothers. Additional Breeding and Husbandry Support

Mating System
Wild-type x Heterozygote
Heterozygote x Wild-type

Citation
When using the FVB.Casp3<sup>tm1Fiv</sup> mouse strain in a publication, please cite the originating article(s) and include JAX stock #006233 in your Materials and Methods section.

FGB29 (Standard)

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

Repository Live

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Domestic | International
Pricing effective for USA, Canada and Mexico shipping destinations

<table>
<thead>
<tr>
<th>Live Mouse</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Heterozygous for Casp3&lt;sup&gt;tm1Fiv&lt;/sup&gt;</td>
<td>$255.00</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Heterozygous for Casp3&lt;sup&gt;tm1Fiv&lt;/sup&gt;</td>
<td>$255.00</td>
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<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Wild-type for Casp3&lt;sup&gt;tm1Fiv&lt;/sup&gt;</td>
<td>$76.22</td>
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<tr>
<td></td>
<td>Male</td>
<td>Wild-type for Casp3&lt;sup&gt;tm1Fiv&lt;/sup&gt;</td>
<td>$76.22</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Breeder Pair</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tr>
<td></td>
<td></td>
<td>Casp3&lt;sup&gt;tm1Fiv&lt;/sup&gt;</td>
<td>$510.00</td>
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</tbody>
</table>
### Female Heterozygous for Casp3

- Male: Heterozygous for Casp3
- Female: Heterozygous for Casp3
  - $331.22

### Male Wild-type for Casp3

- Female: Wild-type for Casp3
- Male: Heterozygous for Casp3
  - $331.22

#### Related Products and Services

| Frozen Mouse Embryo | $2,595.00 per straw or vial |

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- Email: TechTran@jax.org

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Shipments have begun at our new facility, allowing increased access to JAX mouse models.

Leading the search for
TOMORROW'S CURES

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