C3Fe.SWV-Mbp\(^{shi}\)/J

Stock No: 001428 | C3HeB/FeJ-shiverer

Green: Congenic Spontaneous Mutation

AVAILABLE

PLACE ORDER

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

Overview

Also Known As: C3HeB/FeJ-shiverer

Shiverer is an autosomal recessive mutation in the mouse characterized by early generalized tremors that become prominent in the hindquarters with age. Seizure behavior begins after weaning and increases in frequency during the animal's shortened lifespan. The most prominent pathological feature is a deficiency of myelin and myelin basic protein in the central nervous system. These mice may be useful in studies relating to myelin related diseases.

READ MORE +

GENETIC OVERVIEW

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<th>Genetic Background</th>
<th>Generation</th>
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<tr>
<td>000658 C3HeB/FeJ</td>
<td>N40+N5F4</td>
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<td>Allele Type</td>
<td>Gene Symbol</td>
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<td>Mpb</td>
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**RESEARCH APPLICATIONS**
Neurobiology Research
Sensorineural Research

**BASE PRICE**
Starting at:

- $278.00 Domestic price for female
- $566.00 Domestic price for breeder pair

**Details**

**Detailed Description**
Mice homozygous for the shiverer spontaneous mutation (Mpb<sup>shi</sup>) show a generalized tremor during locomotion from 12 days of age. This shivering increases in severity with age, and there is incoordination of the hindlimbs. Post-weaning mice undergo seizure-like attacks during which they may lie rigid and motionless for many seconds. Homozygotes are noticeably smaller than their littermates by 4 weeks of age and their life span is shortened. They usually die between 50 and 100 days of age, often while undergoing an attack. They are fertile but do not breed well. There is a severe myelin deficiency throughout the CNS, and a moderate hypomyelination in the PNS. Occasional regions of normal appearing myelin are found throughout the CNS. Heterozygous mice behave normally and have structurally normal myelin but produce only half the normal amount of MBP in both CNS and PNS. Myelin deficient (Mbp<sup>shi-mid</sup>) homozygotes closely resemble shiverer mice in behavior, neuropathology, and MBP deficiency.

**Development**

**Control Suggestions**

**Selected References**

**Genetics**

**Mpb<sup>shi</sup>**

**Disease/Phenotype**
Genotyping Protocols
QPCR: Mbp<sup>shi</sup>
Standard PCR: Mbp<sup>shi</sup>
Genotyping resources and troubleshooting

Dietary Information
LabDiet<sup>®</sup> 5K52 formulation (6% fat)

Mating System
Heterozygote x Homozygote
When maintaining this strain, Homozygous and heterozygous mice may be bred together

Appearance
agouti, tremors
Related Genotype: A/A Mbp<sup>shi</sup>/Mbp<sup>shi</sup>

agouti, unaffected
Related Genotype: A/A Mbp<sup>shi</sup>/+ or A/A ?/+ 

Citation
When using the C57BL/6J-<i>shibbé</i> mouse strain in a publication, please cite the originating article(s) and include JAX stock #001428 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions
AX10 (Standard)

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

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

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<th>AGE</th>
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