

## **A remutation to bouncy on the C57BL/6J background, bouncy 9 Jackson**

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Mutation (allele) symbol:  $bc^{9J}$

Mutation (allele) name: bouncy 9 Jackson

Gene symbol:  $bc$

Strain of origin: C57BL/6J

Current strain name: C57BL/6J- $bc^{9J}$ /GrsrJ

Stock #014105 (jaxmice.jax.org)

Phenotype categories: neurological

### **Origin and Description**

A new recessive neurological mutation arose spontaneously in the C57BL/6J mouse strain at The Jackson Laboratory, where it was identified by Sheila Lavoie in June, 2009. Homozygous mutants exhibit a moderate tremor and impaired movement gait. Mutants are noticeable as early as 2-3 weeks age and are smaller than littermates. Mutant mice live a normal life span and breed fairly well, although male homozygotes are not as productive as female homozygotes.

### **Genetic Analysis**

Phenotypic similarity indicated bouncy as a candidate gene. A direct allele test was set up by mating this new mutation with  $bc^{8J}$ . This heterozygote x heterozygote mating produced 94 progeny of which 6 expressed the mutant phenotype, proving this new mutation to be a defect in  $bc$ . This mutation was assigned the allele designation  $bc^{9J}$ .

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