RB156BnDrsp+fGruf/GrsrJ

Stock No: 005354 | spontaneous fracture 2 Jackson

Robertsonian, Spontaneous Mutation

NOT AVAILABLE AT JAX

Please contact Technical Support for more information

Overview

Also Known As: spontaneous fracture 2 Jackson

This strain has been discontinued, please refer to Stock No. 004317 for a different allele of this gene on a different genetic background or search the JAX® Mice Database for an alternative strain.
GENETIC OVERVIEW

Genetic Background | Generation
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**Dsp<sup>rul</sup>**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spontaneous (Hypomorph)</td>
<td>Dsp</td>
<td>desmoplakin</td>
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</tbody>
</table>

**Gulo<sup>sfx-2J</sup>**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spontaneous</td>
<td>Gulo</td>
<td>gulonolactone (L-) oxidase</td>
</tr>
</tbody>
</table>

RESEARCH APPLICATIONS

Dermatology Research  
Developmental Biology Research  
Internal/Organ Research  
Cardiovascular Research  
Cell Biology Research

Details

Important Note

This strain is still segregating for *rul* which causes a ruffled, sparse fur appearance. This genetic background is homozygous for Robertsonian translocations Rb(1.3)1Bnr, Rb(8.12)5Bnr, and Rb(9.14)6Bnr.

Detailed Description

The phenotype of the sfx<sup>2J</sup> remutation is identifiable at 4-5 weeks of age when the mutants appear smaller than their control littermates and begin to hobble about their cage. Between 5 and 8 weeks of age the mutants develop rear limb paralysis and many die by 8 weeks of age. The phenotypic characteristics of this mutation are similar to the original mutation spontaneous fracture (*Gulo<sup>sfx</sup>* ) except for the eye phenotype described below that is inherent in the background strain on which the sfx<sup>2J</sup> mutation arose.

Mice homozygous for the sfx<sup>2J</sup> remutation also had cataracts and rosettes and wavy outer nuclear layer of retinas. The eyes of a female mutant were checked using an opthalmoscope and it was found to have cataracts on both eyes (as the strain background has characteristically). It has not yet been determined if the rosettes and wavy outer nuclear layer of the retinas is also characteristic of the background strain.

Development

Control Suggestions

Selected References
Genotyping Protocols
Genotyping resources and troubleshooting

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**B6.129-Dsp**
Stock No: 026665
Related By: Dsp

**BALB/cBy-Gulo**
Stock No: 004317 | spontaneous fracture
Related By: Gulo

**RB156Bnr/Ei-Dsp**
Stock No: 005362 | ruffled
Related By: Dsp, Dsp<sup>r</sup>

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