B6.C3(Cg)-Rora<sup>sg</sup>/J

**Stock No:** 002651 | B6-staggerer

Gene Symbol: Rora

**Rora<sup>sg</sup>**

<table>
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<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tr>
<td>Spontaneous</td>
<td>Rora</td>
<td>RAR-related orphan receptor alpha</td>
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Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

Also Known As: B6-staggerer

The cerebellar cortex of homozygous mutant staggerer (Rora<sup>sg</sup>) mice show a deficiency of granule cells and Purkinje cells. They have a staggering gait, mild tremor, and hypotonia. These mice may be useful in studies of the composition and function of granule cells.

Neurobiology Research

Starting at:

$2,595.00 Domestic price Cryo Recovery
Mice homozygous for the staggerer spontaneous mutation (Rora<sup>^{59}</sup>) show a staggering gait, mild tremor, hypotonia, and small size. The cerebellar cortex of homozygous mutant mice is grossly underdeveloped with a deficiency of granule cells and Purkinje cells. The remaining granule cells migrate inward from the external layer prematurely and then degenerate. Purkinje cells are much delayed in postnatal differentiation and lack the dendritic spines on which synapses with the parallel fibers from the granule cells normally occur. Staggerer mutant mice have been used as a source of an agranulate cerebellum in a number of investigations of the composition and function of granule cells. Kopmels et al. have reported a hyperproduction of IL1 biological activity and mRNA from LPS stimulated spleen cells of Rora<sup>^{59}</sup>/Rora<sup>^{59}</sup> mice on the C57BL/6J background relative to wild type siblings. In addition, homozygous mice exhibit an enhanced susceptibility to LPS-induced lung inflammation, suggesting a role for Rora in LPS-induced inflammatory responses (Stapleton CM, et al., 2005).
Breeding Considerations

Rora<sup>59</sup>/Rora<sup>59</sup> mice can be identified by 10-15 days of age by their poor locomotor coordination, lurching movements and frequent falls; homozygotes as young as three days can be distinguished by behavioral testing (Heuze et al. 1997). Homozygotes die between two to three weeks of age. Due to their early and high mortality, homozygous mutant mice are not available from our colony. In some cases, the homozygote lifespan can be extended by adding crushed grain to the bottom of the cage and keeping pups with a lactating female. As heterozygotes are indistinguishable phenotypically from wild type mice, they must be identified by a PCR based genotyping assay.

Additional Breeding and Husbandry Support

Appearance

- black, ataxic, tremors
- Related Genotype: a/a Rora<sup>59</sup>/Rora<sup>59</sup>

- black, unaffected
- Related Genotype: a/a +/- or a/a Rora<sup>59</sup>/+

Citation

When using the Rora<sup>59</sup> mouse strain in a publication, please cite the originating article(s) and include JAX stock #002651 in your Materials and Methods section.

Facility Barrier Levels Descriptions

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

Pricing & Availability

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

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<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or Wild-type for Rora&lt;sg&gt;</td>
<td>$2,595.00</td>
</tr>
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</table>

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a Dedicated Supply for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

Payment Terms and Conditions

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered
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