Overview

This recessive spontaneous single amino acid substitution in the myosin motor domain results in the head tossing and abnormal gait commonly found in Myo7a mutants.
**GENETIC OVERVIEW**

**Genetic Background**

**Generation**

**Myo7a**

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<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tr>
<td>Spontaneous (Not Specified)</td>
<td>Myo7a</td>
<td>myosin VIIA</td>
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**RESEARCH APPLICATIONS**

**Neurobiology Research**

**Sensorineural Research**

**BASE PRICE**

Starting at:

$2,854.50 Domestic price Cryo Recovery

**Important Note**

This bankstock may still be segregating for the Gata1<sup>tm6Sho</sup> mutation

**Detailed Description**

Mice homozygous for Myo7a<sup>sh1-13J</sup> display extensive head tossing and some head shaking and head bobbing. Their gait can be lower to the ground than normal with the feet held wider apart and the tail often held aloft. They also have an increased tendency to move backward. Circling behavior has not been noted and homozygotes can reproduce and live a normal lifespan.

**Development**

**Control Suggestions**

**Selected References**

**Genetics**
Genotyping Protocols
Sanger sequencing: Myo7a
Genotyping resources and troubleshooting

Breeding Considerations
Due to their circling and head tossing behavior, homozygous males should not be present with the pups and heterozygous females are better mothers than are homozygous females.

Additional Breeding and Husbandry Support
Mating System
Backcross-Intercross
homozygous female x BALB/cJ male then intercross of the obligate heterozygous offspring

Citation
When using the C.Cg-Myo7a<sup>sh1-13J</sup>/GrsrJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #022311 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level 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/PRODUCT</th>
<th>DESCRIPTION</th>
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<tr>
<td>Cryorecovery - Domestic Pricing</td>
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All

By Allele

By Gene

By Collection

All Related Strains