

## DBA/2J-Grid2<sup>ho-4J</sup>/J

Stock No: 000548 | hotfoot 4 Jackson

 Coisogenic, Spontaneous Mutation

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

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## GENETIC OVERVIEW

Genetic Background

Generation

*Grid2<sup>ho-4J</sup>*

**Alele Type**

Spontaneous

**Gene Symbol**

*Grid2*

**Gene Name**

glutamate receptor, ionotropic, delta 2

VIEW GENETICS

## RESEARCH APPLICATIONS

Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

## BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

## Details

### Detailed Description

Glutamate receptor delta2 (*Grid2*) is selectively expressed in Purkinje cells and plays a crucial role in cerebellar functions. Hotfoot mutations of *Grid2* exhibit ataxia and impaired locomotion associated with cerebellar Purkinje cell abnormalities and loss. Ataxia in the hotfoot mouse (*Grid2*<sup>ho-4J</sup>) is caused by a deletion in the delta2 receptor gene removing the N-terminal 170 amino acids of the delta2 receptor.

### Control Suggestions

## Genetics

### *Grid2*<sup>ho-4J</sup>

## Disease/Phenotype

### Disease Terms

### Research Areas By Phenotype

### Mammalian Phenotype Terms by Genotype

### References

## Technical Support

## Genotyping Protocols

[Genotyping resources and troubleshooting](#)

## Breeding Considerations

Females homozygous for *Grid2*<sup>ho-4J</sup> tend to be poor breeders. Males homozygous for *Grid2*<sup>ho-4J</sup> are fertile although males of the original *Grid2*<sup>ho</sup> mutation are sterile.

## Additional Breeding and Husbandry Support

### Appearance

dilute brown

Related Genotype: *a/a*, *Myo5*<sup>d</sup>/*Myo5*<sup>d</sup>, *Tyrp1*<sup>b</sup>/*Tyrp1*<sup>b</sup>

### Citation

When using the hotfoot 4 Jackson mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #000548 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



Cryo  
Recovery

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

## Domestic | International

Pricing effective for USA, Canada and Mexico shipping destinations

### CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Heterozygous for <i>Grid2</i> <ho-4J>	\$2,854.50

### RELATED PRODUCTS AND SERVICES

<a href="#">Frozen Mouse Embryo</a>	DBA/2J- <i>Grid2</i> <ho-4J>/J Frozen Embryos	\$2595.00
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## 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 are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. **Therefore, we cannot guarantee a strain's phenotype will meet all expectations.** To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project. We do not guarantee [breeding performance](#) and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

### Terms Of Use

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#### LICENSING INFORMATION

Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)

### Related Strains

All

By Allele

By Gene

By Collection






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