

**B6N.129(Cg)-Homer1<sup>tm1Mhd</sup>/PfwJ**

Stock No: **023312**

 Congenic, Targeted Mutation

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

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Donating Investigator

Paul Worley, Johns Hopkins University School of Medic

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## GENETIC OVERVIEW

Genetic Background

Generation

*Homer1<sup>tm1Mhd</sup>*

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

*Homer1*

homer scaffolding protein 1

VIEW GENETICS

## RESEARCH APPLICATIONS

Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

## BASE PRICE

Starting at:

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## Details

### Detailed Description

These *Homer1* KO mice lack exon 2 of homer homolog 1 (*Homer1*) gene, abolishing gene expression. HOMER1 is a postsynaptic density scaffolding protein expressed in the central nervous system, as well as skeletal muscle, where it mediates the formation of large macromolecular complexes and regulates group 1 metabotropic glutamate receptor function. Mice that are homozygous for this allele are viable and fertile. These mice exhibit myopathy characterized by decreased muscle fiber cross-sectional area and decreased skeletal muscle force generation. They display mild somatic growth retardation, poor motor coordination, enhanced sensory reactivity and learning deficits, and an increase in sensitivity to cocaine-induced locomotion and conditioned reward. They also display behavioral and neurochemical abnormalities consistent with the schizophrenia including decreased radial arm maze performance, impaired prepulse inhibition, enhanced behavioral despair, increased anxiety in a novel objects test, enhanced reactivity to novel environments, decreased instrumental responding for sucrose and enhanced methamphetamine-stimulated motor behavior.

### Development

### Control Suggestions

### Selected References

## Genetics

### *Homer1*<sup>tm1Mhd</sup>

## Disease/Phenotype

### Disease Terms

### Research Areas By Phenotype

### Mammalian Phenotype Terms by Genotype

- Technical Support

C O N T A C T   T E C H N I C A L   S U P P O R T

Genotyping Protocols

Standard PCR:[Homer1-Alternate 1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6N.129(Cg)-*Homer1<sup>tm1Mhd</sup>*/PfwJ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #023312 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.

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Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Heterozygous or wild-type for <i>Homer1</i> <tm1Mhd>	\$2,854.50

RELATED PRODUCTS AND SERVICES

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#### LICENSING INFORMATION

Phone: 207-288-6470

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

### Related Strains

All

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By Gene

By Collection



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