

**B6.129-Gria1<sup>tm5Rlh</sup>/J**Stock No: **012612** 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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performance of a number of other measures of motivated performance are unaffected. These mice may be useful in studies of normal and maladaptive forms of motivated behavior (e.g. addiction and eating disorders).

### Donating Investigator

Richard L Haganir, Johns Hopkins University School of Medicine

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## GENETIC OVERVIEW

**Genetic Background****Generation***Gria1<sup>tm5Rlh</sup>***Alele Type**

Targeted (Not Applicable)

**Gene Symbol***Gria1***Gene Name**

glutamate receptor, ionotropic, AMPA1 (alpha 1)

[VIEW GENETICS](#)

## RESEARCH APPLICATIONS

Neurobiology Research

[VIEW ALL RESEARCH APPLICATIONS](#)

## BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W   P R I C E   L I S T

### Details

#### Detailed Description

The serine 831 phosphorylation site was mutated to alanine in this *Gria1* (glutamate receptor, ionotropic, AMPA1 (alpha 1)) targeted mutation strain. Normal GRIA1 protein expression is replaced by the mutant form in the brain. Normal basal synaptic transmission and plasticity are seen in young (3 week old) and adult (more than 3 month old) mice. Appetitive incentive learning is defective in these mice, but performance of a number of other measures of motivated performance are unaffected. These mice may be useful in studies of normal and maladaptive forms of motivated behavior (e.g. addiction and eating disorders).

#### Development

#### Selected References

### Genetics

#### *Gria1*<sup>tm5RIh</sup>

### Disease/Phenotype

#### Disease Terms

#### Research Areas By Phenotype

#### Mammalian Phenotype Terms by Genotype

#### References

## Technical Support

### CONTACT TECHNICAL SUPPORT

#### Genotyping Protocols

Standard PCR: [Gria1](#)

[Genotyping resources and troubleshooting](#)

#### Breeding Considerations

When maintained as a live colony, heterozygotes or homozygotes may be bred.

[Additional Breeding and Husbandry Support](#)

#### Citation

When using the B6.129-*Gria1*<sup>tm5Rlh</sup>/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #012612 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>Gria1</i> <tm5Rlh>	\$2,854.50

## 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.

## THE JACKSON LABORATORY'S GENOTYPE PROMISE

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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Q U E S T I O N S   A B O U T   T E R M S   O F   U S E

#### ADDITIONAL USE RESTRICTIONS APPLY

[Use of MICE by companies or for-profit entities requires a license prior to shipping.](#)

#### 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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