

B6.129X1-Gad2^{tm1Bae}/J

Stock No: 003654 | B6-GAD65-

 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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of epilepsy.

Donating Investigator

Steinunn Baekkeskov, UCSF

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GENETIC OVERVIEW

Genetic Background

Generation

Gad2^{tm1Bae}

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Gad2

glutamic acid decarboxylase 2

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

Gad2-null mice are viable and fertile. Gross appearance is similar to wildtype littermates; brain weight is unaffected, as is cytoarchitecture. Starting as early as 12 weeks of age, homozygous-null mice develop stress-generated seizures induced by cage lid removal and other routine handling. This epileptic syndrome results in increased mortality with 70% of mice failing to survive to 7 months of age.

Other phenotypic observations

- * defect in the plasticity of the visual cortex during development
- * increased anxiety-like responses in open field and elevated zero maze assays
- * diminished response to anxiolytics (anti-anxiety agents)
- * Defect in the ability to sustain maximum gamma-aminobutyric acid release during stimulation

Genetic background influences this strain's phenotype. Homozygous-null mice on a mixed NOD,129 background exhibit a higher incidence of apparently less severe seizures than mice on a B6,129 background (also see Stock No. 003653).

Development

Control Suggestions

Genetics

Gad2^{tm1Bae}

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: [Gad2 STD PCR](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

The expected coat color is black.

[Additional Breeding and Husbandry Support](#)

Appearance

black

Related Genotype: *a/a*

Citation

When using the B6-GAD65- mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #003654 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
Cryo Recovery	Heterozygous or Wild-Type for Gad2<tm1Bae>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

B6.129X1-Gad2^{tm1Bae}/J Frozen Embryos

\$2595.00

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.

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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

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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