

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

Stock No: 003653 | NOD-GAD65-

 Targeted Mutation

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higher incidence of apparently less severe seizures than mice with this knock-out on a B6.129 background. They are suitable for use in applications related to the study of epilepsy.

Donating Investigator

Steinunn Baekkeskov, UCSF

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GENETIC OVERVIEW

Genetic Background

Generation

Gad2^{tm1Bae}

Allele Type

Targeted (Null/Knockout)

Gene Symbol

Gad2

Gene Name

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.

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. 003654).

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](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

This strain originated on a B6,129 background. It is maintained as a heterozygote on a NOD/LtJ background.

[Additional Breeding and Husbandry Support](#)

Citation

When using the NOD-GAD65- mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #003653 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

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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

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All

By Allele

By Gene

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