

STOCK *Neurog1^{tm1And}* /J

Stock No: 017306

 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

David J Anderson, California Institute of Technology, HHMI

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GENETIC OVERVIEW

Genetic Background

Generation

Neurog1^{tm1And}

Alele Type

Targeted (Reporter,
Null/Knockout)

Gene Symbol

Neurog1

Gene Name

neurogenin 1

VIEW GENETICS

RESEARCH APPLICATIONS

Developmental Biology 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

In this strain, a green fluorescent protein (GFP) sequence fused to a neomycin resistance (neo) cassette replaces the coding exon of the neurogenin 1 (*Neurog1*) gene, abolishing gene function. Heterozygotes are viable and fertile. NEUROG1 is a neural-specific basic helix-loop-helix (bHLH) transcription factor involved in neurogenesis. NEUROG1 is also required for the formation of TrkA-expressing sensory neurons in the dorsal root ganglia that are involved in sensing pain, itch and temperatures. NEUROG1 is involved in neurogenesis and neuronal differentiation in the spinal cord and specific regions in the brain. In this strain, homozygotes lacking NEUROG1 fail to generate the proximal subset of cranial sensory neurons, such as neurons in the trigeminal, vestibulo-cochlear, superior, and jugular ganglia. These homozygous pups die within a day of birth due to inability to feed. GFP does not produce a fluorescent signal. These mice may be useful for studying neurogenesis in many parts of the nervous system.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Neurog1^{tm1And}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Separated PCR:[Neurog1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, heterozygous mice may be bred to wildtype mice from the colony or to C57BL/6J inbred mice (Stock No. [000664](#)). Homozygous mice die within a day of birth due to inability to feed.

[Additional Breeding and Husbandry Support](#)

Citation

When using the STOCK *Neurog1^{tm1And}/J* mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #017306 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 wildtype for <i>Neurog1</i> <tm1And>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	STOCK <i>Neurog1</i> <tm1And>/J	\$2595.00
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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

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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

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