

STOCK *Aspa^{nur7}* /J

Stock No: 008607

 Chemically Induced Mutation

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

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and may be useful in studying the axonal pathology caused by central nervous system myelin defects.

Donating Investigator

Brian Popko, University of Chicago

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GENETIC OVERVIEW

Genetic Background

Generation

Aspa^{nur7}

Alele Type

Chemically induced (ENU)

Gene Symbol

Aspa

Gene Name

aspartoacylase

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

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

Mice homozygous for this ENU-induced mutation, the neurological 7 (*nur7*) allele of *Aspa* (*Aspa^{nur7}*), are viable and fertile, although the donating investigator reports homozygotes are poor breeders. The *Aspa^{nur7}* mutation encodes a Q193X transition that generates a nonsense codon and results in a predicted 120 amino acid truncation of the protein. While mutant *Aspa* mRNA expression is reduced by 40% (compared to wildtype), no truncated *Aspa* protein expression is reported in homozygous oligodendrocytes or brain tissue. Homozygous mice display early-onset spongy degeneration of central nervous system myelin with increased NAA levels similar to that observed in Canavan disease; an *Aspa*-deficiency-induced fatal childhood autosomal recessive leukodystrophy. Homozygous mice are easily distinguished at 21 days of age by their small body size and a wide-based ataxic gait. Neurological disease progresses with age to tremors and seizures. These *Aspa^{nur7}* mutant mice may be useful in studying the axonal pathology caused by central nervous system myelin defects.

Development

Control Suggestions

Selected References

Genetics

Aspa^{nur7}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

[- 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

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, heterozygous mice may be bred. The donating investigator reports that homozygous mice are poor breeders.

[Additional Breeding and Husbandry Support](#)

Citation

When using the STOCK *Aspa^{nur7}* /J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #008607 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 for <i>Aspa^{nur7}</i> >	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

STOCK Aspa<nur7>/J Frozen Embryo

\$2595.00

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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

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

Related Strains

All

By Allele

By Gene

By Collection



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