

MK; B6-*Slc12a2*^{sy-ns} /J

Stock No: **002757** | no syndactylism

 Spontaneous Mutation

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

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GENETIC OVERVIEW

Genetic Background

Generation

Slc12a2^{sy-ns}

Allele Type

Gene Symbol

Gene Name

Spontaneous

Slc12a2

solute carrier family 12, member 2

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

Sensorineural Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

Details

Detailed Description

Mice homozygous for the shaker with no syndactylism spontaneous mutation ($Slc12a2^{sy-ns}$) is allelic with the original radiation-induced shaker-with-syndactylism mutation (sy). Homozygous mutant mice exhibit deafness and balance defects but have a normal foot morphology. Two other spontaneous alleles of sy , fused phalanges and fused phalanges 2 Jackson, do not affect hearing or behavior. Tests for allelism among mice with four different mutant alleles at the shaker-with-syndactylism locus (sy , sy^{fp} , sy^{fp-2J} , and $Slc12a2^{sy-ns}$) indicate that sy is a deletion including at least two genes associated with distinct phenotypes. Mice homozygous for sy have syndactylous feet and other skeletal malformations, are deaf, and exhibit abnormal behavior characteristic of vestibular dysfunction. Complementation test results indicate that sy , sy^{fp} and sy^{fp-2J} are alleles of the same gene, but that $Slc12a2^{sy-ns}$ is an allele of a different gene.

Development

Control Suggestions

Genetics

$Slc12a2^{sy-ns}$

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

Sanger sequencing: [Slc12a2](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Although most homozygous females breed, when maintaining a live colony, heterozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

Appearance

black, circling

Related Genotype: $ala\ Slc12a2^{sy-ns} / Slc12a2^{sy-ns}$

agouti, circling

Related Genotype: $A/?\ Slc12a2^{sy-ns} / Slc12a2^{sy-ns}$

agouti, unaffected

Related Genotype: $A/?\ +/?$ or $A/?\ Slc12a2^{sy-ns} / +$

black, unaffected

Related Genotype: $ala\ Slc12a2^{sy-ns} / +$ or $ala\ +/?$

Citation

When using the no syndactylism mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #002757 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

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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 Slc12a2<sy-ns>	\$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

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Phone: 207-288-6470
 Email: TechTran@jax.org

Related Strains

- All
- By Allele
- By Gene
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