The Jackson Laboratory

FVB/NJ-*Scn8a* ^{m10J}/GrsrCx

Stock No: **023609**

Coisogenic, Spontaneous Mutation

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for your studies.

This *Scn8a* spontaneous mutant has a single amino acid substitution, R914S, which causes a phenotype as severe as that caused by null alleles.

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GENETIC OVERVIEW

Genetic Background

001800 FVB/NJ

Generation

Scn8a^{m10J}

Allele Type	Gene Symbol	Gene Name
Spontaneous	*Scn8a*	sodium channel, voltage-gated, type VIII, alpha

VIEW GENETICS

RESEARCH APPLICATIONS

VIEW ALL RESEARCH APPLICATIO

Details

Detailed Description

Homozygotes can be identified by 2 weeks of age by smaller body size, ataxia, and tremor. They have progressive paralysis and die by 21 to 24 days of age. Schroeder *et al*. reported that no demyelination was evident in nerve cross sections, and conduction velocities were not different from age matched littermate controls at postnatal day 16. Male and female homozygous mutants display similar disease onset and progression. Molecular characterization showed this to be a C to A transversion causing an arginine to serine substitution in amino acid 914, which is in the ion pore region.

Development

Control Suggestions

Selected References

Genetics

Scn8a^{m10J}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

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Genotyping Protocols
Genotyping resources and troubleshooting

Mating System
Heterozygote x Heterozygote

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