

B6.Cg-Sh3tc2^{m1J}/GrsrRwb

Stock No: 021074

 Congenic, Spontaneous Mutation

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conduction. This strain may be useful for studying peripheral neuropathy and Charcot-Marie-Tooth disease type 4C.

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GENETIC OVERVIEW

Genetic Background

Generation

+N3

(2019-07-26 00:00:00)

Sh3tc2^{m1J}

Alele Type

Spontaneous (Not
Applicable)

Gene Symbol

Sh3tc2

Gene Name

SH3 domain and tetratricopeptide repeats 2

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

Cardiovascular Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$1.00 Domestic price for female

V I E W P R I C E L I S T

Details

Detailed Description

Sh3tc2 (SH3 domain and tetratricopeptide repeats 2) is expressed in Schwann cells of peripheral nerves and encodes a protein that functions in myelination. Mutations in SH3TC2 are associated with Charcot-Marie-Tooth disease type 4C. Mice carrying this spontaneous nonsense (glutamine to a stop codon at position 71) allele exhibit thin myelin and supernumerary Schwann cell processes in peripheral motor and sensory nerves and reduced nerve conduction velocities by 3 months of age. Mice homozygous for the mutation are viable and fertile.

Development

Control Suggestions

Genetics

Sh3tc2^{m1J}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

[Genotyping resources and troubleshooting](#)

Breeding Considerations

While maintaining a live colony, these mice are bred as heterozygotes.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6.Cg-*Sh3tc2*^{m1J}/GrsrRwb mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #021074 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [A6 \(Intermediate\)](#)

Pricing & Availability



Availability
Varies

Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE			
AGE	SEX	GENOTYPE	PRICE
Approx 4-8 weeks	Female	Heterozygous for <i>Sh3tc2</i> ^{m1J}	\$1.00
	Male	Heterozygous for <i>Sh3tc2</i> ^{m1J}	\$1.00
Approx 4-8 weeks	Female	Homozygous for <i>Sh3tc2</i> ^{m1J}	\$1.00
	Male	Homozygous for <i>Sh3tc2</i> ^{m1J}	\$1.00
Approx 4-8 weeks	Female	Wild-type for <i>Sh3tc2</i> ^{m1J}	\$1.00
	Male	Wild-type for <i>Sh3tc2</i> ^{m1J}	\$1.00

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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

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

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TOMORROW'S CURES



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Yes No