

B6N.129S4(129S6)-Sst^{tm1Ute}/J

Stock No: 008117

 Congenic, 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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useful in studies of gastric homeostasis, learning and memory and endocrinology.

Donating Investigator

Ute Hochgeschwender, Central Michigan University

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GENETIC OVERVIEW

Genetic Background

Generation

Sst^{tm1Ute}

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Sst

somatostatin

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

Endocrine Deficiency Research

Internal/Organ Research

Cancer Research

Immunology, Inflammation and Autoimmunity 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 that are homozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. No gene product (mRNA or protein) is detected by Northern blot, *in situ* hybridization or radioimmunoassay analysis of brain tissue. Homozygotes exhibit increased baseline plasma growth hormone, corticosterone and total ghrelin levels compared to wildtype. Mutant mice have impaired motor performance ability. Somatostatin-deficient mice have enlarged stomachs with an increased number of parietal cells and hyperchlorhydria. Hippocampal neprilysin activity is diminished. Compared to wildtype controls, amyloid beta 42 peptides levels are elevated in the hippocampus. This mutant mouse strain may be useful in studies of gastric homeostasis, learning and memory and endocrinology.

Development

Control Suggestions

Selected References

Genetics

Sst^{tm1Ute}

Disease/Phenotype

Disease Terms

[+ Research Areas By Phenotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

[- Technical Support](#)

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR:[Sst](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6N.129S4(129S6)-*Sst^{tm1Ute}*/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #008117 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

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

B6N.129S4(129S6)-Sst<tm1Ute>/J Frozen Embryo

\$2595.00

PAYMENT TERMS AND CONDITIONS

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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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[General Terms and Conditions](#)

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LICENSING INFORMATION

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Email: TechTran@jax.org[Related Strains](#)

All

By Allele

By Gene

By Collection




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