The Jackson Laboratory

B6.Cg-*H2-K*^{bm1} Tg(GUSB)4Sly/SndsJ

Stock No: **006558**

Chemically Induced Mutation, Congenic, Major Histocompatibility Congenic, Transgenic

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

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mutant mouse strain may be useful in studies of lysomal storage diseases and mucopolysaccharidosis VII (Sly syndrome).

Donating Investigator

Brian Soper, The Jackson Laboratory

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GENETIC OVERVIEW

Genetic Background	Generation

H2-K^{bm1}

Allele Type	Gene Symbol	Gene Name
Spontaneous	*H2-K*	histocompatibility 2, K region

Tg(GUSB)4Sly

Allele Type

Transgenic (Inserted expressed sequence, Humanized sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools
Metabolism Research

VIEW ALL RESEARCH APPLICATION

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

Mice that are homozygous for this transgene and the *Gusb*^{mps} allele have approximately 20-fold higher beta-glucuronidase enzyme activity than wildtype controls. Distribution of human enzyme activity throughout various tissues mimics the endogenous mouse enzyme activity pattern. Of note, mice homozygous for both the transgene and the *Gusb*^{mps} allele do not exhibit an accumulation of undegraded glycosaminoglycans. These transgenic mice do not carry the *Gusb*^{mps} allele. Mice that are hemizygous for this transgene are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. This mutant mouse strain may be useful in studies of lysomal storage diseases and mucopolysaccharidosis VII (Sly syndrome).

Development

Expression Data

Control Suggestions

Selected References

Genetics

H2-K^{bm1}

Tg(GUSB)4Sly

Disease/Phenotype

- Disease Terms
- Research Areas By Phenotype
- Mammalian Phenotype Terms by Genotype
- References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR:Tg(GUSB)4Sly
QPCR:Tg(GUSB)4Sly
Genotyping resources and troubleshooting

Breeding Considerations

When maintaining a live colony, these mice can be bred as hemizygotes. The Donating Investigator maintained the colony by breeding mice homozygous for the transgene.

Additional Breeding and Husbandry Support

Citation

When using the B6.Cg-*H2-K*^{bm1} Tg(GUSB)4Sly/SndsJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #006558 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	Homozygous for H2-K<bm1> and Hemizygous for Tg(GUSB)4Sly	$2,854.50

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.

Terms Of Use

TERMS OF USE

General Terms and Conditions

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Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

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Did you find what you were looking for?

Yes No