

C.129-Stat5b^{tm1Hwd}/J

Stock No: **007810**

 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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homozygotes are smaller than wildtype. Some homozygotes develop obesity at approximately 9 weeks of age with large testicular fat pads and increased abdominal fat. This mutant mouse strain may be useful in studies of mammary gland development, lactogenesis and immunological intracellular signal transduction.

Donating Investigator

Michael Tomasson, Washington University School of Medicine

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GENETIC OVERVIEW

Genetic Background

Generation

Stat5b^{tm1Hwd}

Allele Type

Targeted (Null/Knockout)

Gene Symbol

Stat5b

Gene Name

signal transducer and activator of transcription 5B

VIEW GENETICS

RESEARCH APPLICATIONS

Endocrine Deficiency Research

Developmental Biology 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 heterozygous 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 and immunoblot analysis of liver, spleen, mammary gland, thymus, kidney or skeletal muscle from homozygous animals. Levels of the closely related *Stat5a* gene products (mRNA and protein) are unaffected in thymus and spleen. At 4 - 5 weeks of age, male homozygotes are smaller in size and have a reduced body weight (27% lighter than wildtype controls) when compared to wildtype. Female homozygotes exhibit spontaneous abortion between day 8 and 17 of pregnancy and have impaired lactation. Pups (independent of genotype) born to heterozygous females have higher perinatal death than pups born to wildtype females. Some homozygotes have pale and enlarged livers. Homozygotes have less adipose tissue than wildtype controls, exhibit abnormal gene expression in liver, reduced insulin-like growth factor 1 (IGF-1) plasma levels, and disrupted urine chemistry. Male homozygotes have elevated growth hormone plasma levels. Some homozygotes develop obesity at approximately 9 weeks of age with large testicular fat pads and increased abdominal fat. Hair growth is impaired. Homozygotes on the C57BL/6 genetic background (not available from The Jackson Laboratory) have diminished peripheral splenocyte responses to mitogenic stimulation and reduced activated splenocyte proliferation with diminished NK cell number and activity. This mutant mouse strain may be useful in studies of mammary gland development, lactogenesis and immunological intracellular signal transduction.

Development

Control Suggestions

Selected References

Genetics

Stat5b^{tm1Hwd}

– 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

Standard PCR:[Stat5b](#)

Standard PCR:[Stat5b](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these mice are bred as heterozygotes. Male homozygotes have a growth defect and female homozygotes have a milk production defect.

[Additional Breeding and Husbandry Support](#)

Citation

When using the C.129-*Stat5b*^{tm1Hwd}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #007810 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



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DomesticInternational

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or Wild-type for Stat5b<tm1Hwd>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	C.129-Stat5b<tm1Hwd>/J	\$2595.00
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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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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

- All
- By Allele
- By Gene
- By Collection



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Yes No