The Jackson Laboratory

B6.129(Cg)-*Snai3* $^{tm1.1Jhws}$/J

Stock No: **027276** | Snai3 ^{FL}

Congenic, Targeted Mutation

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

PLACE ORDER

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Donating Investigator

John H. Weis, University of Utah

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GENETIC OVERVIEW

Genetic Background	Generation

Snai3$^{tm1.1Jhws}$

Allele Type	Gene Symbol	Gene Name
Targeted (Conditional ready (e.g. floxed))	*Snai3*	snail family zinc finger 3

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools
Cell Biology Research
Immunology, Inflammation and Autoimmunity Research

VIEW ALL RESEARCH APPLICATIO

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

Snai3$^{FL/FL}$ floxed mice possess *loxP* sites flanking exon 1 of the snail family zinc finger 3 (*Snai3*) gene. SNAI3 is a transcriptional regulator that is highly expressed in double positive T cell lineages in skeletal muscle, cardiac muscle, and thymus, and in CD8+ T cells in the periphery. Expression is also seen in the kidney, liver and spleen. Mice that are homozygous for this allele are viable and fertile. When bred to mice that express tissue-specific Cre recombinase, resulting offspring will have exon 1 deleted in the *cre*-expressing tissues. Deletion of this gene in either T cell lineages or the entire animal had little effect upon animal development or T cell lineages/functions.

When bred to mice carrying one *Snai2* KO allele from B6;129S1-*Snai2*^{tm2Grid}/J mice (Stock No. 010722) and subsequently bred to B6.Cg-Tg(Vav1-cre)A2Kio/J mice (Stock No. 008610) expressing Cre Recombinase in hematopoietic cells and their progenitors, and resulting cDKO mice exhibit severe impairment in both B and T cell generation. They also demonstrate an autoimmune phenotype manifested by the production of high levels of autoantibodies as early as 3 weeks of age and die by 30 days after birth. cDKO mice also display lymphopenia, alopecia, dermatitis, and runting.

Development

Control Suggestions

Selected References

Genetics

Snai3$^{tm1.1Jhws}$

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols
Standard PCR:Snai3
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 Snai3^{FL} mouse strain in a publication, please cite the originating article(s) and include JAX stock #027276 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 | Internatio

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or wildtype for Snai3<tm1.1Jhws>	$2,854.50

RELATED PRODUCTS AND SERVICES		
Frozen Mouse Embryo	B6.129(Cg)-Snai3<tm1.1Jhws>/J Frozen Embryos	$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.

Terms Of Use

TERMS OF USE

General Terms and Conditions

QUESTIONS ABOUT TERMS OF USE

LICENSING INFORMATION

Phone: 207-288-6470
Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection

Choose other country or region

Did you find what you were looking for?

Yes No