The Jackson Laboratory

B6.129S6(Cg)-*Id3* $^{tm2.1Zhu}$ /J

Stock No: **024496** | Id3 ^{f}

Congenic, Targeted Mutation

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

PLACE ORDER

Email Download PDF Help

Donating Investigator

Yuan Zhuang, Duke University Medical Center

READ MORE +

GENETIC OVERVIEW

Genetic Background	Generation

Id3$^{tm2.1Zhu}$

Allele Type	Gene Symbol	Gene Name
Targeted (Conditional ready (e.g. floxed), No functional change)	*Id3*	inhibitor of DNA binding 3

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools
Cell Biology Research

VIEW ALL RESEARCH APPLICATIO

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

These *Id3*$^{f/f}$ mutant mice possess *loxP* sites flanking exons 1-2 of the inhibitor of DNA binding 3 (*Id3*) gene. ID3 is a dominant negative helix-loop-helix (H-L-H) protein. ID3 forms nonfunctional heterodimers with other HLH proteins, E-proteins in particular, and acts to inhibit the binding of DNA to the other HLH protein. This gene is involved in the regulation of cell cycle progression and B-cell differentiation, and in mediating TCR signals during double positive (DP) to single positive (SP) selection. ID3 deficiencies have been implicated in the development of Sjogren's syndrome, a rheumatic autoimmune disease characterized by persistent dry eyes and mouth, lymphocyte infiltrates in salivary gland, impaired thymocyte selection, and serum positive for multiple autoantibodies. ID3 has also been associated with the onset of Burkitt's lymphoma, a highly aggressive B-cell non-Hodgkin lymphoma. 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 exons 1-2 deleted in the *cre*-expressing tissues or cells.

For example, when bred to mice expressing a T lineage specific Cre recombinase, thymocyte maturation is impaired. These mice develop exocrinopathy starting at two months of age and exhibit high incidence of lymphocyte infiltration to salivary glands between eight and 12 months of age.

Development

Control Suggestions

Selected References

Genetics

Id3$^{tm2.1Zhu}$

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols
Standard PCR:Id3alternate3
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 Id3^{f} mouse strain in a publication, please cite the originating article(s) and include JAX stock #024496 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	Heterozygous for -Id3<tm2.1Zhu>	$2,854.50

RELATED PRODUCTS AND SERVICES		
Frozen Mouse Embryo	B6.129S6(Cg)-Id3<tm2.1Zhu>/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.

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