FVB;129-*Ada* ^{tm1Mw} Tg(PLFSADA)2465Rkmb/J

Stock No: **003297** | ada containing ADA minigene

Targeted Mutation, Transgenic

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

PLACE ORDER

2465. Transgenic ADA expression in the prenatal placenta and postnatal forestomach rescues the lethal phenotype of homozygous null mice, and the mice exhibit partial immune deficiency.

Donating Investigator

Dr. Michael R. Blackburn, Univ Texas Health Science Center

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GENETIC OVERVIEW

Genetic Background	Generation

Ada^{tm1Mw}

Allele Type	Gene Symbol	Gene Name
Targeted (Null/Knockout)	*Ada*	adenosine deaminase

Tg(PLFSADA)2465Rkmb

Allele Type
Transgenic (Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research
Metabolism Research

Developmental Biology Research
Internal/Organ Research

VIEW ALL RESEARCH APPLICATION

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

Mice homozygous for the *Ada*^{tm1Mw} targeted mutation die perinatally. They show defects in purine metabolism and develop liver cell degeneration. Death is most likely the result of accumulation of ADA precursors. In this strain (FVB;129-*Ada*^{tm1Mw} Tg(PLFSADA)2465Rkmb/J - Stock No. 003297), mice carry a transgene overexpressing ADA in both the placenta and forestomach. Double mutant mice homozygous for the null *Ada* allele live a normal lifespan displaying only a partial immune deficiency and developing less severe pulmonary inflammation.

Mice from the double mutant strain FVB,129- *Ada*^{tm1Mw} Tg(PLADA)4118Rkmb/J (Stock No. 003265) express ADA in the placenta alone. These mice are rescued from embryonic lethality, but die from severe respiratory distress by three weeks of age. These mice exhibit a severe combined immunodeficiency and develop a severe lung eosinopilia reminiscent of that seen in humans with asthma. Abnormalities are also found in the bone and kidney.

Development

Expression Data

Control Suggestions

Selected References

Genetics

- *Ada*^{tm1Mw}
- Tg(PLFSADA)2465Rkmb

Disease/Phenotype

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

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR:Ada
Standard PCR:Tg(PLADA)4118Rkmb, Tg(PLFSADA)2465Rkmb
Genotyping resources and troubleshooting

Breeding Considerations

Mice homozygous for the *Ada* allele die just after birth. In this strain, expression of the transgene rescues the lethality phenotype, although homozygous null *Ada* mice display some immune deficiency. While maintaining a live colony, these mice are bred as heterozygous for the *Ada* allele and hemizygous for the transgene.

Additional Breeding and Husbandry Support

Citation

When using the ada containing ADA minigene mouse strain in a publication, please cite the originating article(s) and include JAX stock #003297 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	Hemizygous or Non carrier for Tg(PLFSADA)2465Rkmb, Hemizygous or Non carrier forAda<tm1Mw>	$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

QUESTIONS ABOUT TERMS OF USE

ADDITIONAL USE RESTRICTIONS APPLY

Use of MICE by companies or for-profit entities requires a license prior to shipping.

LICENSING INFORMATION

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

Related Strains

All

By Allele

By Gene

By Collection

Leading the search for

TOMORROW'S CURES

Choose other country or region

Did you find what you were looking for?

Yes No