

**B6;129S1-Tirap<sup>tm1Medz</sup>/J**  
Stock No: **017629**

 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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of the toll-like receptor pathway involvement in innate and adaptive immune responses.

### Donating Investigator

Dr. Ruslan Medzhitov, Yale School of Medicine

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## GENETIC OVERVIEW

Genetic Background

Generation

*Tirap<sup>tm1Medz</sup>*

**Alele Type**

Targeted (Null/Knockout)

**Gene Symbol**

*Tirap*

**Gene Name**

toll-interleukin 1 receptor (TIR) domain-containing adaptor protein

VIEW GENETICS

## RESEARCH APPLICATIONS

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

*Tirap* (toll-interleukin 1 receptor (TIR) domain-containing adaptor protein), is a component of the toll-like receptor (TLR) signaling pathway that is associated with both innate and adaptive immune responses.

TIRAP-deficient mice respond normally to TLR5, TLR7, and TLR9 ligands, as well as to IL-1 and IL-18, but have defects in cytokine production and in activation of nuclear factor NF- $\kappa$ B and mitogen-activated protein kinases in response to lipopolysaccharide (a ligand of TLR4) and to bacterial lipoprotein (a ligand of TLR2). Homozygous *Tirap* mutant mice are born at expected Mendelian ratios and show no obvious gross abnormalities. A lack of expression has been confirmed in the spleen and macrophages.

#### Development

#### Control Suggestions

#### Selected References

### Genetics

#### *Tirap*<sup>tm1Medz</sup>

### Disease/Phenotype

#### Disease Terms

#### Research Areas By Phenotype

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

Separated PCR:[Tirapalternate1](#)

Probe:[Tirap Probe](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Heterozygotes or homozygotes may be bred.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6;129S1-*Tirap*<sup>tm1Medz</sup>/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #017629 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
<a href="#">Cryo Recovery</a>	Heterozygous or wildtype for Tirap<tm1Medz>	\$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.

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Q U E S T I O N S   A B O U T   T E R M S   O F   U S E

#### 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](mailto:TechTran@jax.org)

### [Related Strains](#)

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# TOMORROW'S CURES



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