

**B6N.129S6-Rnf128<sup>tm1.1Flv</sup> /J**

Stock No: **012770**

 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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Multiple defects in naive, helper and anergic T cell states affecting survival, proliferation and cytokine secretion are observed. This strain may be useful in studies of T cell anergy, oral tolerance to antigen, and autoimmune disease.

### Donating Investigator

Dr. Richard A. Flavell, Yale University School of Medicine

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## GENETIC OVERVIEW

Genetic Background

Generation

*Rnf128<sup>tm1.1Flv</sup>*

**Alele Type**

Targeted (Null/Knockout)

**Gene Symbol**

*Rnf128*

**Gene Name**

ring finger protein 128

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

Deletion of the RING finger domain in the X-linked *Rnf128* (ring finger protein 128; also called E3 ligase Grail) gene leads to a loss of T cell unresponsiveness (anergy) that mechanistically helps to maintain the inactivity of self-reactive lymphocytes. These targeted mutation mice additionally show hyperactivation of primary CD4<sup>+</sup> T cells which hyperproliferate *in vitro* in response to TCR (T cell receptor) stimulation alone or with concomitant anti-CD28 costimulation. Multiple defects in naive, helper and anergic T cell states affecting survival, proliferation and cytokine secretion are observed.

Homozygotes are viable, fertile and born at predicted Mendelian ratios. Major organs show no gross abnormalities or histological differences. Thymic development is unaffected with normal levels of thymocyte subsets. Absolute numbers of T and B cells, dendritic cells, macrophages, neutrophils and other differentiated cell lineages are unremarkable. This strain may be useful in studies of T cell anergy, oral tolerance to antigen, and autoimmune disease.

#### Development

#### Control Suggestions

#### Selected References

### Genetics

#### *Rnf128*<sup>tm1.1Flv</sup>

### Disease/Phenotype

#### Disease Terms

[+ Research Areas By Phenotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

## [- Technical Support](#)

### CONTACT TECHNICAL SUPPORT

#### Genotyping Protocols

Standard PCR:[Rnf128-Alternate 1](#)

[Genotyping resources and troubleshooting](#)

#### Breeding Considerations

When maintained as a live colony, animals homozygous or heterozygous/hemizygous for this X-linked mutation may be bred.

[Additional Breeding and Husbandry Support](#)

#### Citation

When using the B6N.129S6-*Rnf128*<sup>tm1.1Flv</sup>/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #012770 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	X linked – Females are Heterozygous and males are wildtype for Rnf128<tm1.1Flv>/J, 1 pair minimum	\$2,854.50
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## RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6N.129S6-Rnf128<tm1.1Flv>/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.

## Terms Of Use

### TERMS OF USE

[General Terms and Conditions](#)

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

All

By Allele

By Gene

By Collection



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