

**B6.129S2-Lag3<sup>tm1Doi</sup>/J**Stock No: **026644** **Congenetic, Targeted Mutation**

Live mice available in varying quantities. Ask Customer Service for details.

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### Donating Investigator

Robert Negrin, Stanford University School of Medicine

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## GENETIC OVERVIEW

### Genetic Background

### Generation

**N5+pN1F16**  
(2020-12-07 00:00:00)**Lag3<sup>tm1Doi</sup>**

### Allele Type

Targeted (Null/Knockout)

### Gene Symbol

*Lag3*

### Gene Name

lymphocyte-activation gene 3

[VIEW GENETICS](#)

## RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research

Research Tools

Cell Biology Research

Neurobiology Research

[VIEW ALL RESEARCH APPLICATIONS](#)

## BASE PRICE

Starting at:

\$278.00 Domestic price for female 4-week

V I E W   P R I C E   L I S T

### Details

#### Detailed Description

Exons 1-3 of lymphocyte-activation gene 3 (*Lag3*) have been replaced with a neomycin resistance gene in reverse orientation to the gene. The *Lag3* gene encodes a transmembrane protein expressed in stimulated T lymphocytes and activated natural killer cells. LAG-3 has been found to negatively regulate cellular proliferation, activation, and homeostasis of T cells, and plays a role in Treg suppressive function. LAG-3 deficiency on CD4, but not CD8 T cells, enhances the effect of graft-versus-host disease. Although homozygous-null mice lacking a functional *Lag3* gene appear normal in most respects, a difference is observed in the form of diminished natural killer cell activity.

#### Development

#### Control Suggestions

#### Selected References

### Genetics

#### *Lag3*<sup>tm1Doi</sup>

### Disease/Phenotype

#### Disease Terms

#### Research Areas By Phenotype

#### Mammalian Phenotype Terms by Genotype

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Separated PCR: Lag3 Alternate6

Genotyping resources and troubleshooting

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

When maintaining a live colony, these mice can be bred as homozygotes.

Additional Breeding and Husbandry Support

Mating System

Homozygote x Homozygote

Citation

When using the B6.129S2-Lag3<sup>tm1Doi</sup>/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #026644 in your Materials and Methods section.

Animal Health Reports

Facility Barrier Level Descriptions

AX12 (Maximum)

Pricing & Availability



Live mice available in varying quantities. Ask Customer Service for details.

Available

Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE

AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Homozygous for Lag3 <sup>tm1Doi</sup>	\$278.00
	Male	Homozygous for Lag3 <sup>tm1Doi</sup>	\$278.00

5 weeks	SEX	Homozygous for Lag3 <sup>tm1Doi</sup>	\$278.00
	Male	Homozygous for Lag3 <sup>tm1Doi</sup>	\$278.00
6 weeks	Female	Homozygous for Lag3 <sup>tm1Doi</sup>	\$278.00
	Male	Homozygous for Lag3 <sup>tm1Doi</sup>	\$278.00
7 weeks	Female	Homozygous for Lag3 <sup>tm1Doi</sup>	\$278.00
	Male	Homozygous for Lag3 <sup>tm1Doi</sup>	\$278.00
8 weeks	Female	Homozygous for Lag3 <sup>tm1Doi</sup>	\$278.00
	Male	Homozygous for Lag3 <sup>tm1Doi</sup>	\$278.00
9 weeks	Female	Homozygous for Lag3 <sup>tm1Doi</sup>	\$278.00
	Male	Homozygous for Lag3 <sup>tm1Doi</sup>	\$278.00
10 weeks	Female	Homozygous for Lag3 <sup>tm1Doi</sup>	\$278.00
	Male	Homozygous for Lag3 <sup>tm1Doi</sup>	\$278.00
11 weeks	Female	Homozygous for Lag3 <sup>tm1Doi</sup>	\$278.00
	Male	Homozygous for Lag3 <sup>tm1Doi</sup>	\$278.00
12 weeks	Female	Homozygous for Lag3 <sup>tm1Doi</sup>	\$278.00
	Male	Homozygous for Lag3 <sup>tm1Doi</sup>	\$278.00

## RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.129S2-Lag3 <sup>tm1Doi</sup> /J Frozen Embryo	\$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

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## 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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