B6.129S2-Lag3^tm1Daj/J

Stock No: 026644

Congenic, Targeted Mutation

REPOSITORY LIVE

PLACE ORDER

3–6 week lead time for most orders depending on quantity and age range requested

Overview

Lag3 KO mice are useful when studying cellular proliferation, activation, and homeostasis of T cells, and plays a role in Treg suppressive function.

Donating Investigator

Robert Negrin, Stanford University School of Medicine
## GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td></td>
<td>N5×pN1F89</td>
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<tr>
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<td>(2018-10-23 00:00:00)</td>
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### Lag3<sup>Im1Doi</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Lag3</td>
<td>lymphocyte-activation gene 3</td>
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## RESEARCH APPLICATIONS

- Immunology, Inflammation and Autoimmunity Research
- Research Tools
- Cell Biology Research
- Neurobiology Research

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## BASE PRICE

Starting at:

- $255.00 Domestic price for female

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## 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.

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## Development

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## Control Suggestions

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## Selected References

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## Genetics
Genotyping Protocols
MELT: \textit{Lag}^{3\text{m1Dol}}\textsubscript{alternate3}
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-Lag\textsuperscript{3\text{m1Dol}}\textsubscript{alternate3} mouse strain in a publication, please cite the originating articles and include JAX stock #026644 in your Materials and Methods section.
Facility Barrier Level Descriptions
- AX12 (Maximum)

Pricing & Availability
3–6 week lead time for most orders depending on quantity and age range requested
Repository Live

Domestic
International
Pricing effective for USA, Canada and Mexico shipping destinations
Live Mouse
<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Homozygous for Lag3&lt;sup&gt;tm1Dei&lt;/sup&gt;</td>
<td>$255.00</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Lag3&lt;sup&gt;tm1Dei&lt;/sup&gt;</td>
<td>$255.00</td>
</tr>
</tbody>
</table>

**Related Products and Services**

Frozen Mouse Embryo $2,595.00 per straw or vial

**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.

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**Terms of Use**

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

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Related Strains

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<th>By Allele</th>
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<td>By Collection</td>
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All Related Strains
ELLSWORTH FACILITY OFFICIALLY OPEN AND OPERATIONAL
Shipments have begun at our new facility, allowing increased access to JAX mouse models.

Leading the search for
TOMORROW'S CURES