B6;129S2-Lta<sup>tm1Dch/J</sup>

**Stock No:** 002257 | LT<sup>-</sup>

- Targeted Mutation

**CRYO RECOVERY**

**PLACE ORDER**

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

**Also Known As: LT<sup>-</sup>**

These Lta knock-out mice exhibit no morphologically detectable lymph nodes or Peyer’s patches.

**Donating Investigator**

Dr. David Chaplin, University of Alabama at Birmingham

**READ MORE +**

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**GENETIC OVERVIEW**

**Genetic Background**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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</thead>
<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Lta</td>
<td>lymphotoxin A</td>
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</tbody>
</table>

**VIEW GENETICS**

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**RESEARCH APPLICATIONS**

Cancer Research

Immunology, Inflammation and Autoimmunity Research

**VIEW ALL RESEARCH APPLICATIONS**

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**BASE PRICE**

Starting at:

$2,595.00 Domestic price Cryo Recovery
Detailed Description

Mice homozygous Ltai10ch targeted mutation are viable and fertile. Homozygous mutant mice show abnormal development of peripheral lymphoid organs with no detectable popliteal, inguinal, para-aortic, mesenteric, axillary, or cervical lymph nodes, and no detectable Peyer’s patches. Morphological changes in the spleen white pulp were accompanied by alterations in T and B cell content. CD4+ and CD8+ T cells counts in peripheral blood are normal but there is a four-fold increase in B cells. Neutrophil, monocyte, and platelet counts are normal. The thymus contains normal numbers of CD4+CD8+, CD4+, CD8+, and CD4+CD8− T cells. Splenic T cells develop normal MHC class I and class II-restricted alloreactive responses. Also known as tumor necrosis factor beta, Tnfb.

Development

Control Suggestions

Selected References

Genetics

Ltai10ch

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols
MELT: Ltai10ch
Genotyping resources and troubleshooting
Breeding Considerations
This strain is currently maintained by homozygous sibling matings. Expected coat color from breeding: White Bellied Agouti and Black

Additional Breeding and Husbandry Support

Appearance
white-bellied agouti
Related Genotype: A<sup>W</sup>/?

black
Related Genotype: a/a

Citation
When using the LT<sup>+</sup> mouse strain in a publication, please cite the originating article(s) and include JAX stock #002257 in your

Animal Health Reports
Materials and Methods section.
Facility Barrier Level Descriptions
Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

Pricing & Availability

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

<table>
<thead>
<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Homozygous for Lta&lt;tm1Dch&gt;</td>
<td>$2,595.00</td>
</tr>
</tbody>
</table>

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a Dedicated Supply for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

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.

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