B6;129S6-Adgrl1^tm15ud/J

Stock No: 006393 | CL1 KO

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.

Overview

Also Known As: CL1 KO

These adhesion G protein-coupled receptor L1 (Adgrl1, formerly Lphn1) knock-out mice are useful in studies of neurotransmission.

Donating Investigator

Dr. Thomas C. Sudhof, Stanford University School of Medicine
### Genetic Overview

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adgr1^tm1Sud</td>
<td></td>
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<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>Adgr1</td>
<td>adhesion G protein-coupled receptor L1</td>
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</tbody>
</table>

### Research Applications

**Neurobiology Research**

### Base Price

**Starting at:**

$2,854.50 Domestic price Cryo Recovery

### Details

**Detailed Description**

Mice homozygous for this targeted mutation are viable and fertile and do not display any gross physical abnormalities. Protein product from the targeted gene is not detected. Ca\(^{2+}\)-independent binding of alpha-latrotoxin (a neurotoxic component of black widow spider venom) to brain membranes is reduced by approximately 75%. Ca\(^{2+}\)-dependent binding is decreased by approximately 50%. A major reduction in alpha-latrotoxin-stimulated glutamate release is found in the presence and absence of Ca\(^{2+}\). This mutant mouse strain represents a model that may be useful in studies of neurotransmitter release mechanisms.

**Development**

**Control Suggestions**

**Selected References**
Genotyping Protocols
Standard PCR: Lphn1<sup>tm1Sud</sup>
Genotyping resources and troubleshooting

Breeding Considerations
When maintained as a live colony, either heterozygous females are bred with homozygous males, or heterozygotes are intercrossed. 
Homozygotes of both genders are both viable and fertile, but the females are very poor mothers.

Additional Breeding and Husbandry Support

Citation
When using the C57BL/6J mouse strain in a publication, please cite the originating article(s) and include JAX stock #006393 in your

Product Information
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
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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Email: TechTran@jax.org

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Related Strains

- All
- By Allele
- By Gene
- By Collection

All Related Strains
Leading the search for
TOMORROW'S CURES