



# B 6 . C~~L~~g~~a~~ / <sup>tg-1Rab</sup> / J

Stock No: 006337

 Congenic, Targeted Mutation



CRYO RECOVERY

P L A C E   O R D E R

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

## Overview

Homozygous *Lgals1* (originally *Lect14*) knock-out mice exhibit abnormal proportions of axon subpopulations and a larger number of myelinated axons in dorsal root ganglia and abnormal axon targeting to the caudal region of the olfactory bulb in neonates. This strain may be useful in studies relating to development of the nervous system.

### Donating Investigator

Dr. Elizabeth Robertson, University of Oxford

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## GENETIC OVERVIEW

Genetic Background

Generation

*Lgals1<sup>tm1Rob</sup>*

Allele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

*Lgals1*

lectin, galactose binding, soluble 1

VIEW GENETICS

## RESEARCH APPLICATIONS

Sensorineural Research

Developmental Biology Research

Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

## BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

### Details

#### Detailed Description

Mice that are homozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical abnormalities. No gene product (mRNA or protein) is detected by in situ hybridization of dorsal root ganglia and facial motoneuron nucleus and Western blot analysis of adult muscle tissue. Neonate mice homozygous for the mutation have abnormal axon targeting to the caudal region of the olfactory bulb. Mutant mice have fewer neural progenitor cells in the subventricular zone of the forebrain, although the number of apoptotic cells are not affected. Homozygotes exhibit hypoalgesia with a diminished nocifensive withdraw response to thermal testing. Immunohistological analysis of dorsal root ganglia from homozygotes reveals abnormal proportions of axon subpopulations and a larger number of myelinated axons. Mutant mice have a longer recovery of motoneuron function after experimental nerve injury. This mutant mouse strain represents a model that may be useful in studies of pain reception, motoneuron regeneration, axonal growth and guidance and development of the nervous system.

This strain was transferred from the collection of the Consortium for Functional Glycomics.

*It has been the experience of The Jackson Laboratory that these mice experience a transient period of hairloss between the ages of 2-6 weeks, with full hair growth returning by six weeks of age. Analysis of skin sections reveals a pathology similar to what is seen in C57BL/6 alopecia and movement of these alleles onto the C57BL/6J background may have exacerbated this phenotype.*

[+ Development](#)

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[+ Control Suggestions](#)

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[+ Selected References](#)

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[- Genetics](#)

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[+ \*Lgals1\*<sup>tm1Rob</sup>](#)

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[- Disease/Phenotype](#)

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[+ Disease Terms](#)

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[+ Research Areas By Genotype](#)

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[+ Mammalian Phenotype Terms by Genotype](#)

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[- Technical Support](#)

C H A T   O  F L I N E

C O N T A C T   T E C H N I C A L   S U P P O R T

## Genotyping Protocols

Standard PCR:[Lgals1<sup>tm1Rob</sup>](#)

[Genotyping resources and troubleshooting](#)

## Breeding Considerations

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

[Additional Breeding and Husbandry Support](#)

## Citation

When using the B6.Cg-[Lgals1<sup>tm1Rob</sup>](#)/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #006337 in your 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



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 Not-For-Profit & Academic Pricing

SERVICE	GENOTYPE	PRICE
Cryo Recovery	Heterozygous or wildtype for Lgals1<tm1Rob>	\$2,854.50

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.

### Related Products and Services

Frozen Mouse Embryo	<a href="#">B6.Cg-Lgals1&lt;tm1Rob&gt;/J Frozen Embryo</a>	\$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.

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### 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

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Email: [TechTran@jax.org](mailto:TechTran@jax.org)

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All

By Allele

By Gene

By Collection

All Related Strains



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# TOMORROW'S CURES

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