

C57BL/6J-*Lgi4*^{clp} /J

Stock No: 000974 | claw paw

 Coisogenic, Spontaneous Mutation

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

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GENETIC OVERVIEW

Genetic Background Generation

Lgi4^{clp}

Alele Type

Spontaneous
(Null/Knockout)

Gene Symbol

Lgi4

Gene Name

leucine-rich repeat LGI family, member 4

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

Details

Detailed Description

Homozygous *Lgi4^{clp}* mice show, at birth or immediately thereafter, a postural deformity of one or both forelimbs in which the fingers are flexed; the wrist and shoulder may also be flexed, and the elbow may be rotated inward (the "waiter's tip" posture). The joints can be moved passively, though much later in life the distal ones may become fixed, probably secondary to inactivity. Affected limbs are also weak. The most obvious defect on microscopic examination is a generalized delay in myelination, and a persistence of some axons and Schwann cells in the "promyelin" configuration throughout life, a state never seen in the normal peripheral nervous system. Peripheral axons appear to grow to a larger caliber before myelination begins in *Lgi4^{clp} /Lgi4^{clp}* mice than in +/? mice. In some animals, the ratio of myelin sheath thickness to axon caliber is reduced. The histopathological abnormalities are remarkably uniform throughout the entire peripheral nervous system and do not correlate well with the postural abnormalities and weakness, which are often much more severe in one forelimb than the other, and are always much more evident in the forelimbs than the hindlimbs

Development

Control Suggestions

Genetics

Lgi4^{clp}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR:[Lgi4](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, heterozygous mice may be bred to wildtype siblings, or to C57BL/6J inbred mice (Stock No. [000664](#)).

[Additional Breeding and Husbandry Support](#)

Citation

When using the claw paw mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #000974 in your Materials and Methods section.

Animal Health Reports

[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 PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or Wild-type for Lgi4<clp>	\$2,854.50

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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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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.

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Q U E S T I O N S A B O U T T E R M S O F U S E

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection





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TOMORROW'S CURES



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