

B6.129X1-*Lamc2*^{ieb}/DcrJ

Stock No: 025467

 Congenic, 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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Donating Investigator

Dr. Derry Roopenian, The Jackson Laboratory

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GENETIC OVERVIEW

Genetic Background

Generation

Lamc2^{ieb}

Alele Type

Spontaneous (Hypomorph)

Gene Symbol

Lamc2

Gene Name

laminin, gamma 2

VIEW GENETICS

RESEARCH APPLICATIONS

Developmental Biology Research

Immunology, Inflammation and Autoimmunity Research

Cell Biology Research

Dermatology Research

Research Tools

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W P R I C E L I S T

Details

Detailed Description

The *Lamc2* gene encodes for the gamma-2 subunit of laminin 5, which is an extracellular matrix glycoprotein found in cutaneous basement membranes. These mice carry a spontaneous mutation of *Lamc2* that arose on the 129X1 background and is a single retroviral insertion (murine leukemia virus long terminal repeat) in intron 18. Onset of progressive skin blistering disease in homozygotes on the congenic C57BL/6J background (N11) is approximately 13 weeks. Homozygotes backcrossed to C57BL/6J for 11 generations exhibit ulcerated lesions and tissue granulation in ear skin, which develops into deformed pinna. Thickened epidermis (hyperplasia) and subepidermal separation, with little to no inflammation, occurs in the skin of the footpads and tail.

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. This is the case for the strain above. The PLoS Genet. 2014 Feb 13;10(2):e1004068 publication described mice that were backcrossed to C57BL/6 for 11 generations (N11), while this strain has been backcrossed further to N13 to reduce the 129X1 congenic segment linked to the mutation. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.

Development

Control Suggestions

Selected References

Genetics

Lamc2^{ieb}

Disease/Phenotype

+ Disease Terms

+ Research Areas By Phenotype

+ Mammalian Phenotype Terms by Genotype

+ References

- Technical Support

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:[Lamc2](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these mice can be bred as homozygotes. Onset of progressive skin blistering disease in homozygotes on the congenic C57BL/6J background is approximately 13 weeks.

[Additional Breeding and Husbandry Support](#)

Mating System

Wild-type x Heterozygote

Heterozygote x Wild-type

Citation

When using the B6.129X1-*Lamc2*^{jeb}/DcrJ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #025467 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



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CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or wildtype for Lamc2<jeb	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.129X1-Lamc2<jeb>/DcrJ Frozen Embryo	\$2595.00
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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. 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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