

FVB.Cg-*Pde6b*⁺ *Lrrk1*^{tm1.1Mjff} *Tyr*^{c-ch} /J

Stock No: 022880

 Congenic, Spontaneous Mutation, Targeted 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:

Kuldip Dave, The Michael J. Fox Foundation

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GENETIC OVERVIEW

Genetic Background

Generation

Pde6b⁺

Alele Type

Not Applicable

Gene Symbol

Pde6b

Gene Name

phosphodiesterase 6B, cGMP, rod receptor, beta polypeptide

Tyr^{c-ch}

Alele Type

Spontaneous

Gene Symbol

Tyr

Gene Name

tyrosinase

Lrrk1^{tm1.1Mjff}

Alele Type

Targeted (Null/Knockout)

Gene Symbol

Lrrk1

Gene Name

leucine-rich repeat kinase 1

VIEW GENETICS

RESEARCH APPLICATIONS

Developmental Biology Research
Mouse/Human Gene Homologs
Neurobiology Research
Sensorineural Research
Dermatology Research

[VIEW ALL RESEARCH APPLICATIONS](#)

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

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[Details](#)

[Detailed Description](#)

These mice lack exons 24-29 of the leucine-rich repeat kinase 1 (*Lrrk1*) gene, abolishing gene function. LRRK1 is a gene homolog of *Lrrk2*, mutations of which have been associated with Parkinson's disease. LRRK1 regulates endosomal trafficking of the EGF receptor. On the C57BL/6 background, homozygous pups do not survive until weaning. To date, homozygotes have not been generated on the FVB background. Information will be added as it becomes available. These mice may be useful for studying the role of *Lrrk1* in the progression of Parkinson's Disease.

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. 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](#)

[Expression Data](#)

[Control Suggestions](#)

[Genetics](#)

[+ *Pde6b*⁺](#)

[+ *Tyr*^{c-ch}](#)

[+ *Lrrk1*^{tm1.1Mjff}](#)

[- 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:[Lrrk1](#)

Standard PCR:[Lrrk1](#)

Standard PCR:[Generic Pde6b Alternate1](#)

Probe:[Pde6b Probe](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

While maintaining a live colony, these mice are bred as heterozygous for the *Lrrk1*^{tm1.1Mjff} allele, both the *Pde6b*⁺ and *Tyr*^{c-ch} alleles are homozygous. The Repository has not tested homozygote matings, but will update breeding information as it becomes available.

[Additional Breeding and Husbandry Support](#)

Citation

When using the FVB.Cg-*Pde6b*⁺ *Lrrk1*^{tm1.1Mjff} *Tyr*^{c-ch} /J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #022880 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



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 wildtype for Lrrk1<tm1.1Mjff>	\$2,854.50

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