



# B6.Cg-Tg(Lrrk2)6Yue/J

Stock No: 012466

 Congenic, Transgenic



CRYO RECOVERY

PLACE ORDER

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

## Overview

These *FLAG-Lrrk2-WT* mice express a wild-type mouse leucine-rich repeat kinase 2 (*Lrrk2*) gene directed by its endogenous promoter/enhancer regions on a BAC transgene. These mice may be useful for studying normal function of LRRK2 function and the pathogenesis of Parkinson's disease.

### Donating Investigator

Zhenyu Yue, Mount Sinai School of Medicine

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## GENETIC OVERVIEW

Genetic Background

Generation

Tg(Lrrk2)<sup>6</sup>Yue

Allele Type

Transgenic (Inserted expressed sequence)

[VIEW GENETICS](#)

## RESEARCH APPLICATIONS

Neurobiology Research

Developmental Biology Research

[VIEW ALL RESEARCH APPLICATIONS](#)

## BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

[VIEW PRICE LIST](#)

### Details

#### Detailed Description

Mice hemizygous for the BAC *FLAG-Lrrk2-Wt* transgene are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. These mice express a wild-type mouse leucine-rich repeat kinase 2 (*Lrrk2*) gene directed by its endogenous promoter/enhancer regions on the BAC transgene. These BAC *FLAG-Lrrk2-Wt* mice "overexpress" the wildtype mouse LRRK2 protein in cerebral cortex, striatum, substantia nigra, internal capsule, and hippocampus at an approximately 6-8 fold greater level than endogenous mouse *Lrrk2*. Contrary to the BAC *FLAG-Lrrk2-G2019S* Parkinson's disease mice, these mice have enhanced evoked dopamine release in the striatum and exhibit slightly increased motor activities compared to nontransgenic wild-type controls. These mice may be useful for studying normal function of LRRK2 function and the pathogenesis of Parkinson's disease.

#### Development

#### Expression Data

#### Control Suggestions

[+ Selected References](#)

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## [- Genetics](#)

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[+ Tg\(Lrrk2\)<sup>6Yue</sup>](#)

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## [- Disease/Phenotype](#)

[+ 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](#)

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### Genotyping Protocols

Pyrosequencing: [Tg\(Lrrk2\)-PYRO](#)

QPCR: [Lrrk2/LRRK2](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

When maintaining a live colony hemizygous mice may be bred to wildtype (noncarrier) mice from the colony or to C57BL/6J (Stock No. 000664).

[Additional Breeding and Husbandry Support](#)

### Citation

When using the B6.Cg-Tg(Lrrk2)<sup>6Yue</sup>/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #012466 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 Pricing

SERVICE	GENOTYPE	PRICE
Cryo Recovery	Hemizygous or Non carrier for Tg(Lrrk2)6Yue	\$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	B6.Cg-Tg(Lrrk2)6Yue/J	\$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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## Licensing Information

Phone: 207-288-6470

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

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