

Resource Summary Report

Generated by [NIF](#) on Sep 1, 2026

C57BL/6-Lrrk2^{tm1.1Mjff}/J

RRID:IMSR_JAX:016121

Type: Organism

Proper Citation

RRID:IMSR_JAX:016121

Organism Information

URL: <https://www.jax.org/strain/016121>

Proper Citation: RRID:IMSR_JAX:016121

Description: Mus musculus with name C57BL/6-Lrrk2^{tm1.1Mjff}/J from IMSR.

Species: Mus musculus

Synonyms: C57BL/6N-Lrrk2/J. C57BL/6N-Lrrk2/J

Notes: gene symbol note: leucine-rich repeat kinase 2; coisogenic strain|mutant strain: Lrrk2

Affected Gene: leucine-rich repeat kinase 2

Genomic Alteration: targeted mutation 1.1; The Michael J Fox Foundation

Catalog Number: JAX:016121

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: C57BL/6-Lrrk2^{tm1.1Mjff}/J

Record Creation Time: 20250513T053729+0000

Record Last Update: 20260829T045041+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/6-Lrrk2^{tm1.1Mjff}/J.

No alerts have been found for C57BL/6-Lrrk2^{tm1.1Mjff/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 5 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#).

Chen C, et al. (2025) Leucine-rich repeat kinase 2 impairs the release sites of Parkinson's disease vulnerable dopamine axons. bioRxiv : the preprint server for biology.

Yadavalli N, et al. (2023) LRRK2 suppresses lysosome degradative activity in macrophages and microglia through MiT-TFE transcription factor inhibition. Proceedings of the National Academy of Sciences of the United States of America, 120(31), e2303789120.

Maset A, et al. (2021) Aberrant Patterns of Sensory-Evoked Activity in the Olfactory Bulb of LRRK2 Knockout Mice. Cells, 10(11).

Sarkar S, et al. (2021) Oligomerization of Lrrk controls actin severing and ??-synuclein neurotoxicity in vivo. Molecular neurodegeneration, 16(1), 33.

Weindel CG, et al. (2020) LRRK2 maintains mitochondrial homeostasis and regulates innate immune responses to Mycobacterium tuberculosis. eLife, 9.