

Resource Summary Report

Generated by [NIF](#) on Aug 14, 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: 20260808T050933+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.

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

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

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