

Resource Summary Report

Generated by [kravitz2](#) on Sep 19, 2026

B6.Cg-Lrrk2^{tm1.1Hlme}/J

RRID:IMSR_JAX:030961

Type: Organism

Proper Citation

RRID:IMSR_JAX:030961

Organism Information

URL: <https://www.jax.org/strain/030961>

Proper Citation: RRID:IMSR_JAX:030961

Description: Mus musculus with name B6.Cg-Lrrk2^{tm1.1Hlme}/J from IMSR.

Species: Mus musculus

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

Affected Gene: leucine-rich repeat kinase 2

Genomic Alteration: targeted mutation 1.1; Heather L Melrose

Catalog Number: JAX:030961

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Lrrk2^{tm1.1Hlme}/J

Record Creation Time: 20250513T053819+0000

Record Last Update: 20260919T055003+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Lrrk2^{tm1.1Hlme}/J.

No alerts have been found for B6.Cg-Lrrk2^{tm1.1Hlme}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 11 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Thapa M, et al. (2026) Translocation of bacteria from the gut to the brain in mice. PLoS biology, 24(3), e3003652.

Tsafaras G, et al. (2025) The G2019S LRRK2 mutation exacerbates ??-synuclein and tau neuropathology through divergent pathways in Parkinson's disease models. Acta neuropathologica, 150(1), 51.

Jaffery R, et al. (2025) Soluble Immune Factor Profiles in Blood and CSF Associated with LRRK2 Mutations and Parkinson's Disease. bioRxiv : the preprint server for biology.

Gaertner Z, et al. (2025) Molecular and spatial transcriptomic classification of midbrain dopamine neurons and their alterations in a LRRK2G2019S model of Parkinson's disease. eLife, 13.

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.

Pei J, et al. (2025) Lrrk2 G2019S mutation incites increased cell-intrinsic neutrophil effector functions and intestinal inflammation in a model of infectious colitis. NPJ Parkinson's disease, 11(1), 267.

Cabezudo D, et al. (2023) Mutant LRRK2 exacerbates immune response and neurodegeneration in a chronic model of experimental colitis. Acta neuropathologica, 146(2), 245.

Thapa M, et al. (2023) Translocation of gut commensal bacteria to the brain. 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.

Weindel CG, et al. (2022) Mitochondrial ROS promotes susceptibility to infection via gasdermin D-mediated necroptosis. Cell, 185(17), 3214.

Xenias HS, et al. (2022) R1441C and G2019S LRRK2 knockin mice have distinct striatal molecular, physiological, and behavioral alterations. Communications biology, 5(1), 1211.