

Resource Summary Report

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

B6.129X1(FVB)-Lrrk2^{tm1.1Cai}/J

RRID:IMSR_JAX:012453

Type: Organism

Proper Citation

RRID:IMSR_JAX:012453

Organism Information

URL: <https://www.jax.org/strain/012453>

Proper Citation: RRID:IMSR_JAX:012453

Description: Mus musculus with name B6.129X1(FVB)-Lrrk2^{tm1.1Cai}/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; Huaibin Cai

Catalog Number: JAX:012453

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6.129X1(FVB)-Lrrk2^{tm1.1Cai}/J

Record Creation Time: 20250513T053720+0000

Record Last Update: 20260919T054908+0000

Ratings and Alerts

No rating or validation information has been found for B6.129X1(FVB)-Lrrk2^{tm1.1Cai}/J.

No alerts have been found for B6.129X1(FVB)-Lrrk2^{tm1.1Cai}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Nabar NR, et al. (2022) LRRK2 is required for CD38-mediated NAADP-Ca²⁺ signaling and the downstream activation of TFEB (transcription factor EB) in immune cells. Autophagy, 18(1), 204.

Levy DR, et al. (2020) The Parkinson's disease-associated kinase LRRK2 regulates genes required for cell adhesion, polarization, and chemotaxis in activated murine macrophages. The Journal of biological chemistry, 295(31), 10857.

Berwick DC, et al. (2017) Pathogenic LRRK2 variants are gain-of-function mutations that enhance LRRK2-mediated repression of β -catenin signaling. Molecular neurodegeneration, 12(1), 9.