Resource Summary Report

Generated by T1D on Sep 20, 2026

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

RRID:IMSR_JAX:009346
Type: Organism

Proper Citation

RRID:IMSR_JAX:009346

Organism Information

URL: https://www.jax.org/strain/009346

Proper Citation: RRID:IMSR_JAX:009346

Description: Mus musculus with name B6.Cg-Lrrk2$^{tm1.1Shn}$/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; Jie Shen

Catalog Number: JAX:009346

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

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

Record Creation Time: 20250513T053714+0000

Record Last Update: 20260919T054902+0000

Ratings and Alerts

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

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

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 8 mentions in open access literature.

Listed below are recent publications. The full list is available at T1D .

Song P, et al. (2026) N-acetyl-l-leucine lowers ??-synuclein levels and improves synaptic function in Parkinson's disease models. The Journal of clinical investigation, 136(5).

Lin YE, et al. (2025) Pathogenic LRRK2 mutations cause loss of primary cilia and Neurturin in striatal parvalbumin interneurons. Life science alliance, 8(1).

Song P, et al. (2025) N-acetyl-l-leucine lowers pS129-synuclein and improves synaptic function in models of Parkinson's disease. Research square.

Wallings RL, et al. (2024) The R1441C-Lrrk2 mutation induces myeloid immune cell exhaustion in an age- and sex-dependent manner in mice. Science translational medicine, 16(772), eadl1535.

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

Khan SS, et al. (2021) Pathogenic LRRK2 control of primary cilia and Hedgehog signaling in neurons and astrocytes of mouse brain. eLife, 10.

Kalogeropulou AF, et al. (2020) Endogenous Rab29 does not impact basal or stimulated LRRK2 pathway activity. The Biochemical journal, 477(22), 4397.

Dhekne HS, et al. (2018) A pathway for Parkinson's Disease LRRK2 kinase to block primary cilia and Sonic hedgehog signaling in the brain. eLife, 7.