

Resource Summary Report

Generated by [RRID](#) on Jul 30, 2026

C57BL/6-Lrrk2^{tm4.1Arte}

RRID:IMSR_TAC:13940

Type: Organism

Proper Citation

RRID:IMSR_TAC:13940

Organism Information

URL: <https://www.taconic.com/mouse-model/lrrk2-g2019s-mouse>

Proper Citation: RRID:IMSR_TAC:13940

Description: Mus musculus with name C57BL/6-Lrrk2^{tm4.1Arte} from IMSR.

Species: Mus musculus

Notes: gene symbol note: ; mutant strain:

Catalog Number: TAC:13940

Database: Taconic Biosciences

Database Abbreviation: TAC

Availability: live

Organism Name: C57BL/6-Lrrk2^{tm4.1Arte}

Record Creation Time: 20250513T053517+0000

Record Last Update: 20260725T044216+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/6-Lrrk2^{tm4.1Arte}.

No alerts have been found for C57BL/6-Lrrk2^{tm4.1Arte}.

Data and Source Information

Source: [Integrated Animals](#)

Usage and Citation Metrics

We found 11 mentions in open access literature.

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

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

Scheiblich H, et al. (2024) Microglia rescue neurons from aggregate-induced neuronal dysfunction and death through tunneling nanotubes. *Neuron*, 112(18), 3106.

Khan SS, et al. (2024) Loss of primary cilia and dopaminergic neuroprotection in pathogenic LRRK2-driven and idiopathic Parkinson's disease. *bioRxiv : the preprint server for biology*.

Wang S, et al. (2024) Astrocytic LRRK2 Controls Synaptic Connectivity via Regulation of ERM Phosphorylation. *bioRxiv : the preprint server for biology*.

Pajarillo E, et al. (2023) The role of microglial LRRK2 kinase in manganese-induced inflammatory neurotoxicity via NLRP3 inflammasome and RAB10-mediated autophagy dysfunction. *The Journal of biological chemistry*, 299(7), 104879.

Gupta S, et al. (2023) Parkinson's-linked LRRK2-G2019S derails AMPAR trafficking, mobility and composition in striatum with cell-type and subunit specificity. *bioRxiv : the preprint server for biology*.

Kozina E, et al. (2022) Mutant LRRK2 in lymphocytes regulates neurodegeneration via IL-6 in an inflammatory model of Parkinson's disease. *NPJ Parkinson's disease*, 8(1), 24.

Wang X, et al. (2021) Understanding LRRK2 kinase activity in preclinical models and human subjects through quantitative analysis of LRRK2 and pT73 Rab10. *Scientific reports*, 11(1), 12900.

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

Scheiblich H, et al. (2021) Microglia jointly degrade fibrillar alpha-synuclein cargo by distribution through tunneling nanotubes. *Cell*, 184(20), 5089.

Crown LM, et al. (2020) Sleep Spindles and Fragmented Sleep as Prodromal Markers in a Preclinical Model of LRRK2-G2019S Parkinson's Disease. *Frontiers in neurology*, 11, 324.