# Resource Summary Report

Generated by RRID on Jul 30, 2026

## C57BL/6N-Ppm1d$^{em1(IMPC)Wtsi}$/WtsiCnbc

RRID:IMSR_EM:13940
Type: Organism

### Proper Citation

RRID:IMSR_EM:13940

### Organism Information

**URL:** https://www.infrafrontier.eu/emma/strain-details/?q=13940

**Proper Citation:** RRID:IMSR_EM:13940

**Description:** Mus musculus with name C57BL/6N-Ppm1d$^{em1(IMPC)Wtsi}$/WtsiCnbc from IMSR.

**Species:** Mus musculus

**Notes:** gene symbol note: protein phosphatase 1D magnesium-dependent; delta isoform; mutant strain: Ppm1d

**Affected Gene:** protein phosphatase 1D magnesium-dependent; delta isoform

**Genomic Alteration:** endonuclease-mediated mutation 1; Wellcome Trust Sanger Institute

**Catalog Number:** EM:13940

**Database:** European Mouse Mutant Archive

**Database Abbreviation:** EMMA

**Availability:** sperm

**Organism Name:** C57BL/6N-Ppm1d$^{em1(IMPC)Wtsi}$/WtsiCnbc

**Record Creation Time:** 20250513T062327+0000

**Record Last Update:** 20260725T053100+0000

### Ratings and Alerts

No rating or validation information has been found for C57BL/6N-Ppm1d$^{em1(IMPC)Wtsi}$/WtsiCnbc.

No alerts have been found for C57BL/6N-Ppm1d$^{em1(IMPC)Wtsi}$/WtsiCnbc.

## Data and Source Information

**Source:** Integrated Animals

**Source Database:** European Mouse Mutant Archive

## 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 ?-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.