

Resource Summary Report

Generated by [PRECISE-TBI](#) on Sep 1, 2026

pRK5-HA-Parkin

RRID:Addgene_17613

Type: Plasmid

Proper Citation

RRID:Addgene_17613

Plasmid Information

URL: <http://www.addgene.org/17613>

Proper Citation: RRID:Addgene_17613

Insert Name: Parkin

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:11078524](#)

Vector Backbone Description: Backbone Size:4800; Vector Backbone:pRK5-HA; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pRK5-HA-Parkin

Record Creation Time: 20220422T222017+0000

Record Last Update: 20260829T080043+0000

Ratings and Alerts

No rating or validation information has been found for pRK5-HA-Parkin.

No alerts have been found for pRK5-HA-Parkin.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 18 mentions in open access literature.

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

Collier CL, et al. (2025) PINK1 Loss of Function Selectively Alters the Mitochondrial-Derived Vesicle Pathway. *FASEB bioAdvances*, 7(7), e70030.

Zanon A, et al. (2024) Intracellular delivery of Parkin-RING0-based fragments corrects Parkin-induced mitochondrial dysfunction through interaction with SLP-2. *Journal of translational medicine*, 22(1), 59.

Kapadia BB, et al. (2022) PARK2 regulates eIF4B-driven lymphomagenesis. *Molecular cancer research : MCR*, 20(5), 735.

Esser LK, et al. (2022) Overexpression of Parkin in clear cell renal cell carcinoma decreases tumor aggressiveness by regulating CKS2 levels. *International journal of oncology*, 60(2).

Bu L, et al. (2020) The Ubiquitin E3 Ligase Parkin Inhibits Innate Antiviral Immunity Through K48-Linked Polyubiquitination of RIG-I and MDA5. *Frontiers in immunology*, 11, 1926.

Ryan TA, et al. (2020) Tollip coordinates Parkin-dependent trafficking of mitochondrial-derived vesicles. *The EMBO journal*, 39(11), e102539.

Chen Q, et al. (2020) BRCA1 Deficiency Impairs Mitophagy and Promotes Inflammasome Activation and Mammary Tumor Metastasis. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 7(6), 1903616.

Araya J, et al. (2019) PRKN-regulated mitophagy and cellular senescence during COPD pathogenesis. *Autophagy*, 15(3), 510.

Safiulina D, et al. (2019) Miro proteins prime mitochondria for Parkin translocation and mitophagy. *The EMBO journal*, 38(2).

Saito N, et al. (2019) Involvement of Lamin B1 Reduction in Accelerated Cellular Senescence during Chronic Obstructive Pulmonary Disease Pathogenesis. *Journal of immunology (Baltimore, Md. : 1950)*, 202(5), 1428.

Lahuerta M, et al. (2018) Degradation of altered mitochondria by autophagy is impaired in Lafora disease. *The FEBS journal*, 285(11), 2071.

Pascucci B, et al. (2017) Overexpression of parkin rescues the defective mitochondrial phenotype and the increased apoptosis of Cockayne Syndrome A cells. *Oncotarget*, 8(61), 102852.

Hammerling BC, et al. (2017) A Rab5 endosomal pathway mediates Parkin-dependent mitochondrial clearance. *Nature communications*, 8, 14050.

Grimaldo L, et al. (2017) Involvement of Parkin in the ubiquitin proteasome system-mediated degradation of N-type voltage-gated Ca²⁺ channels. *PloS one*, 12(9), e0185289.

Cheng M, et al. (2016) MicroRNA-181a suppresses parkin-mediated mitophagy and sensitizes neuroblastoma cells to mitochondrial uncoupler-induced apoptosis. *Oncotarget*, 7(27), 42274.

Ito S, et al. (2015) PARK2-mediated mitophagy is involved in regulation of HBEC senescence in COPD pathogenesis. *Autophagy*, 11(3), 547.

Sargsyan A, et al. (2015) Rapid parallel measurements of macroautophagy and mitophagy in mammalian cells using a single fluorescent biosensor. *Scientific reports*, 5, 12397.

Kim SJ, et al. (2013) Hepatitis C virus induces the mitochondrial translocation of Parkin and subsequent mitophagy. *PLoS pathogens*, 9(3), e1003285.