

Resource Summary Report

Generated by [NIF](#) on Aug 20, 2026

pEGFP-parkin WT

RRID:Addgene_45875

Type: Plasmid

Proper Citation

RRID:Addgene_45875

Plasmid Information

URL: <http://www.addgene.org/45875>

Proper Citation: RRID:Addgene_45875

Insert Name: Parkin

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:23661642](#)

Vector Backbone Description: Backbone Size:4731; Vector Backbone:pEGFP-C2;
Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Plasmid Name: pEGFP-parkin WT

Record Creation Time: 20220422T222236+0000

Record Last Update: 20260815T081527+0000

Ratings and Alerts

No rating or validation information has been found for pEGFP-parkin WT.

No alerts have been found for pEGFP-parkin WT.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 31 mentions in open access literature.

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

Dafsari HS, et al. (2025) Mutations in the Key Autophagy Tethering Factor EPG5 Link Neurodevelopmental and Neurodegenerative Disorders Including Early-Onset Parkinsonism. *Annals of neurology*, 98(5), 932.

Ahmed RPH, et al. (2025) Induced Mitophagy Promotes Cell Cycle Re-Entry in Adult Cardiomyocytes. *Cells*, 14(12).

Yeon M, et al. (2025) Parkin Induces Ubiquitination and Large Extracellular Vesicle Release of HMGB1 to Activate Antitumor Immunity. *Cancer research*, 85(24), 5033.

Mishra SR, et al. (2024) Anticancer activity of *Bacopa monnieri* through apoptosis induction and mitophagy-dependent NLRP3 inflammasome inhibition in oral squamous cell carcinoma. *Phytomedicine : international journal of phytotherapy and phytopharmacology*, 123, 155157.

Prashar A, et al. (2024) Lysosomes drive the piecemeal removal of mitochondrial inner membrane. *Nature*, 632(8027), 1110.

Peng W, et al. (2023) Parkin regulates amino acid homeostasis at mitochondria-lysosome (M/L) contact sites in Parkinson's disease. *Science advances*, 9(29), eadh3347.

Tang W, et al. (2023) Parkin regulates neuronal lipid homeostasis through SREBP2-lipoprotein lipase pathway-implications for Parkinson's disease. *Human molecular genetics*, 32(9), 1466.

Panigrahi DP, et al. (2023) The inner mitochondrial membrane fission protein MTP18 serves as a mitophagy receptor to prevent apoptosis in oral cancer. *Journal of cell science*, 136(13).

Chandra K, et al. (2023) PHLPP1 regulates PINK1-parkin signalling and life span. *Biochimica et biophysica acta. Molecular basis of disease*, 1869(6), 166718.

Li Y, et al. (2023) PINK1-Mediated Mitophagy Promotes Oxidative Phosphorylation and Redox Homeostasis to Induce Drug-Tolerant Persister Cancer Cells. *Cancer research*, 83(3), 398.

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

Sauvé V, et al. (2022) Structural basis for feedforward control in the PINK1/Parkin pathway. *The EMBO journal*, 41(12), e109460.

Shlevkov E, et al. (2022) Discovery of small-molecule positive allosteric modulators of Parkin E3 ligase. *iScience*, 25(1), 103650.

Pernaute B, et al. (2022) DRP1 levels determine the apoptotic threshold during embryonic differentiation through a mitophagy-dependent mechanism. *Developmental cell*, 57(11), 1316.

Rouland L, et al. (2021) Therapeutic potential of parkin as a tumor suppressor via transcriptional control of cyclins in glioblastoma cell and animal models. *Theranostics*, 11(20), 10047.

Ma KY, et al. (2021) Systematic analysis of PINK1 variants of unknown significance shows intact mitophagy function for most variants. *NPJ Parkinson's disease*, 7(1), 113.

Kara E, et al. (2021) An integrated genomic approach to dissect the genetic landscape regulating the cell-to-cell transfer of α -synuclein. *Cell reports*, 35(10), 109189.

Ma KY, et al. (2021) Parkinson's disease-associated VPS35 mutant reduces mitochondrial membrane potential and impairs PINK1/Parkin-mediated mitophagy. *Translational neurodegeneration*, 10(1), 19.

Roverato ND, et al. (2021) Parkin is an E3 ligase for the ubiquitin-like modifier FAT10, which inhibits Parkin activation and mitophagy. *Cell reports*, 34(11), 108857.

Chen H, et al. (2020) PARK2 promotes mitochondrial pathway of apoptosis and antimicrotubule drugs chemosensitivity via degradation of phospho-BCL-2. *Theranostics*, 10(22), 9984.