

Resource Summary Report

Generated by [NIF](#) on Aug 19, 2026

pEGFP-LC3

RRID:Addgene_21073

Type: Plasmid

Proper Citation

RRID:Addgene_21073

Plasmid Information

URL: <http://www.addgene.org/21073>

Proper Citation: RRID:Addgene_21073

Insert Name: microtubule-associated protein 1 light chain 3 beta

Organism: Rattus norvegicus

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:11060023](#)

Vector Backbone Description: Backbone Marker:clontech; Backbone Size:4700; Vector Backbone:pEGFP-C1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Plasmid Name: pEGFP-LC3

Relevant Mutation: First ATG is not included.

Record Creation Time: 20220422T222054+0000

Record Last Update: 20260815T081159+0000

Ratings and Alerts

No rating or validation information has been found for pEGFP-LC3.

No alerts have been found for pEGFP-LC3.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 100 mentions in open access literature.

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

Cho Y, et al. (2025) Context-specific applications of CARM1 inhibitors: functional profiles of EZM2302 and TP-064. *Molecular medicine (Cambridge, Mass.)*, 31(1), 322.

Palmer JE, et al. (2025) Coordination of autophagosome closure and release by the Alzheimer's disease-associated protein BIN1. *Cell reports*, 44(9), 116266.

Park J, et al. (2025) Two specific interactions of GATE16 with TRPML3 and RAB33B regulate autophagy. *Scientific reports*, 15(1), 31244.

Knupp J, et al. (2024) Sigma-1 receptor recruits LC3 mRNA to ER-associated omegasomes to promote localized LC3 translation enabling functional autophagy. *Cell reports*, 43(8), 114619.

Madan A, et al. (2024) Atg8/LC3 controls systemic nutrient surplus signaling in flies and humans. *Current biology : CB*, 34(15), 3327.

Hsu WJ, et al. (2024) Arginine Methylation of DDX3 by PRMT1 Mediates Mitochondrial Homeostasis to Promote Breast Cancer Metastasis. *Cancer research*, 84(18), 3023.

Yun JH, et al. (2024) Non-thermal atmospheric pressure plasma induces selective cancer cell apoptosis by modulating redox homeostasis. *Cell communication and signaling : CCS*, 22(1), 452.

Woo MS, et al. (2024) STING orchestrates the neuronal inflammatory stress response in multiple sclerosis. *Cell*, 187(15), 4043.

Fredericks K, et al. (2024) 5-ALA localises to the autophagy compartment and increases its fluorescence upon autophagy enhancement through caloric restriction and spermidine treatment in human glioblastoma. *Biochemistry and biophysics reports*, 37, 101642.

Song T, et al. (2023) Hsp70-Bim interaction facilitates mitophagy by recruiting parkin and TOMM20 into a complex. *Cellular & molecular biology letters*, 28(1), 46.

Jang HJ, et al. (2023) Thrap3 promotes nonalcoholic fatty liver disease by suppressing AMPK-mediated autophagy. *Experimental & molecular medicine*, 55(8), 1720.

Cason SE, et al. (2023) Axonal transport of autophagosomes is regulated by dynein activators JIP3/JIP4 and ARF/RAB GTPases. *bioRxiv : the preprint server for biology*.

Gallagher ER, et al. (2023) The selective autophagy adaptor p62/SQSTM1 forms phase condensates regulated by HSP27 that facilitate the clearance of damaged lysosomes via lysophagy. *Cell reports*, 42(2), 112037.

Xiao W, et al. (2022) Therapeutic targeting of the USP2-E2F4 axis inhibits autophagic machinery essential for zinc homeostasis in cancer progression. *Autophagy*, 18(11), 2615.

Xing Y, et al. (2022) Autophagy inhibition mediated by MCOLN1/TRPML1 suppresses cancer metastasis via regulating a ROS-driven TP53/p53 pathway. *Autophagy*, 18(8), 1932.

Fan YM, et al. (2022) Coxsackievirus Protease 2A Targets Host Protease ATG4A to Impair Autophagy. *Viruses*, 14(9).

Cason SE, et al. (2022) Spatiotemporal analysis of axonal autophagosome-lysosome dynamics reveals limited fusion events and slow maturation. *Molecular biology of the cell*, 33(13), ar123.

Sen A, et al. (2022) Mitochondrial membrane proteins and VPS35 orchestrate selective removal of mtDNA. *Nature communications*, 13(1), 6704.

Ke PY, et al. (2022) Baicalein Activates Parkin-Dependent Mitophagy through NDP52 and OPTN. *Cells*, 11(7).

Xing Y, et al. (2022) Stimulating TRPM7 suppresses cancer cell proliferation and metastasis by inhibiting autophagy. *Cancer letters*, 525, 179.