

Resource Summary Report

Generated by [dkNET](#) on Aug 24, 2026

pmRFP-LC3

RRID:Addgene_21075

Type: Plasmid

Proper Citation

RRID:Addgene_21075

Plasmid Information

URL: <http://www.addgene.org/21075>

Proper Citation: RRID:Addgene_21075

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

Organism: Rattus norvegicus

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:17534139](#)

Vector Backbone Description: Backbone Size:4500; Vector Backbone:pmRFP-C1;
Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: Compbell RE, Tour O, Palmer AE, Steinbach PA, Baird GS, Zacharian DA, Tsien RY, A monomeric red fluorescent protein, Proc Natl Acad Sci USA. 2002, 99(12):7877-82

Plasmid Name: pmRFP-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 pmRFP-LC3.

No alerts have been found for pmRFP-LC3.

Data and Source Information

Usage and Citation Metrics

We found 94 mentions in open access literature.

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

Coronado-Monroy P, et al. (2026) Autophagy-Lysosomal Axis Stimulation by Beta-Hydroxybutyrate in Astrocytes. *Molecular neurobiology*, 63(1).

Hargitai D, et al. (2025) HOPS-dependent vesicle tethering lock inhibits endolysosomal fusions and autophagosome secretion upon the loss of Syntaxin17. *Science advances*, 11(23), eadu9605.

Wang P, et al. (2025) Endosome-phagophore linking assemblies for the degradation of membrane/extracellular proteins. *Nature communications*, 16(1), 11563.

Lauritzen I, et al. (2025) Presenilins as hub proteins controlling the endocytic and autophagic pathways and small extracellular vesicle secretion. *Journal of extracellular vesicles*, 14(1), e70019.

De Lorenzi V, et al. (2025) Measuring pH in insulin secretory granules by phasor-based fluorescence lifetime imaging of a genetically encoded sensor. *Communications biology*, 8(1), 304.

Abrar F, et al. (2025) Reduced Palmitoylation of SQSTM1/p62 in Huntington Disease Is Associated With Impaired Autophagy. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 39(9), e70549.

Pasqualotto BA, et al. (2024) Impaired mitochondrial morphological plasticity and failure of mitophagy associated with the G11778A mutation of LHON. *Biochemical and biophysical research communications*, 721, 150119.

Mulligan RJ, et al. (2024) Collapse of late endosomal pH elicits a rapid Rab7 response via the V-ATPase and RILP. *Journal of cell science*, 137(9).

Read TA, et al. (2024) The actin binding protein profilin 1 localizes inside mitochondria and is critical for their function. *EMBO reports*, 25(8), 3240.

Geng F, et al. (2023) SREBP-1 upregulates lipophagy to maintain cholesterol homeostasis in brain tumor cells. *Cell reports*, 42(7), 112790.

Fairley LH, et al. (2023) Spermidine Rescues Bioenergetic and Mitophagy Deficits Induced by Disease-Associated Tau Protein. *International journal of molecular sciences*, 24(6).

Przanowski P, et al. (2023) ANKLE1 cleaves mitochondrial DNA and contributes to cancer risk by promoting apoptosis resistance and metabolic dysregulation. *Communications biology*, 6(1), 231.

Li H, et al. (2023) Defective BVES-mediated feedback control of cAMP in muscular dystrophy. *Nature communications*, 14(1), 1785.

Joo YK, et al. (2023) ATR promotes clearance of damaged DNA and damaged cells by rupturing micronuclei. *Molecular cell*, 83(20), 3642.

Keary KM, et al. (2023) Dendritic distribution of autophagosomes underlies pathway-selective induction of LTD. *Cell reports*, 42(8), 112898.

Da Graça J, et al. (2023) A SNX1-SNX2-VAPB partnership regulates endosomal membrane rewiring in response to nutritional stress. *Life science alliance*, 6(3).

Liu H, et al. (2023) Canagliflozin ameliorates high glucose-induced apoptosis in NRK-52E cells via inhibiting oxidative stress and activating AMPK/mTOR-mediated autophagy. *Molecular biology reports*, 50(12), 10325.

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.

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

Jovanovi? Stojanov S, et al. (2022) Autophagy Inhibition Enhances Anti-Glioblastoma Effects of Pyrazolo[3,4-d]pyrimidine Tyrosine Kinase Inhibitors. *Life (Basel, Switzerland)*, 12(10).