

Resource Summary Report

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

[ptfLC3](#)

RRID:Addgene_21074

Type: Plasmid

Proper Citation

RRID:Addgene_21074

Plasmid Information

URL: <http://www.addgene.org/21074>

Proper Citation: RRID:Addgene_21074

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:5200; Vector Backbone:pEGFP-C1+mRFP; 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 NOTE FROM AUTHORS: We found several alterations between our plasmid and the version on NCBI [Map1lc3b; <https://www.ncbi.nlm.nih.gov/gene/64862>]. Our original clone may be a kind of variant. In the C-terminal end of tflc3, the stop codon is removed, which causes an additional 17 amino acid residues. However, the C-terminal end from Gly120, including the 17 amino acids, is immediately cut off by Atg4 protease after the translation. Therefore that sequence variant will not affect the function of the protein.

Plasmid Name: ptfLC3

Record Creation Time: 20220422T222054+0000

Record Last Update: 20260815T081159+0000

Ratings and Alerts

No rating or validation information has been found for ptfLC3.

No alerts have been found for ptfLC3.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 328 mentions in open access literature.

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

Martin KR, et al. (2026) Quantitative and temporal analysis of autophagy: Differential Response to amino acid and glucose starvation. PloS one, 21(2), e0340957.

Sawaya BE, et al. (2026) CK1?-dependent SNAPIN dysregulation drives lysosomal failure in HIV-1 Vpr-exposed neurons: A targetable mechanism in HAND. iScience, 29(2), 114544.

Santos-Zas I, et al. (2026) Obestatin Treatment Counteracts Muscle Wasting by Reactivation of Autophagy in Duchenne Muscular Dystrophy. MedComm, 7(1), e70563.

Leonardi L, et al. (2026) TLR7 induces autophagy in non-small cell lung cancer tumor cells and influences anti-tumors responses in patients. Translational lung cancer research, 15(4), 75.

Wang C, et al. (2025) Andrographolide mitigates neurotoxicity induced by lipopolysaccharide or amyloid-? through modulation of miR-222-mediated p62 and NF-? Bp65 expression. European journal of pharmacology, 988, 177224.

Semba Y, et al. (2025) Ridaifen derivatives function as potent lysosomotropic agents, depending on their basic side chains. European journal of pharmacology, 1005, 178082.

Zheng Q, et al. (2025) Ca²⁺/calmodulin-dependent protein kinase II ? decodes ER Ca²⁺ transients to trigger autophagosome formation. Molecular cell, 85(3), 620.

Zhou F, et al. (2025) Stabilisation of PRCP by deubiquitinase-targeting chimera (DUBTAC) to replenish autophagy for ameliorating pathological cardiac hypertrophy. British journal of pharmacology.

Ali M, et al. (2025) ANKZF1 helps to eliminate stress-damaged mitochondria by LC3-mediated mitophagy. Cell death discovery, 11(1), 349.

Severino MB, et al. (2025) A CRISPR-edited isoform of the AMPK kinase LKB1 improves the response to cisplatin in A549 lung cancer cells. The Journal of biological chemistry, 301(3), 108308.

Tripathi M, et al. (2025) ESRRA (estrogen related receptor, alpha) induces ribosomal protein RPLP1-mediated adaptive hepatic translation during prolonged starvation. *Autophagy*, 21(6), 1283.

Bassal R, et al. (2025) APOE4 impairs autophagy and A β clearance by microglial cells. *Inflammation research : official journal of the European Histamine Research Society ... [et al.]*, 74(1), 61.

Chen D, et al. (2025) H3K36me2 methyltransferase NSD2/WHSC1 promotes triple-negative breast cancer metastasis via activation of ULK1-dependent autophagy. *Autophagy*, 21(8), 1824.

Yang X, et al. (2025) SET8 inhibition preserves PTEN to attenuate kidney cell apoptosis in cisplatin nephrotoxicity. *Cell death & disease*, 16(1), 226.

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.

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

Kundu K, et al. (2025) Synthesis, Structure-Activity Relationship, and Biological Evaluation of a Novel Malabaricone Derivative: A Potent Anticancer Agent and Radiosensitizer That Targets Autophagy Flux. *ACS omega*, 10(21), 21589.

Kwon J, et al. (2025) MCOLN1/TRPML1-MCOLN3/TRPML3 heteromer and its coupling to Ca²⁺ sensor SYT5 regulates autophagosome-lysosome fusion in a PtdIns4P-dependent manner. *Autophagy*, 1.

Boada-Romero E, et al. (2025) Membrane receptors cluster phosphatidylserine to activate LC3-associated phagocytosis. *Nature cell biology*, 27(10), 1676.

Heo H, et al. (2024) TRIM22 facilitates autophagosome-lysosome fusion by mediating the association of GABARAPs and PLEKHM1. *Autophagy*, 20(5), 1098.