

Resource Summary Report

Generated by [RRID](#) on Aug 18, 2026

pMRX-IP-GFP-LC3-RFP-LC3?G

RRID:Addgene_84572

Type: Plasmid

Proper Citation

RRID:Addgene_84572

Plasmid Information

URL: <http://www.addgene.org/84572>

Proper Citation: RRID:Addgene_84572

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

Organism: Rattus norvegicus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:27818143](#)

Vector Backbone Description: Backbone Marker:Dr.Shoji Yamaoka of Tokyo Medical and Dental University; Backbone Size:6100; Vector Backbone:pMRX-IP; Vector Types:Mammalian Expression, Retroviral; Bacterial Resistance:Ampicillin

Plasmid Name: pMRX-IP-GFP-LC3-RFP-LC3?G

Record Creation Time: 20220422T222545+0000

Record Last Update: 20260815T082121+0000

Ratings and Alerts

No rating or validation information has been found for pMRX-IP-GFP-LC3-RFP-LC3?G.

No alerts have been found for pMRX-IP-GFP-LC3-RFP-LC3?G.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 68 mentions in open access literature.

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

Cao Y, et al. (2026) Targeting the ferritinophagy-lysosome axis as a therapeutic vulnerability in gastroenteropancreatic neuroendocrine tumors. *Cell reports. Medicine*, 7(4), 102695.

Roach MK, et al. (2026) Vertical inhibition of the autophagy pathway impairs growth and enhances sensitivity to mTORC1 inhibition in pancreatic ductal adenocarcinoma. *bioRxiv : the preprint server for biology*.

Parkinson C, et al. (2026) A dose-dependent switch in translation capacity controls the transcription factor response to H₂O₂ stress. *bioRxiv : the preprint server for biology*.

Hattori Y, et al. (2025) Ambroxol induces myeloma cell death by inhibiting autophagy. *Blood neoplasia*, 2(3), 100100.

Ling J, et al. (2025) A Heparan Sulfate Mimetic RAFT Copolymer Inhibits SARS-CoV-2 Infection and Ameliorates Viral-Induced Inflammation. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 12(6), e2411737.

Ho-Xuan H, et al. (2025) YTHDF proteins and m⁶A-RNA clients undergo autophagic turnover during contact inhibition. *Cell reports*, 44(9), 116188.

Xie K, et al. (2025) The Yeast-Fermented Garlic and a Balance of Spermine/Spermidine Activates Autophagy via EGR1 Transcriptional Factor. *Molecular nutrition & food research*, 69(5), e202400606.

Yaeger JDW, et al. (2025) Cholesterol deficiency directs autophagy-dependent secretion of extracellular vesicles. *bioRxiv : the preprint server for biology*.

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.

Gupta Y, et al. (2025) Atypical cadherin FAT1 promotes tumorigenesis by suppressing autophagic cell death in glioblastoma under hypoxia or nutrient stress. *Cellular & molecular biology letters*, 30(1), 106.

Coculo L, et al. (2025) Interplay between ALK2R206H mutant receptor and autophagy signaling regulates receptor stability and its chondrogenic functions. *Cell death discovery*, 11(1), 117.

Akhtar A, et al. (2025) Bioengineering the metabolic network of CAR T cells with GLP-1 and Urolithin A increases persistence and long-term anti-tumor activity. *Cell reports. Medicine*, 6(3), 102021.

DeLiberty JM, et al. (2025) Concurrent Inhibition of the RAS-MAPK Pathway and PIKfyve Is a Therapeutic Strategy for Pancreatic Cancer. *Cancer research*, 85(8), 1479.

Cheng C, et al. (2025) Targeting PIKfyve-driven lipid metabolism in pancreatic cancer. *Nature*, 642(8068), 776.

Bhupana JN, et al. (2025) Endolysosomal processing of neuron-derived signaling lipids regulates autophagy and lipid droplet degradation in astrocytes. *Nature communications*, 16(1), 5073.

Oh SW, et al. (2025) The Role of MRGPRX1 in the Melanogenesis of Human Primary Epidermal Melanocytes. *The Journal of investigative dermatology*.

Woo K, et al. (2025) *Acinetobacter baumannii* OmpA hinders host autophagy via the CaMKK2-reliant AMPK-pathway. *mBio*, 16(4), e0336924.

Kondo N, et al. (2025) The autophagy component LC3 regulates lymphocyte adhesion via LFA1 transport in response to outside-in signaling. *Nature communications*, 16(1), 1343.

Fu BXH, et al. (2025) Loss of Fanconi anemia proteins causes a reliance on lysosomal exocytosis. *Cell death & disease*, 16(1), 791.

Sung CC, et al. (2024) The role of polo-like kinases 2 in the proteasomal and lysosomal degradation of alpha-synuclein in neurons. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 38(20), e70121.