

# Resource Summary Report

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## pMRX-IP-GFP-LC3-RFP

RRID:Addgene\_84573

Type: Plasmid

### Proper Citation

RRID:Addgene\_84573

### Plasmid Information

**URL:** <http://www.addgene.org/84573>

**Proper Citation:** RRID:Addgene\_84573

**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

**Record Creation Time:** 20220422T222545+0000

**Record Last Update:** 20260815T082117+0000

### Ratings and Alerts

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

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

### Data and Source Information

**Source:** [Addgene](#)

### Usage and Citation Metrics

We found 38 mentions in open access literature.

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

Roy P, et al. (2026) A stress-induced PI3P complex controls autophagy in erythroid precursors. *iScience*, 29(4), 115182.

Dematteis G, et al. (2025) Rescue of protein dyshomeostasis in hippocampal astrocytes from an Alzheimer's disease mouse model by stabilizing ER-mitochondrial interactions at a 20 nm distance. *Alzheimer's research & therapy*, 17(1), 148.

Buonomo V, et al. (2025) Two FAM134B isoforms differentially regulate ER dynamics during myogenesis. *The EMBO journal*, 44(4), 1039.

Saleiro D, et al. (2025) Loss of Function Mouse Models Reveal a Novel Regulatory Function for ULK1 in Myeloproliferative Neoplasms. *Molecular and cellular biology*, 45(9), 395.

Xie M, et al. (2025) Artemisinin synergizes with CCCP in autophagic cell death induction via ER stress in uveal melanoma. *iScience*, 28(8), 112972.

Shin J, et al. (2025) Growth factor-independent mTORC1 signaling promotes primary cilia length via suppression of autophagy. *iScience*, 28(12), 114204.

Zhao DY, et al. (2024) Autophagy preferentially degrades non-fibrillar polyQ aggregates. *Molecular cell*, 84(10), 1980.

Brobbe C, et al. (2023) Autophagy dictates sensitivity to PRMT5 inhibitor in breast cancer. *Scientific reports*, 13(1), 10752.

Jassey A, et al. (2023) Starvation after infection restricts enterovirus D68 replication. *Autophagy*, 19(1), 112.

Du Y, et al. (2023) Tex2 is required for lysosomal functions at TMEM55-dependent ER membrane contact sites. *The Journal of cell biology*, 222(4).

Huang Z, et al. (2023) CRISPR/Cas9-mediated inactivation of miR-34a and miR-34b/c in HCT116 colorectal cancer cells: comprehensive characterization after exposure to 5-FU reveals EMT and autophagy as key processes regulated by miR-34. *Cell death and differentiation*, 30(8), 2017.

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

Wang F, et al. (2022) Follicular lymphoma-associated mutations in the V-ATPase chaperone VMA21 activate autophagy creating a targetable dependency. *Autophagy*, 18(8), 1982.

Wang Y, et al. (2022) Integrated regulation of stress responses, autophagy and survival by altered intracellular iron stores. *Redox biology*, 55, 102407.

Yu PW, et al. (2022) EGCG Restricts PRRSV Proliferation by Disturbing Lipid Metabolism. *Microbiology spectrum*, 10(2), e0227621.

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.

Zhu L, et al. (2022) A clinically compatible drug-screening platform based on organotypic cultures identifies vulnerabilities to prevent and treat brain metastasis. *EMBO molecular medicine*, 14(3), e14552.

Qi J, et al. (2021) MCOLN1/TRPML1 finely controls oncogenic autophagy in cancer by mediating zinc influx. *Autophagy*, 17(12), 4401.

Yuizumi N, et al. (2021) Maintenance of neural stem-progenitor cells by the lysosomal biosynthesis regulators TFEB and TFE3 in the embryonic mouse telencephalon. *Stem cells (Dayton, Ohio)*, 39(7), 929.

Zehender A, et al. (2021) TGF $\beta$  promotes fibrosis by MYST1-dependent epigenetic regulation of autophagy. *Nature communications*, 12(1), 4404.