

Resource Summary Report

Generated by [SPARC SAWG](#) on Sep 4, 2026

pBABEpuro GFP-LC3

RRID:Addgene_22405

Type: Plasmid

Proper Citation

RRID:Addgene_22405

Plasmid Information

URL: <http://www.addgene.org/22405>

Proper Citation: RRID:Addgene_22405

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

Organism: Rattus norvegicus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:18094039](#)

Vector Backbone Description: Backbone Marker:Addgene plasmid # 1764; Backbone Size:5169; Vector Backbone:pBABE-puro; Vector Types:Mammalian Expression, Retroviral; Bacterial Resistance:Ampicillin

Comments: LC3, a mammalian homologue of yeast Apg8p, is localized in autophagosome membranes after processing. Kabeya Y et al. (EMBO J. 2000 Nov 1. 19(21):5720-8.

Plasmid Name: pBABEpuro GFP-LC3

Record Creation Time: 20220422T222059+0000

Record Last Update: 20260829T080220+0000

Ratings and Alerts

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

No alerts have been found for pBABEpuro GFP-LC3.

Data and Source Information

Usage and Citation Metrics

We found 98 mentions in open access literature.

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

White J, et al. (2025) Phosphorylation of the selective autophagy receptor TAX1BP1 by TBK1 and IKBKE/IKKi promotes ATG8-family protein-dependent clearance of MAVS aggregates. *Autophagy*, 21(1), 160.

Drosen ME, et al. (2025) Inactivation of ATG13 stimulates chronic demyelinating pathologies in muscle-serving nerves and spinal cord. *Immunologic research*, 73(1), 27.

Liu X, et al. (2025) Calnexin promotes glioblastoma progression by inducing protective mitophagy through the MEK/ERK/BNIP3 pathway. *Theranostics*, 15(6), 2624.

Sikder K, et al. (2024) Perinuclear damage from nuclear envelope deterioration elicits stress responses that contribute to LMNA cardiomyopathy. *Science advances*, 10(19), eadh0798.

Xu Z, et al. (2024) THSD1 Suppresses Autophagy-Mediated Focal Adhesion Turnover by Modulating the FAK-Beclin 1 Pathway. *International journal of molecular sciences*, 25(4).

Guo Y, et al. (2023) Elevated levels of FMRP-target MAP1B impair human and mouse neuronal development and mouse social behaviors via autophagy pathway. *Nature communications*, 14(1), 3801.

Ren Z, et al. (2023) Identification of Fangchinoline as a novel autophagy inhibitor with an adjuvant of chemotherapy against lung cancer. *Toxicology and applied pharmacology*, 477, 116679.

Shah H, et al. (2023) Autolysosomal activation combined with lysosomal destabilization efficiently targets myeloid leukemia cells for cell death. *Frontiers in oncology*, 13, 999738.

Wang L, et al. (2023) LncRP11-675F6.3 responds to rapamycin treatment and reduces triglyceride accumulation via interacting with HK1 in hepatocytes by regulating autophagy and VLDL-related proteins. *Acta biochimica et biophysica Sinica*, 55(10), 1606.

Gardner JO, et al. (2023) LC3-dependent EV loading and secretion (LDELS) promotes TFRC (transferrin receptor) secretion via extracellular vesicles. *Autophagy*, 19(5), 1551.

Tang B, et al. (2023) MicroRNA-31 induced by *Fusobacterium nucleatum* infection promotes colorectal cancer tumorigenesis. *iScience*, 26(5), 106770.

Sun R, et al. (2022) Paeoniflorin Ameliorates BiPN by Reducing IL6 Levels and Regulating PARKIN-Mediated Mitochondrial Autophagy. *Drug design, development and therapy*, 16, 2241.

Me??e O, et al. (2022) Lipid droplet degradation by autophagy connects mitochondria metabolism to Prox1-driven expression of lymphatic genes and lymphangiogenesis. *Nature communications*, 13(1), 2760.

Bhutda S, et al. (2022) Differential Ubiquitination as an Effective Strategy Employed by the Blood-Brain Barrier for Prevention of Bacterial Transcytosis. *Journal of bacteriology*, 204(1), e0045621.

Akter E, et al. (2022) Non-degradable autophagic vacuoles are indispensable for cell competition. *Cell reports*, 40(9), 111292.

Li B, et al. (2021) Nanomechanical Induction of Autophagy-Related Fluorescence in Single Cells with Atomic Force Microscopy. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 8(24), e2102989.

Kedra J, et al. (2021) Axotomy Induces Drp1-Dependent Fragmentation of Axonal Mitochondria. *Frontiers in molecular neuroscience*, 14, 668670.

Nagano T, et al. (2021) LY6D-induced macropinocytosis as a survival mechanism of senescent cells. *The Journal of biological chemistry*, 296, 100049.

Su Y, et al. (2021) Role and dynamics of vacuolar pH during cell-in-cell mediated death. *Cell death & disease*, 12(1), 119.

Kuramoto K, et al. (2021) The autophagy protein Becn1 improves insulin sensitivity by promoting adiponectin secretion via exocyst binding. *Cell reports*, 35(8), 109184.