Resource Summary Report

Generated by NIF on Sep 13, 2026

B6.Cg-Tg(CAG-GFP/LC3)53Nmz/NmzRbrc

RRID:IMSR_RBRC00806
Type: Organism

Proper Citation

RRID:IMSR_RBRC00806

Organism Information

URL: https://brc.riken.jp/mus/RBRC00806

Proper Citation: RRID:IMSR_RBRC00806

Description: Mus musculus with name B6.Cg-Tg(CAG-GFP/LC3)53Nmz/NmzRbrc from IMSR.

Species: Mus musculus

Notes: gene symbol note: microtubule-associated protein 1 light chain 3 beta|transgene insertion 53; Noboru Mizushima|; mutant strain|congenic strain: Map1lc3b|Tg(CAG-EGFP/Map1lc3b)53Nmz|

Affected Gene: microtubule-associated protein 1 light chain 3 beta|transgene insertion 53; Noboru Mizushima|

Genomic Alteration: microtubule-associated protein 1 light chain 3 beta|transgene insertion 53; Noboru Mizushima|

Catalog Number: RBRC00806

Database: RIKEN BioResource Research Center

Database Abbreviation: RBRC

Availability: embryo

Organism Name: B6.Cg-Tg(CAG-GFP/LC3)53Nmz/NmzRbrc

Record Creation Time: 20250513T061432+0000

Record Last Update: 20260912T064250+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Tg(CAG-GFP/LC3)53Nmz/NmzRbrc.

No alerts have been found for B6.Cg-Tg(CAG-GFP/LC3)53Nmz/NmzRbrc.

Data and Source Information

Source: Integrated Animals

Source Database: RIKEN BioResource Research Center

Usage and Citation Metrics

We found 11 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF .

Tsong H, et al. (2026) PP2A and CDK16 antagonistically regulate WIPI2B phosphorylation and neuronal autophagosome biogenesis. bioRxiv : the preprint server for biology.

Rodriguez MN, et al. (2025) Sex does not influence neuronal autophagosome biogenesis throughout aging in mice. Molecular biology of the cell, 36(11), ar135.

Mehrabani-Tabari AA, et al. (2025) Inhibition of autophagy-lysosomal function exacerbates microglial and monocyte lipid metabolism reprograming and dysfunction after brain injury. bioRxiv : the preprint server for biology.

Jimenez-Cyrus D, et al. (2024) Molecular cascade reveals sequential milestones underlying hippocampal neural stem cell development into an adult state. Cell reports, 43(6), 114339.

Tsong H, et al. (2023) Aging Differentially Affects Axonal Autophagosome Formation and Maturation. Autophagy, 19(12), 3079.

Akoumianaki T, et al. (2021) Uncoupling of IL-6 signaling and LC3-associated phagocytosis drives immunoparalysis during sepsis. Cell host & microbe, 29(8), 1277.

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

Pan Y, et al. (2021) Neuronal activity recruits the CRTC1/CREB axis to drive transcription-dependent autophagy for maintaining late-phase LTD. Cell reports, 36(3), 109398.

Marsh T, et al. (2020) Autophagic Degradation of NBR1 Restricts Metastatic Outgrowth during Mammary Tumor Progression. Developmental cell, 52(5), 591.

Stavoe AK, et al. (2019) Expression of WIPI2B counteracts age-related decline in autophagosome biogenesis in neurons. eLife, 8.

Hylin MJ, et al. (2018) A role for autophagy in long-term spatial memory formation in male rodents. Journal of neuroscience research, 96(3), 416.