

Resource Summary Report

Generated by [NIF](#) on Sep 17, 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 reprogramming 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.