

# Resource Summary Report

Generated by [NIF](#) on Aug 30, 2026

## C57BL/6-Tg(CAG-RFP/EGFP/Map1lc3b)1Hill/J

RRID:IMSR\_JAX:027139

Type: Organism

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### Proper Citation

RRID:IMSR\_JAX:027139

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### Organism Information

**URL:** <https://www.jax.org/strain/027139>

**Proper Citation:** RRID:IMSR\_JAX:027139

**Description:** Mus musculus with name C57BL/6-Tg(CAG-RFP/EGFP/Map1lc3b)1Hill/J from IMSR.

**Species:** Mus musculus

**Synonyms:** C57BL/6-Tg(CAG-RFP/GFP/Map1lc3b)1Hill/J

**Notes:** gene symbol note: transgene insertion 1; Joseph Hill||microtubule-associated protein 1 light chain 3 beta; coisogenic strain|mutant strain: Tg(CAG-RFP/EGFP/Map1lc3b)1Hill||Map1lc3b

**Affected Gene:** transgene insertion 1; Joseph Hill||microtubule-associated protein 1 light chain 3 beta

**Genomic Alteration:** transgene insertion 1; Joseph Hill

**Catalog Number:** JAX:027139

**Database:** JAX Mice and Services

**Database Abbreviation:** JAX

**Availability:** live

**Organism Name:** C57BL/6-Tg(CAG-RFP/EGFP/Map1lc3b)1Hill/J

**Record Creation Time:** 20250513T053759+0000

**Record Last Update:** 20260829T045104+0000

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### Ratings and Alerts

No rating or validation information has been found for C57BL/6-Tg(CAG-RFP/EGFP/Map1lc3b)1Hill/J.

No alerts have been found for C57BL/6-Tg(CAG-RFP/EGFP/Map1lc3b)1Hill/J.

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## Data and Source Information

**Source:** [Integrated Animals](#)

**Source Database:** JAX Mice and Services

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## Usage and Citation Metrics

We found 13 mentions in open access literature.

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

Mayr L, et al. (2026) Chronic enteritis triggered by diet westernization is driven by epithelial ATG16L1-mediated autophagy. *Autophagy*, 1.

Menezes-Silva L, et al. (2026) Hormonal rewiring of immunity during dietary restriction ensures host defense and systemic glucose conservation. *Immunity*, 59(3), 700.

Tian X, et al. (2026) Psychological stress drives aging-like hematopoietic stem cell dysfunction through a brain-gut-bone marrow axis. *Cell stem cell*, 33(7), 1205.

Folguieri MS, et al. (2025) The earliest impact of restricted protein intake during pregnancy on heart development in male mouse offspring. *Frontiers in cell and developmental biology*, 13, 1678126.

Patel M, et al. (2025) C-X-C Motif Chemokine 10/C-X-C Motif Chemokine Receptor 3 Signaling Induces Neural Senescence and Cognitive Impairments. *ACS pharmacology & translational science*, 8(9), 2908.

Carosi JM, et al. (2025) Autophagy across tissues of aging mice. *PloS one*, 20(6), e0325505.

Höfs L, et al. (2025) PLEKHM1 Overexpression Impairs Autophagy and Exacerbates Neurodegeneration in rAAV-?-Synuclein Mice. *Cells*, 14(17).

Fan RZ, et al. (2024) A partial Drp1 knockout improves autophagy flux independent of mitochondrial function. *Molecular neurodegeneration*, 19(1), 26.

Chua BA, et al. (2023) Hematopoietic stem cells preferentially traffic misfolded proteins to aggresomes and depend on aggrephagy to maintain protein homeostasis. *Cell stem cell*, 30(4), 460.

Hilverling A, et al. (2022) Maturing Autophagosomes are Transported Towards the Cell Periphery. *Cellular and molecular neurobiology*, 42(1), 155.

Chakraborty P, et al. (2022) Carbon Monoxide Activates PERK-Regulated Autophagy to Induce Immunometabolic Reprogramming and Boost Antitumor T-cell Function. *Cancer research*, 82(10), 1969.

Bensalem J, et al. (2021) Inhibiting mTOR activity using AZD2014 increases autophagy in the mouse cerebral cortex. *Neuropharmacology*, 190, 108541.

Ash D, et al. (2021) The P-type ATPase transporter ATP7A promotes angiogenesis by limiting autophagic degradation of VEGFR2. *Nature communications*, 12(1), 3091.