

Resource Summary Report

Generated by [FDI Lab - SciCrunch.org](#) on Apr 27, 2025

SJ4100

RRID:WB-STRAIN:WBStrain00034068

Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00034068

Organism Information

URL: <http://www.wormbase.org/db/get?name=WBStrain00034068>

Proper Citation: RRID:WB-STRAIN:WBStrain00034068

Description: Caenorhabditis elegans with name zcls13(Phsp-6::GFP)/V from WB.

Species: Caenorhabditis elegans

Synonyms: zcls13(Phsp-6::GFP)/V

Notes: Generated from papers flagged positive during the last month for data type afp_strain/other_strain.|"Reference WBPaper00060516 added based on published strain data identified by Textpresso literature search."|"Supplementary_genotype hsp-6::GFP zcls13[hsp-6::GFP] V|"Supplementary_genotype zcls13|"Supplementary_genotype zcls13[hsp-6::GFP] V|"WBStrain mapped, WBPaper00057239 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00059596 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00060638 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00061409 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00061527 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00061562 added based on AFP_Strain data."|"WBStrain provided so WBPaper00059545 paper added based on AFP_Strain data."|"WBStrain provided so WBPaper00061178 paper added based on AFP_Strain data."|"WBStrain provided so WBPaper00061805 paper added based on AFP_Strain data."|"WBStrain provided so WBPaper00061852 paper added based on AFP_Strain data."|"WBStrain provided so WBPaper00061870 paper added based on AFP_Strain data."|"zcls13 [hsp-6p::GFP + lin-15(+)]. Stable transgenic line with GFP expression mainly in the tail, observed from L1 to adult. Induced by perturbations of mitochondrial folding environment."

Affected Gene: WBGene00002010(hsp-6)

Genomic Alteration: WBGene00002010(hsp-6)

Catalog Number: WB-STRAIN:WBStrain00034068

Database: WormBase (WB)

Database Abbreviation: WB

Availability: live

Source References:

WBPaper00057239(PMID:31444089)WBPaper00059545(PMID:32294300)WBPaper00059596(PMID:3

Alternate IDs: WB-STRAIN:SJ4100

Organism Name: SJ4100

Record Creation Time: 20230227T013636+0000

Record Last Update: 20250419T234345+0000

Ratings and Alerts

No rating or validation information has been found for SJ4100.

No alerts have been found for SJ4100.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: WormBase (WB)

Usage and Citation Metrics

We found 16 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Wang C, et al. (2024) Metabolic rescue of α -synuclein-induced neurodegeneration through propionate supplementation and intestine-neuron signaling in *C. elegans*. *Cell reports*, 43(3), 113865.

- Wu Y, et al. (2024) Antibiotics Trigger Host Innate Immune Response via Microbiota-Brain Communication in *C. elegans*. *International journal of molecular sciences*, 25(16).
- Gao AW, et al. (2024) High-content phenotypic analysis of a *C. elegans* recombinant inbred population identifies genetic and molecular regulators of lifespan. *bioRxiv : the preprint server for biology*.
- Pu X, et al. (2024) Lysosomal dysfunction by inactivation of V-ATPase drives innate immune response in *C. elegans*. *Cell reports*, 43(5), 114138.
- Li B, et al. (2024) Phloretic acid requires the insulin/IGF-1 pathway and autophagy to enhance stress resistance and extend the lifespan of *Caenorhabditis elegans*. *Frontiers in pharmacology*, 15, 1384227.
- Liu P, et al. (2024) UPRER-immunity axis acts as physiological food evaluation system that promotes aversion behavior in sensing low-quality food. *eLife*, 13.
- Wen YP, et al. (2024) Exploring the therapeutic potential of *Nelumbo nucifera* leaf extract against amyloid-beta-induced toxicity in the *Caenorhabditis elegans* model of Alzheimer's disease. *Frontiers in pharmacology*, 15, 1408031.
- Sharifi S, et al. (2024) Reducing the metabolic burden of rRNA synthesis promotes healthy longevity in *Caenorhabditis elegans*. *Nature communications*, 15(1), 1702.
- Tsai SH, et al. (2024) Peripheral peroxisomal β -oxidation engages neuronal serotonin signaling to drive stress-induced aversive memory in *C. elegans*. *Cell reports*, 43(4), 113996.
- Shen K, et al. (2024) The germline coordinates mitokine signaling. *Cell*, 187(17), 4605.
- Hao F, et al. (2024) Bacterial peptidoglycan acts as a digestive signal mediating host adaptation to diverse food resources in *C. elegans*. *Nature communications*, 15(1), 3286.
- Zhang H, et al. (2024) The extracellular matrix integrates mitochondrial homeostasis. *Cell*, 187(16), 4289.
- Yang R, et al. (2022) NHR-80 senses the mitochondrial UPR to rewire citrate metabolism for lipid accumulation in *Caenorhabditis elegans*. *Cell reports*, 38(2), 110206.
- Gao AW, et al. (2022) Multi-omics analysis identifies essential regulators of mitochondrial stress response in two wild-type *C. elegans* strains. *iScience*, 25(2), 103734.
- Rackles E, et al. (2021) Reduced peroxisomal import triggers peroxisomal retrograde signaling. *Cell reports*, 34(3), 108653.
- Rolland SG, et al. (2019) Compromised Mitochondrial Protein Import Acts as a Signal for UPRmt. *Cell reports*, 28(7), 1659.