

Resource Summary Report

Generated by [dkNET](#) on Aug 24, 2026

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: available

Source References: [PMID:31444089](#), [PMID:32294300](#), [PMID:32306217](#), [PMID:32600387](#), [PMID:33087356](#), [PMID:33216250](#), [PMID:33319173](#), [PMID:33718883](#), [PMID:34172445](#), [PMID:34407398](#), [PMID:34449775](#), [PMID:34467850](#), [PMID:35045336](#), [PMID:37120065](#), [PMID:37118502](#), [PMID:37549461](#), [PMID:37910615](#), [PMID:37980357](#), [PMID:38253120](#), [PMID:38301974](#), [PMID:38361361](#), [PMID:38520690](#), [PMID:38569037](#), [PMID:38852157](#), [PMID:38746662](#), [PMID:38983916](#), [PMID:39235964](#), [PMID:39368088](#), [PMID:40191444](#)

Alternate IDs: WB-STRAIN:SJ4100, CGC_SJ4100

Organism Name: SJ4100

Record Creation Time: 20230227T013636+0000

Record Last Update: 20260815T163229+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 42 mentions in open access literature.

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

Clay KJ, et al. (2026) Atypical tetracyclines promote longevity and ferroptotic neuroprotection via translation attenuation. bioRxiv : the preprint server for biology.

Xue D, et al. (2026) Histone methyltransferase SET-18/SMYD2-mediated activation of NADase TIR-1d/SARM1 increases mtROS to promote aging. iScience, 29(2), 114649.

Peters L, et al. (2025) Polyketide synthase-derived sphingolipids mediate microbiota protection against a bacterial pathogen in C. elegans. Nature communications, 16(1), 5151.

Engelfriet ML, et al. (2025) Reprogramming gene expression in 'hibernating' *C. elegans* involves the IRE-1/XBP-1 pathway. *eLife*, 13.

Hu IM, et al. (2025) Immuno-metabolic stress responses control longevity from mitochondrial translation inhibition in *C. elegans*. *Nature communications*, 16(1), 6083.

Das P, et al. (2025) Iron-deplete diet enhances *Caenorhabditis elegans* lifespan via oxidative stress response pathways. *The EMBO journal*, 44(24), 7565.

Das P, et al. (2025) Iron-deplete diet enhances *Caenorhabditis elegans* lifespan via oxidative stress response pathways. *bioRxiv : the preprint server for biology*.

Li J, et al. (2025) TMBIM-2 orchestrates systemic mitochondrial stress response via facilitating Ca^{2+} oscillations. *The Journal of cell biology*, 224(5).

Pohl F, et al. (2025) Environmental NaCl affects *C. elegans* development and aging. *bioRxiv : the preprint server for biology*.

Li G, et al. (2025) A gut-brain-gut axis orchestrates host responses counteracting microbiome-induced iron insufficiency. *The EMBO journal*, 44(24), 7590.

Cornell R, et al. (2025) Gas-sensing neurons prime mitochondrial fitness to offset metabolic stress. *bioRxiv : the preprint server for biology*.

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*.

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).

Liu Y, et al. (2024) Neuronal PRDX-2-Mediated ROS Signaling Regulates Food Digestion via peripheral UPRmt Activation. *Nature communications*, 15(1), 10582.

Chen TY, et al. (2024) Mitochondrial S-adenosylmethionine deficiency induces mitochondrial unfolded protein response and extends lifespan in *Caenorhabditis elegans*. *Aging cell*, 23(4), e14103.

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.

Pees B, et al. (2024) The *Caenorhabditis elegans* proteome response to two protective *Pseudomonas* symbionts. *mBio*, 15(4), e0346323.

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.

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.