Resource Summary Report

Generated by dkNET on Jul 31, 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 zcIs13(Phsp-6::GFP)/V from WB.

Species: Caenorhabditis elegans

Synonyms: zcIs13(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 zcIs13[hsp-6::GFP] V"|"Supplementary_genotype zcIs13"|"Supplementary_genotype zcIs13[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."|"zcIs13 [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: 20260725T172336+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 27 mentions in open access literature.

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

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

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

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

Li J, et al. (2025) TMBIM-2 orchestrates systemic mitochondrial stress response via facilitating Ca2+ oscillations. The Journal of cell biology, 224(5).

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.

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.

Tsai SH, et al. (2024) Peripheral peroxisomal ?-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.

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

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.

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.

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

Zhou L, et al. (2024) Temperature perception by ER UPR promotes preventive innate immunity and longevity. Cell reports, 43(12), 115071.

Sharifi S, et al. (2024) Reducing the metabolic burden of rRNA synthesis promotes healthy longevity in Caenorhabditis elegans. Nature communications, 15(1), 1702.

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.

Cornell R, et al. (2024) Neuro-intestinal acetylcholine signalling regulates the mitochondrial stress response in Caenorhabditis elegans. Nature communications, 15(1), 6594.