

Resource Summary Report

Generated by [dkNET](#) on Sep 7, 2026

SJ4143

RRID:WB-STRAIN:WBStrain00034070

Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00034070

Organism Information

URL: <http://www.wormbase.org/db/get?name=WBStrain00034070>

Proper Citation: RRID:WB-STRAIN:WBStrain00034070

Description: Caenorhabditis elegans with name zcls17. from WB.

Species: Caenorhabditis elegans

Synonyms: zcls17.

Notes: Reference WBPaper00060516 added based on published strain data identified by Textpresso literature search.["Supplementary_genotype zcls17 [ges-1::GFP(mit)]"]["WBStrain mapped, WBPaper00061409 added based on AFP_Strain data."]["WBStrain mapped, WBPaper00061527 added based on AFP_Strain data."]["WBStrain provided so WBPaper00060426 paper added based on AFP_Strain data."]["WBStrain provided so WBPaper00061870 paper added based on AFP_Strain data."]["zcls17 [ges-1::GFP(mit)]. Stable transgenic line expressing GFP in mitochondria of intestinal cells."

Affected Gene: WBGene00001578(ges-1)

Genomic Alteration: WBGene00001578(ges-1)

Catalog Number: WB-STRAIN:WBStrain00034070

Database: WormBase (WB)

Database Abbreviation: WB

Availability: available

Source References: [PMID:33087356](#), [PMID:34467850](#), [PMID:36774344](#), [PMID:37427543](#), [PMID:37828862](#), [PMID:37957360](#), [PMID:38790689](#)

Alternate IDs: WB-STRAIN: SJ4143, CGC_ SJ4143

Organism Name: SJ4143

Record Creation Time: 20230227T013636+0000

Record Last Update: 20260905T115309+0000

Ratings and Alerts

No rating or validation information has been found for SJ4143.

No alerts have been found for SJ4143.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: WormBase (WB)

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

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

Kim J, et al. (2024) Cross comparison of imaging strategies of mitochondria in *C. elegans* during aging. *bioRxiv : the preprint server for biology*.

Zhang A, et al. (2023) Unraveling effects of anti-aging drugs on *C. elegans* using liposomes. *GeroScience*, 45(3), 1583.

Chen X, et al. (2023) Impaired mitophagosome-lysosome fusion mediates olanzapine-induced aging. *Aging cell*, 22(11), e14003.

Daskalaki I, et al. (2023) Local coordination of mRNA storage and degradation near mitochondria modulates *C. elegans* ageing. *The EMBO journal*, 42(16), e112446.

Mirza Z, et al. (2023) A bacterial pathogen induces developmental slowing by high reactive oxygen species and mitochondrial dysfunction in *Caenorhabditis elegans*. *Cell reports*, 42(10), 113189.

Chamoli M, et al. (2023) A drug-like molecule engages nuclear hormone receptor DAF-12/FXR to regulate mitophagy and extend lifespan. *Nature aging*, 3(12), 1529.

Ogurusu T, et al. (2021) The *Caenorhabditis elegans* homolog of human mitochondrial pyrimidine nucleotide transporter regulates glucose transport. *Biochemical and biophysical*

research communications, 557, 117.

Vatner DE, et al. (2018) Enhanced longevity and metabolism by brown adipose tissue with disruption of the regulator of G protein signaling 14. *Aging cell*, 17(4), e12751.