Resource Summary Report

Generated by NIF on Aug 11, 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 zcIs17. from WB.

Species: Caenorhabditis elegans

Synonyms: zcIs17.

Notes: Reference WBPaper00060516 added based on published strain data identified by Textpresso literature search.|"Supplementary_genotype zcIs17 [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."|"zcIs17 [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: 20260808T171442+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 NIF .

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.