

Resource Summary Report

Generated by [NIF](#) on Jul 30, 2026

CL2166

RRID:WB-STRAIN:WBStrain00005102

Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00005102

Organism Information

URL: <http://www.wormbase.org/db/get?name=WBStrain00005102>

Proper Citation: RRID:WB-STRAIN:WBStrain00005102

Description: Caenorhabditis elegans with name dvIs19 [(pAF15)gst-4p::GFP::NLS] III. from WB.

Species: Caenorhabditis elegans

Synonyms: dvIs19 [(pAF15)gst-4p::GFP::NLS] III.

Notes: dvIs19 [(pAF15)gst-4p::GFP::NLS] III. Oxidative stress-inducible GFP.|"Reference WBPaper00054805 added based on published strain data identified by Textpresso literature search."|"Reference WBPaper00057197 added based on published strain data identified by Textpresso literature search."|"Reference WBPaper00057259 added based on published strain data identified by Textpresso literature search."|"Reference WBPaper00058621 added based on published strain data identified by Textpresso literature search."|"Reference WBPaper00058851 added based on published strain data identified by Textpresso literature search."|"Supplementary_genotype (dvIs19[pAF15(gst-4::GFP::NLS)])|"Supplementary_genotype dvIs19 [(pAF15)gst-4p::GFP::NLS] III|"Supplementary_genotype dvIs19[(pAF15)gst-4p::GFP::NLS]"|"Supplementary_genotype gst-4::GFP dvIs19 [(pAF15)gst-4p::GFP::NLS] III|"Supplementary_genotype gst-4p::GFP|"WBStrain mapped, WBPaper00059548 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00060449 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00060456 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00060486 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00060545 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00060669 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00060692 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00060778 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00060797 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00060840 added based on AFP_Strain

data."|"WBStrain mapped, WBPaper00060896 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00060924 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00060976 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00061045 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00061159 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00061220 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00061236 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00061385 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00061436 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00061452 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00061495 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00061547 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00061584 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00061641 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00061671 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00061869 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00061871 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00061890 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00061895 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00061902 added based on AFP_Strain data."|"WBStrain provided so WBPaper00059545 paper added based on AFP_Strain data."|"WBStrain provided so WBPaper00060797 paper added based on AFP_Strain data."

Affected Gene: WBGene00001752(gst-4)

Genomic Alteration: WBGene00001752(gst-4)

Catalog Number: WB-STRAIN:WBStrain00005102

Database: WormBase (WB)

Database Abbreviation: WB

Availability: available

Source References: [PMID:12757851](#), [PMID:29956725](#), [PMID:31409866](#), [PMID:31432005](#), [PMID:31510078](#), [PMID:31717869](#), [PMID:31735670](#), [PMID:32294300](#), [PMID:32600387](#), [PMID:33008901](#), [PMID:32163353](#), [PMID:33471780](#), [PMID:33789349](#), [PMID:33809299](#), [PMID:33883621](#), [PMID:34505574](#), [PMID:35602005](#), [PMID:36791646](#), [PMID:37099597](#), [PMID:37416472](#), [PMID:37427543](#), [PMID:37488107](#), [PMID:37549461](#), [PMID:37606250](#), [PMID:37726773](#), [PMID:37751046](#), [PMID:37902464](#), [PMID:37910615](#), [PMID:38632209](#), [PMID:38799567](#), [PMID:38754743](#), [PMID:38889876](#), [PMID:38983916](#), [PMID:38991033](#), [PMID:39169052](#), [PMID:39164296](#), [PMID:39264947](#), [PMID:39097626](#), [PMID:39420966](#), [PMID:39561954](#), [PMID:39560153](#)

Alternate IDs: WB-STRAIN:CL2166, CGC_CL2166

Organism Name: CL2166

Record Creation Time: 20230227T013257+0000

Record Last Update: 20260725T171705+0000

Ratings and Alerts

No rating or validation information has been found for CL2166.

No alerts have been found for CL2166.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: WormBase (WB)

Usage and Citation Metrics

We found 32 mentions in open access literature.

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

Chaturbedi A, et al. (2025) Different gametogenesis states uniquely impact longevity in *Caenorhabditis elegans*. *Nature communications*, 16(1), 9300.

Al-Kaabi A, et al. (2025) Thiostrepton induces apoptotic cell death at the level of BCL-2/CED-9 in *C. elegans*. *Scientific reports*, 15(1), 24415.

Jochim B, et al. (2025) Protein sequence editing defines distinct and overlapping functions of SKN-1A/Nrf1 and SKN-1C/Nrf2. *PLoS genetics*, 21(7), e1011780.

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

Zhang J, et al. (2025) Structure-activity relationship of ginsenoside derivatives with different glycosides and double bond position on anti-aging bioactivities. *Journal of ginseng research*, 49(5), 553.

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

Jochim BE, et al. (2025) Protein sequence editing defines distinct and overlapping functions of SKN-1A/Nrf1 and SKN-1C/Nrf2. *bioRxiv* : the preprint server for biology.

Xia Q, et al. (2024) Peroxiredoxin 2 regulates DAF-16/FOXO mediated mitochondrial remodelling in response to exercise that is disrupted in ageing. *Molecular metabolism*, 88, 102003.

Li W, et al. (2024) Low-dose naltrexone extends healthspan and lifespan in *C. elegans* via SKN-1 activation. *iScience*, 27(6), 109949.

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.
- Oorloff M, et al. (2024) Growth on stiffer substrates impacts animal health and longevity in *C. elegans*. *PloS one*, 19(9), e0302673.
- Yu X, et al. (2024) 4,4'-methylenediphenol reduces A β -induced toxicity in a *Caenorhabditis elegans* model of Alzheimer's disease. *Frontiers in aging neuroscience*, 16, 1393721.
- 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.
- Dutta N, et al. (2024) Investigating impacts of the mycothiazole chemotype as a chemical probe for the study of mitochondrial function and aging. *GeroScience*, 46(6), 6009.
- Yong Y, et al. (2024) A novel ferroptosis inhibitor, Thonningianin A, improves Alzheimer's disease by activating GPX4. *Theranostics*, 14(16), 6161.
- Yin X, et al. (2024) Cysteine protease cathepsin B promotes lysosome integrity to extend the lifespan of alternative day fasting worms. *Aging cell*, 23(11), e14286.
- Zhang H, et al. (2024) The extracellular matrix integrates mitochondrial homeostasis. *Cell*, 187(16), 4289.
- Nauta KM, et al. (2024) A high-throughput screening platform for discovering bacterial species and small molecules that modify animal physiology. *bioRxiv : the preprint server for biology*.
- Yu X, et al. (2024) P-hydroxybenzaldehyde protects *Caenorhabditis elegans* from oxidative stress and β -amyloid toxicity. *Frontiers in aging neuroscience*, 16, 1414956.