

Resource Summary Report

Generated by [dkNET](#) on Jul 31, 2026

CF1038

RRID:WB-STRAIN:WBStrain00004840

Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00004840

Organism Information

URL: <http://www.wormbase.org/db/get?name=WBStrain00004840>

Proper Citation: RRID:WB-STRAIN:WBStrain00004840

Description: Caenorhabditis elegans with name daf-16(mu86) from WB.

Species: Caenorhabditis elegans

Synonyms: daf-16(mu86)

Notes: 1098bp deletion:Deletes 5 exons|"Dauer defective. Short lived."|"Generated from papers flagged positive during the last month for data type afp_strain/other_strain."|"Made_by: C. Kenyon and K. Kin"|"Mutagen:TMP + UV"|"Mutagen:TMP+UV"|"outcrossed with N2 11 times by the Kenyon lab;"|"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 WBPaper00058832 added based on published strain data identified by Textpresso literature search."|"Reference WBPaper00059117 added based on published strain data identified by Textpresso literature search."|"Reference WBPaper00059256 added based on published strain data identified by Textpresso literature search."|"Reference WBPaper00059755 added based on published strain data identified by Textpresso literature search."|"Supplementary_genotype (daf-16(mu86)I)"|"Supplementary_genotype daf-16(mu86)"|"Supplementary_genotype daf-16(mu86)"|"Supplementary_genotype daf-16(mu86) I"|"Supplementary_genotype [daf-16(mu86) I.]"|"WBStrain mapped, WBPaper00059543 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00059548 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00059578 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00059850 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00060107 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,
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WBPaper00060669 added based on AFP_Strain data."|"WBStrain mapped,
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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
WBPaper00059679 paper added based on AFP_Strain data."

Affected Gene: WBGene00000912(daf-16)

Genomic Alteration: WBGene00000912(daf-16)

Catalog Number: WB-STRAIN:WBStrain00004840

Database: WormBase (WB)

Database Abbreviation: WB

Availability: available

Source References: [PMID:9360933](#), [PMID:31432005](#), [PMID:31510078](#), [PMID:31704915](#),
[PMID:31797327](#), [PMID:31940482](#), [PMID:32010481](#), [PMID:32289254](#), [PMID:32302543](#),
[PMID:32452864](#), [PMID:32482227](#), [PMID:32535316](#), [PMID:32575074](#), [PMID:32707947](#),
[PMID:32811254](#), [PMID:33009389](#), [PMID:33157031](#), [PMID:33319173](#), [PMID:33471780](#),
[PMID:33809299](#), [PMID:34038721](#), [PMID:34506301](#), [PMID:36626986](#), [PMID:36794357](#),
[PMID:36798906](#), [PMID:37118503](#), [PMID:37416472](#), [PMID:37122724](#), [PMID:37440595](#),
[PMID:37471418](#), [PMID:37566010](#), [PMID:37639584](#), [PMID:37704756](#), [PMID:37726773](#),

[PMID:37782016](#), [PMID:37892557](#), [PMID:37885348](#), [PMID:38483995](#), [PMID:38446031](#),
[PMID:38378098](#), [PMID:38510643](#), [PMID:38769103](#), [PMID:38799567](#), [PMID:38754743](#),
[PMID:39025156](#), [PMID:39164296](#), [PMID:39273603](#)

Alternate IDs: WB-STRAIN:CF1038, CGC_CF1038

Organism Name: CF1038

Record Creation Time: 20230227T013255+0000

Record Last Update: 20260725T171659+0000

Ratings and Alerts

No rating or validation information has been found for CF1038.

No alerts have been found for CF1038.

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](#) .

AlOkda A, et al. (2025) Cyrene: A Novel Geroprotective Compound that Extends Lifespan and Healthspan in *C. elegans* and *Drosophila*. 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.

Kloock A, et al. (2025) Intestinal RICT-1 regulates the larval germline progenitor pool via the vitellogenin VIT-3 in *C. elegans*. bioRxiv : the preprint server for biology.

Pradhan S, et al. (2025) Pathogen infection induces sickness behaviors through neuromodulators linked to stress and satiety in *C. elegans*. Nature communications, 16(1), 3200.

Banse SA, et al. (2025) Computer prediction and genetic analysis identifies retinoic acid modulation as a driver of conserved longevity pathways in genetically-diverse *Caenorhabditis* nematodes. bioRxiv : the preprint server for biology.

Zhao R, et al. (2025) CaMK modulates sensory neural activity to control longevity and proteostasis. Proceedings of the National Academy of Sciences of the United States of America, 122(20), e2423428122.

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.

Mackiewicz Z, et al. (2025) Excretory gland cell and NSPC genes in *C. elegans*: investigating their physiological roles. *Genetics*, 231(1).

Kishimoto S, et al. (2024) *Lactobacillus paracasei* subsp. *paracasei* 2004 improves health and lifespan in *Caenorhabditis elegans*. *Scientific reports*, 14(1), 10453.

Li L, et al. (2024) *Dendrobium Nobile* Alcohol Extract Extends the Lifespan of *Caenorhabditis elegans* via *hsf-1* and *daf-16*. *Molecules* (Basel, Switzerland), 29(4).

Haque R, et al. (2024) Sex-specific developmental gene expression atlas unveils dimorphic gene networks in *C. elegans*. *Nature communications*, 15(1), 4273.

Sun M, et al. (2024) TSG Extends the Longevity of *Caenorhabditis elegans* by Targeting the DAF-16/SKN-1/SIR-2.1-Mediated Mitochondrial Quality Control Process. *Antioxidants* (Basel, Switzerland), 13(9).

Otarigho B, et al. (2024) Neuronal NPR-15 modulates molecular and behavioral immune responses via the amphid sensory neuron-intestinal axis in *C. elegans*. *eLife*, 12.

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.

Snow S, et al. (2024) Neuronal CBP-1 is Required for Enhanced Body Muscle Proteostasis in Response to Reduced Translation Downstream of mTOR. *Frontiers in bioscience* (Landmark edition), 29(7), 264.

Di Bernardo M, et al. (2024) SHC-3: a previously unidentified *C. elegans* Shc family member functions in the insulin-like signaling pathway to enhance survival during L1 arrest. *Genetics*, 228(2).

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

Das P, et al. (2024) Calcineurin inhibition enhances *Caenorhabditis elegans* lifespan by defecation defects-mediated calorie restriction and nuclear hormone signaling. *eLife*, 12.

Godthi A, et al. (2024) Neuronal IL-17 controls *Caenorhabditis elegans* developmental diapause through CEP-1/p53. *Proceedings of the National Academy of Sciences of the United States of America*, 121(12), e2315248121.

Li H, et al. (2024) Dimethylsulfoniopropionate (DMSP) Increases Longevity and Mitochondrial Function in *Caenorhabditis elegans*: Implications for the Role of the Global Sulfur Cycle in Terrestrial Ecosystems. *Environment & health* (Washington, D.C.), 2(8), 572.