

Resource Summary Report

Generated by [NIF](#) on Aug 12, 2026

DA1116

RRID:WB-STRAIN:WBStrain00005548

Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00005548

Organism Information

URL: <http://www.wormbase.org/db/get?name=WBStrain00005548>

Proper Citation: RRID:WB-STRAIN:WBStrain00005548

Description: Caenorhabditis elegans with name eat-2(ad1116) II. from WB.

Species: Caenorhabditis elegans

Synonyms: eat-2(ad1116) II.

Notes: Eat. Slow pumping. Long lived. Embryonic lethality observed in a significant fraction of animals is likely explained by a mutation in an essential gene linked to eat-2["Reference WBPaper00058832 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 [eat-2(ad1116)]|"WBStrain mapped, WBPaper00060896 added based on AFP_Strain data."|"WBStrain provided so WBPaper00061750 paper added based on AFP_Strain data."]

Affected Gene: WBGene00001133(eat-2)

Genomic Alteration: WBGene00001133(eat-2)

Catalog Number: WB-STRAIN:WBStrain00005548

Database: WormBase (WB)

Database Abbreviation: WB

Availability: available

Source References: [PMID:31704915](#), [PMID:32482227](#), [PMID:32566245](#), [PMID:32978396](#), [PMID:33471780](#), [PMID:33666644](#), [PMID:34321666](#), [PMID:36653384](#), [PMID:37644339](#), [PMID:38869949](#), [PMID:39572679](#)

Alternate IDs: WB-STRAIN:DA1116, CGC_DA1116

Organism Name: DA1116

Record Creation Time: 20230227T013300+0000

Record Last Update: 20260808T170814+0000

Ratings and Alerts

No rating or validation information has been found for DA1116.

No alerts have been found for DA1116.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: WormBase (WB)

Usage and Citation Metrics

We found 35 mentions in open access literature.

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

Van Raamsdonk JM, et al. (2026) Mild mitochondrial impairment activates overlapping longevity pathways converging on the flavin-containing monooxygenase FMO-2. *Frontiers in aging*, 7, 1808540.

Van Raamsdonk JM, et al. (2026) Mild Mitochondrial Impairment Activates Overlapping Longevity Pathways Converging on the Flavin-Containing Monooxygenase FMO-2. *bioRxiv : the preprint server for biology*.

Franco-Romero A, et al. (2024) C16ORF70/MYTHO promotes healthy aging in C.elegans and prevents cellular senescence in mammals. *The Journal of clinical investigation*, 134(15).

Morrow CS, et al. (2024) Endogenous mitochondrial NAD(P)H fluorescence can predict lifespan. *Communications biology*, 7(1), 1551.

Rothi MH, et al. (2024) The 18S rRNA Methyltransferase DIMT-1 Regulates Lifespan in the Germline Later in Life. *Research square*.

Hafiz Rothi M, et al. (2024) The 18S rRNA Methyltransferase DIMT-1 Regulates Lifespan in the Germline Later in Life. *bioRxiv : the preprint server for biology*.

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),

Ciccarelli EJ, et al. (2024) BMP signaling to pharyngeal muscle in the *C. elegans* response to a bacterial pathogen regulates anti-microbial peptide expression and pharyngeal pumping. *Molecular biology of the cell*, 35(4), ar52.

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.

Suryawinata N, et al. (2024) Dietary *E. coli* promotes age-dependent chemotaxis decline in *C. elegans*. *Scientific reports*, 14(1), 5529.

Wang S, et al. (2023) APPA Increases Lifespan and Stress Resistance via Lipid Metabolism and Insulin/IGF-1 Signal Pathway in *Caenorhabditis elegans*. *International journal of molecular sciences*, 24(18).

Wu N, et al. (2023) The metabolite alpha-ketobutyrate extends lifespan by promoting peroxisomal function in *C. elegans*. *Nature communications*, 14(1), 240.

Hahm JH, et al. (2023) The innate immune signaling component FBXC-58 mediates dietary restriction effects on healthy aging in *Caenorhabditis elegans*. *Aging*, 15(1), 21.

Ciccarelli EJ, et al. (2023) BMP signaling to pharyngeal muscle in the *C. elegans* immune response to bacterial pathogen regulates anti-microbial peptide expression and pharyngeal pumping. *bioRxiv : the preprint server for biology*.

Matai L, et al. (2023) The conserved microRNA-229 family controls low-insulin signaling and dietary restriction induced longevity through interactions with SKN-1/NRF2. *Aging cell*, 22(4), e13785.

Higurashi S, et al. (2023) Bacterial diet affects the age-dependent decline of associative learning in *Caenorhabditis elegans*. *eLife*, 12.

Caron M, et al. (2022) Loss of SET1/COMPASS methyltransferase activity reduces lifespan and fertility in *Caenorhabditis elegans*. *Life science alliance*, 5(3).

Statzer C, et al. (2022) Longevity interventions temporally scale healthspan in *Caenorhabditis elegans*. *iScience*, 25(3), 103983.

Chen H, et al. (2022) Betulinic acid increases lifespan and stress resistance via insulin/IGF-1 signaling pathway in *Caenorhabditis elegans*. *Frontiers in nutrition*, 9, 960239.

Soo SK, et al. (2021) Activation of mitochondrial unfolded protein response protects against multiple exogenous stressors. *Life science alliance*, 4(12).