

Resource Summary Report

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CL2006

RRID:WB-STRAIN:WBStrain00005094

Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00005094

Organism Information

URL: <http://www.wormbase.org/db/get?name=WBStrain00005094>

Proper Citation: RRID:WB-STRAIN:WBStrain00005094

Description: Caenorhabditis elegans with name dvls2 [Punc-54::human A-beta 3-42; pRF4 (rol-6(su1006)] from WB.

Species: Caenorhabditis elegans

Synonyms: dvls2 [Punc-54::human A-beta 3-42; pRF4 (rol-6(su1006)]

Notes: dvls2 [pCL12(unc-54/human Abeta peptide 1-42 minigene) + rol-6(su1006)]. Temperature-sensitive. Maintain at 15C. Adult onset paralysis and egg-laying deficiency when raised at 20C. A few animals will be paralyzed even at permissive temperatures. Received new stock from CL 8/2005.|"WBStrain provided so WBPaper00059477 paper added based on AFP_Strain data."|"WBStrain provided so WBPaper00062076 paper added based on AFP_Strain data."|[2020-08-03T18:23:09.013Z WBPaper000324] Ressurect Strain: Paper: WBPaper00002289 Genotype: dvls2 [Punc-54::human A-beta 3-42; pRF4 (rol-6(su1006)]"

Affected Gene: WBGene00006789(unc-54)

Genomic Alteration: WBGene00006789(unc-54)

Catalog Number: WB-STRAIN:WBStrain00005094

Database: WormBase (WB)

Database Abbreviation: WB

Availability: available

Source References: [PMID:7568134](#), [PMID:9751195](#), [PMID:32966472](#), [PMID:34707479](#), [PMID:36226991](#), [PMID:36653384](#), [PMID:37103980](#), [PMID:37522064](#), [PMID:37113386](#),

[PMID:37549461](#), [PMID:38983916](#), [PMID:38991033](#), [PMID:39950089](#)

Alternate IDs: WB-STRAIN:CL2006, CGC_CL2006

Organism Name: CL2006

Record Creation Time: 20230227T013257+0000

Record Last Update: 20260815T162347+0000

Ratings and Alerts

No rating or validation information has been found for CL2006.

No alerts have been found for CL2006.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: WormBase (WB)

Usage and Citation Metrics

We found 15 mentions in open access literature.

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

Jarne-Ferrer J, et al. (2025) Investigating the Synergistic Neuroprotective Effects of Plant-Derived Antioxidants and the Psychedelic N,N-Dimethyltryptamine in Alzheimer's Disease Therapy. *Cells*, 14(12).

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.

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.

Yan L, et al. (2024) Metabolic Regulations of Smilax china L. against γ -Amyloid Toxicity in Caenorhabditis elegans. *Metabolites*, 14(1).

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.

Yu X, et al. (2024) P-hydroxybenzaldehyde protects Caenorhabditis elegans from oxidative stress and γ -amyloid toxicity. *Frontiers in aging neuroscience*, 16, 1414956.

Yanagi KS, et al. (2024) Mutations in nucleotide metabolism genes bypass proteasome defects in png-1/NGLY1-deficient Caenorhabditis elegans. *PLoS biology*, 22(7),

e3002720.

Hull BT, et al. (2024) 3-Hydroxyanthranilic Acid Delays Paralysis in *Caenorhabditis elegans* Models of Amyloid-Beta and Polyglutamine Proteotoxicity. *Biomolecules*, 14(5).

Ayuda-Durán B, et al. (2024) Insights into the Neuroprotective Potential of Epicatechin: Effects against A β -Induced Toxicity in *Caenorhabditis elegans*. *Antioxidants* (Basel, Switzerland), 13(1).

Bellver-Sanchis A, et al. (2024) G9a Inhibition Promotes Neuroprotection through GMFB Regulation in Alzheimer's Disease. *Aging and disease*, 15(1), 311.

Kleawyothis W, et al. (2023) *Holothuria scabra* extracts confer neuroprotective effect in *C. elegans* model of Alzheimer's disease by attenuating amyloid- β aggregation and toxicity. *Journal of traditional and complementary medicine*, 13(1), 93.

Pandey R, et al. (2022) Towards the development of phytoextract based healthy ageing cognitive booster formulation, explored through *Caenorhabditis elegans* model. *The Nucleus : an international journal of cytology and allied topics*, 65(3), 303.

Imanikia S, et al. (2019) Neuronal XBP-1 Activates Intestinal Lysosomes to Improve Proteostasis in *C. elegans*. *Current biology : CB*, 29(14), 2322.

Imanikia S, et al. (2019) XBP-1 Remodels Lipid Metabolism to Extend Longevity. *Cell reports*, 28(3), 581.

Moll L, et al. (2018) The insulin/IGF signaling cascade modulates SUMOylation to regulate aging and proteostasis in *Caenorhabditis elegans*. *eLife*, 7.