

Resource Summary Report

Generated by [NIF](#) on Aug 15, 2026

CF1553

RRID:WB-STRAIN:WBStrain00004861

Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00004861

Organism Information

URL: <http://www.wormbase.org/db/get?name=WBStrain00004861>

Proper Citation: RRID:WB-STRAIN:WBStrain00004861

Description: Caenorhabditis elegans with name muls84 [(pAD76) sod-3p::GFP + rol-6(su1006)]. from WB.

Species: Caenorhabditis elegans

Synonyms: muls84 [(pAD76) sod-3p::GFP + rol-6(su1006)].

Notes: Alt genotype from publication : [(pAD76) sod-3p::GFP]"Generated from papers flagged positive during the last month for data type afp_strain/other_strain."|"Made_by: Libina & Berman]"muls84 [(pAD76) sod-3p::GFP + rol-6(su1006)]. Green expression in head, tail and around vulva. Many animals roll weakly or not at all, but still express GFP. Grows at all temperatures."|"Reference WBPaper00054805 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 WBPaper00058626 added based on published strain data identified by Textpresso literature search."|"Supplementary_genotype (muls84[(pAD76)sod-3p::GFP + rol-6(su1006)])|"Supplementary_genotype muls84 [(pAD76) sod-3p::GFP + rol-6(su1006)]|"Supplementary_genotype sod-3::GFP muls84 [(pAD76) sod-3p::GFP + rol-6(su1006)]|"WBStrain mapped, WBPaper00059685 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00060896 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00061006 added based on AFP_Strain data."

Affected Gene: WBGene00004932(sod-3)

Genomic Alteration: WBGene00004932(sod-3)

Catalog Number: WB-STRAIN:WBStrain00004861

Database: WormBase (WB)

Database Abbreviation: WB

Availability: available

Source References: [PMID:29956725](#), [PMID:31432005](#), [PMID:31510078](#), [PMID:31331055](#), [PMID:32453327](#), [PMID:31771413](#), [PMID:32600387](#), [PMID:33319173](#), [PMID:33471780](#), [PMID:33159585](#), [PMID:34505574](#), [PMID:35045336](#), [PMID:36626986](#), [PMID:37416472](#), [PMID:37443152](#), [PMID:37531332](#), [PMID:37422249](#), [PMID:37910615](#), [PMID:38594249](#), [PMID:38632209](#), [PMID:38425274](#), [PMID:38799567](#), [PMID:38983916](#), [PMID:39273603](#)

Alternate IDs: WB-STRAIN:CF1553, CGC_CF1553

Organism Name: CF1553

Record Creation Time: 20230227T013255+0000

Record Last Update: 20260808T170803+0000

Ratings and Alerts

No rating or validation information has been found for CF1553.

No alerts have been found for CF1553.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: WormBase (WB)

Usage and Citation Metrics

We found 14 mentions in open access literature.

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

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.

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.

Roussos A, et al. (2025) Urolithin ? modulates inter-organellar communication via calcium-dependent mitophagy to promote healthy ageing. *Autophagy*, 21(12), 3097.

Ávila DS, et al. (2025) Nutritional Supplementation Benefits in *Caenorhabditis elegans* under Developmental Disruption and Stress Conditions. *ACS omega*, 10(29), 31313.

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

Cornell R, et al. (2024) Neuro-intestinal acetylcholine signalling regulates the mitochondrial stress response in *Caenorhabditis elegans*. *Nature communications*, 15(1), 6594.

Yong Y, et al. (2024) A novel ferroptosis inhibitor, Thonningianin A, improves Alzheimer's disease by activating GPX4. *Theranostics*, 14(16), 6161.

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).

Xu F, et al. (2023) Reprogramming of the transcriptome after heat stress mediates heat hormesis in *Caenorhabditis elegans*. *Nature communications*, 14(1), 4176.

Sturm Á, et al. (2023) Downregulation of transposable elements extends lifespan in *Caenorhabditis elegans*. *Nature communications*, 14(1), 5278.

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.

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.