

Resource Summary Report

Generated by [dkNET](#) on Sep 15, 2026

GMC101

RRID:WB-STRAIN:WBStrain00007866

Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00007866

Organism Information

URL: <http://www.wormbase.org/db/get?name=WBStrain00007866>

Proper Citation: RRID:WB-STRAIN:WBStrain00007866

Description: Caenorhabditis elegans with name dvIs100 [unc-54p::A142::unc-54 3-UTR + mtl-2p::GFP] from WB.

Species: Caenorhabditis elegans

Synonyms: dvIs100 [unc-54p::A142::unc-54 3-UTR + mtl-2p::GFP]

Notes: dvIs100 [unc-54p::A-beta-1-42::unc-54 3'-UTR + mtl-2p::GFP]. mtl-2p::GFP produces constitutive expression of GFP in intestinal cells. unc-54p::A-beta-1-42 expresses full-length human A-beta-1-42 peptide in bodywall muscle cells that aggregates in vivo. Shifting L4 or young adult animals from 20C to 25C causes paralysis. Reference: McColl G, et al. Mol Neurodegener. 2012 Nov 21;7:57.|"Supplementary_genotype (unc-54p::A-beta-1-42::unc-54 3-UTR + mtl-2p::GFP)"|"Supplementary_genotype dvIs100 [unc-54p::A-beta-1-42::unc-54 3'-UTR + mtl-2p::GFP]"|"Supplementary_genotype dvIs100 [unc-54p::Abeta-1-42::unc-54 3'-UTR; mtl-2p::GFP]"|"Supplementary_genotype dvIs100[unc-54p::A1-42::unc-54 3'-UTR + mtl-2p::GFP]"|"WBStrain mapped, WBPaper00060923 added based on AFP_Strain data."|"WBStrain provided so WBPaper00061178 paper added based on AFP_Strain data."|"2021-01-21T23:19:44.057Z WBPaper000324] Ressurect Strain: WBPaper00041754 Genotype: dvIs100 [(Punc-54::A-beta(1-42)::unc-54 3Prime UTR; Pmtl2::GFP)]|"2021-01-21T23:19:44.057Z WBPaper000324] Ressurect Strain: WBPaper00041754 Genotype: dvIs100 [(Punc-54::A-beta(142)::unc-54 3Prime UTR; Pmtl2::GFP)]"

Catalog Number: WB-STRAIN:WBStrain00007866

Database: WormBase (WB)

Database Abbreviation: WB

Availability: available

Source References: [PMID:23171715](#), [PMID:32550490](#), [PMID:33472069](#), [PMID:33718883](#), [PMID:37188705](#), [PMID:37196064](#), [PMID:37569459](#), [PMID:37473700](#), [PMID:37838776](#), [PMID:37910615](#), [PMID:37987447](#), [PMID:38241827](#), [PMID:39281281](#), [PMID:39560153](#)

Alternate IDs: WB-STRAIN:GMC101, CGC_GMC101

Organism Name: GMC101

Record Creation Time: 20230227T013318+0000

Record Last Update: 20260912T181112+0000

Ratings and Alerts

No rating or validation information has been found for GMC101.

No alerts have been found for GMC101.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: WormBase (WB)

Usage and Citation Metrics

We found 12 mentions in open access literature.

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

Dennis N, et al. (2025) A microbial community that alters mitochondrial morphology and age-related motor function in *C. elegans*. *iScience*, 28(12), 114128.

Hu IM, et al. (2025) Immuno-metabolic stress responses control longevity from mitochondrial translation inhibition in *C. elegans*. *Nature communications*, 16(1), 6083.

Gioran A, et al. (2024) Beneficial Effects of *Sideritis clandestina* Extracts and Sideridiol against Amyloid ? Toxicity. *Antioxidants (Basel, Switzerland)*, 13(3).

Anderton E, et al. (2024) Amyloid ? accelerates age-related proteome-wide protein insolubility. *GeroScience*, 46(5), 4585.

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.

Morón-Ortiz Á, et al. (2024) Phytoene and Phytoene-Rich Microalgae Extracts Extend Lifespan in *C. elegans* and Protect against Amyloid-? Toxicity in an Alzheimer's Disease Model. *Antioxidants (Basel, Switzerland)*, 13(8).

Anderton E, et al. (2023) Amyloid ? accelerates age-related proteome-wide protein insolubility. bioRxiv : the preprint server for biology.

Schiavi A, et al. (2023) Mitochondria hormesis delays aging and associated diseases in *Caenorhabditis elegans* impacting on key ferroptosis players. iScience, 26(4), 106448.

Panagiotidou E, et al. (2023) Neuron-specific proteasome activation exerts cell non-autonomous protection against amyloid-beta (A β) proteotoxicity in *Caenorhabditis elegans*. Redox biology, 65, 102817.

Wu MC, et al. (2023) Liensinine and neferine exert neuroprotective effects via the autophagy pathway in transgenic *Caenorhabditis elegans*. BMC complementary medicine and therapies, 23(1), 386.

Thomas C, et al. (2023) A naturally occurring polyacetylene isolated from carrots promotes health and delays signatures of aging. Nature communications, 14(1), 8142.

Costa-Machado LF, et al. (2023) Peripheral modulation of antidepressant targets MAO-B and GABAAR by harmol induces mitohormesis and delays aging in preclinical models. Nature communications, 14(1), 2779.