

Resource Summary Report

Generated by [NIF](#) on Aug 27, 2026

DA2123

RRID:WB-STRAIN:WBStrain00005592

Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00005592

Organism Information

URL: <http://www.wormbase.org/db/get?name=WBStrain00005592>

Proper Citation: RRID:WB-STRAIN:WBStrain00005592

Description: Caenorhabditis elegans with name adIs2122[lgg-1p::GFP::lgg-1 + rol-6(su1006)] from WB.

Species: Caenorhabditis elegans

Synonyms: adIs2122[lgg-1p::GFP::lgg-1 + rol-6(su1006)]

Notes: adIs2122 [lgg-1p::GFP::lgg-1 + rol-6(su1006)]. Rollers.|"Mutagen:Gamma Rays"|"Supplementary_genotype adIs2122(lgg-1p::gfp::lgg-1)"|"Supplementary_genotype lgg-1p::gfp::lgg-1"|"WBStrain mapped, WBPaper00059578 added based on AFP_Strain data."

Affected Gene: WBGene00004397(rol-6)

Genomic Alteration: WBGene00004397(rol-6)

Catalog Number: WB-STRAIN:WBStrain00005592

Database: WormBase (WB)

Database Abbreviation: WB

Availability: available

Source References: [PMID:32302543](#), [PMID:32410036](#), [PMID:32918875](#), [PMID:32978396](#), [PMID:34610328](#), [PMID:34634043](#), [PMID:36774344](#), [PMID:37118512](#), [PMID:37549461](#), [PMID:37620393](#), [PMID:37684253](#), [PMID:37957360](#), [PMID:38177330](#), [PMID:38261662](#), [PMID:38483903](#), [PMID:38510643](#), [PMID:38869949](#), [PMID:38963038](#), [PMID:38983916](#), [PMID:39186478](#), [PMID:39264947](#), [PMID:39070663](#)

Alternate IDs: WB-STRAIN:DA2123, CGC_DA2123

Organism Name: DA2123

Record Creation Time: 20230227T013301+0000

Record Last Update: 20260815T162356+0000

Ratings and Alerts

No rating or validation information has been found for DA2123.

No alerts have been found for DA2123.

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](#).

Trujillo-Del Río C, et al. (2026) SIR-2.3/SIRT4 loss enhances proteostasis and neuronal resilience via AMPK-induced autophagy in Huntington's disease models. Cell communication and signaling : CCS, 24(1), 109.

van der Rijt S, et al. (2025) Targeting phospholipase PLAG-15 promotes healthy aging in C. elegans via lysosomal-related genes. iScience, 28(7), 112880.

VanDerMolen KR, et al. (2025) Non-cell-autonomous regulation of mTORC2 by Hedgehog signaling maintains lipid homeostasis. Cell reports, 44(1), 115191.

Oorloff M, et al. (2024) Growth on stiffer substrates impacts animal health and longevity in C. elegans. PloS one, 19(9), e0302673.

Pu X, et al. (2024) Lysosomal dysfunction by inactivation of V-ATPase drives innate immune response in C. elegans. Cell reports, 43(5), 114138.

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.

Tang Y, et al. (2024) Activation of autophagy by Citri Reticulatae Semen extract ameliorates amyloid-beta-induced cell death and cognition deficits in Alzheimer's disease. Neural regeneration research, 19(11), 2467.

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.

Hu Q, et al. (2024) BLMP-1 is a critical temporal regulator of dietary-restriction-induced response in *Caenorhabditis elegans*. *Cell reports*, 43(3), 113959.

Hsieh HC, et al. (2024) PRMT-7/PRMT7 activates HLH-30/TFEB to guard plasma membrane integrity compromised by bacterial pore-forming toxins. *Autophagy*, 20(6), 1335.

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.

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).

Chamoli M, et al. (2023) A drug-like molecule engages nuclear hormone receptor DAF-12/FXR to regulate mitophagy and extend lifespan. *Nature aging*, 3(12), 1529.

Papandreou ME, et al. (2023) Nucleophagy delays aging and preserves germline immortality. *Nature aging*, 3(1), 34.

Vérièpe-Salerno J, et al. (2023) MALT-1 shortens lifespan by inhibiting autophagy in the intestine of *C. elegans*. *Autophagy reports*, 2(1), 2277584.