

Resource Summary Report

Generated by [dkNET](#) on Aug 19, 2026

VC3201

RRID:WB-STRAIN:WBStrain00037720

Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00037720

Organism Information

URL: <http://www.wormbase.org/db/get?name=WBStrain00037720>

Proper Citation: RRID:WB-STRAIN:WBStrain00037720

Description: Caenorhabditis elegans with name atfs-1(gk3094) V. from WB.

Species: Caenorhabditis elegans

Synonyms: atfs-1(gk3094) V.

Notes: Mutagen:UV/TMP|"Supplementary_genotype atfs-1(gk3094)"|"This strain is homozygous for a deletion (gk3094) in ZC376.7, detectable by PCR using the following primers. External left primer: TTTCAGTCGTTTCAGGACCC. External right primer: TCATCGAGTTGATCTCACGC. Internal left primer: ATAGAAACCGCCTCCTTTTCG. Internal right primer: TTCTCGGCTCGTTTCTTCTC. Internal WT amplicon: 2877 bp. Deletion size: 881 bp. Deletion left flank: ACTGGACCTCGACTCATGGCACACTAAGCC. Deletion right flank: ATCAAGTTATCTTCACGGAAAAATGTTCGA. Validation: gk3094 passed by CGH."|"This strain was provided by the C. elegans Reverse Genetics Core Facility at the University of British Columbia, which is part of the international C. elegans Gene Knockout Consortium, which should be acknowledged in any publications resulting from its use."

Affected Gene: WBGene00013878(atfs-1)

Genomic Alteration: WBGene00013878(atfs-1)

Catalog Number: WB-STRAIN:WBStrain00037720

Database: WormBase (WB)

Database Abbreviation: WB

Availability: available

Source References: [PMID:33542359](#), [PMID:37902464](#)

Alternate IDs: WB-STRAIN:VC3201, CGC_VC3201

Organism Name: VC3201

Record Creation Time: 20230227T013703+0000

Record Last Update: 20260815T163331+0000

Ratings and Alerts

No rating or validation information has been found for VC3201.

No alerts have been found for VC3201.

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](#) .

Adedoja A, et al. (2026) Longevity-promoting mitochondrial unfolded protein response activation requires elements of the PeBoW complex. *Genes & development*, 40(1-2), 110.

Shi L, et al. (2026) D-pinitol extends the lifespan of *Caenorhabditis elegans* through integrated antioxidant defense, proteostasis, and autophagy signaling. *npj aging*, 12(1).

Li TY, et al. (2025) A lysosomal surveillance response to stress extends healthspan. *Nature cell biology*, 27(7), 1083.

Li G, et al. (2025) A gut-brain-gut axis orchestrates host responses counteracting microbiome-induced iron insufficiency. *The EMBO journal*, 44(24), 7590.

Li J, et al. (2025) TMBIM-2 orchestrates systemic mitochondrial stress response via facilitating Ca²⁺ oscillations. *The Journal of cell biology*, 224(5).

Das P, et al. (2025) Iron-deplete diet enhances *Caenorhabditis elegans* lifespan via oxidative stress response pathways. *The EMBO journal*, 44(24), 7565.

Das P, et al. (2025) Iron-deplete diet enhances *Caenorhabditis elegans* lifespan via oxidative stress response pathways. *bioRxiv : the preprint server for biology*.

Gahlot S, et al. (2025) Bacterial metabolism of tryptophan causes toxicity in *Caenorhabditis elegans* that is alleviated by sugar supplementation. *bioRxiv : the preprint*

server for biology.

Kim J, et al. (2024) A microbiota-derived metabolite, 3-phenyllactic acid, prolongs healthspan by enhancing mitochondrial function and stress resilience via SKN-1/ATFS-1 in *C. elegans*. *Nature communications*, 15(1), 10773.

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

Taouktsi E, et al. (2023) Mitochondrial p38 Mitogen-Activated Protein Kinase: Insights into Its Regulation of and Role in LONP1-Deficient Nematodes. *International journal of molecular sciences*, 24(24).

Pu L, et al. (2023) Hypoxia induces food leaving in *C. elegans*. *microPublication biology*, 2023.