

Resource Summary Report

Generated by [NIF](#) on Aug 17, 2026

GR1307

RRID:WB-STRAIN:WBStrain00007895

Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00007895

Organism Information

URL: <http://www.wormbase.org/db/get?name=WBStrain00007895>

Proper Citation: RRID:WB-STRAIN:WBStrain00007895

Description: Caenorhabditis elegans with name daf-16(mgDf50) from WB.

Species: Caenorhabditis elegans

Synonyms: daf-16(mgDf50)

Notes: 20193bp deletion with TCTTCATTTTCAG insertion:Deletes 7 exons|"Deficiency completely eliminates daf-16 coding region. Makes partial dauers on pheromone."|"Mutagen:Gamma Rays|"Reference WBPaper00058832 added based on published strain data identified by Textpresso literature search."|"Supplementary_genotype daf-16(mgDf50)"|"WBStrain mapped, WBPaper00059578 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00060107 added based on AFP_Strain data."|"WBStrain provided so WBPaper00061925 paper added based on AFP_Strain data."

Affected Gene: WBGene00000912(daf-16)

Genomic Alteration: WBGene00000912(daf-16)

Catalog Number: WB-STRAIN:WBStrain00007895

Database: WormBase (WB)

Database Abbreviation: WB

Availability: available

Source References: [PMID:9353126](#), [PMID:31704915](#), [PMID:32302543](#), [PMID:32811254](#), [PMID:33851304](#), [PMID:34610328](#), [PMID:36653384](#), [PMID:37474586](#), [PMID:37507441](#), [PMID:37577954](#), [PMID:37782016](#), [PMID:38632209](#), [PMID:38790689](#), [PMID:39284915](#)

Alternate IDs: WB-STRAIN:GR1307, CGC_GR1307

Organism Name: GR1307

Record Creation Time: 20230227T013318+0000

Record Last Update: 20260815T162444+0000

Ratings and Alerts

No rating or validation information has been found for GR1307.

No alerts have been found for GR1307.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: WormBase (WB)

Usage and Citation Metrics

We found 8 mentions in open access literature.

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

Turner CD, et al. (2025) Activated SKN-1 alters the aging trajectories of long-lived *Caenorhabditis elegans* mutants. *Genetics*, 229(4).

Kern CC, et al. (2025) Machine learning predicts lifespan and suggests underlying causes of death in aging *C. elegans*. *Communications biology*, 8(1), 1630.

Rautela U, et al. (2025) DAF-16/FOXO maintains genome integrity following genotoxic stress. *bioRxiv : the preprint server for biology*.

Muhammad T, et al. (2024) Non-cell-autonomous regulation of germline proteostasis by insulin/IGF-1 signaling-induced dietary peptide uptake via PEPT-1. *The EMBO journal*, 43(21), 4892.

Kumar A, et al. (2024) Heat-killed probiotic *Levilactobacillus brevis* MKAK9 and its exopolysaccharide promote longevity by modulating aging hallmarks and enhancing immune responses in *Caenorhabditis elegans*. *Immunity & ageing : I & A*, 21(1), 52.

Yuan W, et al. (2023) Modulating p38 MAPK signaling by proteostasis mechanisms supports tissue integrity during growth and aging. *Nature communications*, 14(1), 4543.

Kern CC, et al. (2023) *C. elegans* ageing is accelerated by a self-destructive reproductive programme. *Nature communications*, 14(1), 4381.

Balaguer F, et al. (2023) *Bifidobacterium animalis* subsp. *lactis* BPL1??? and Its Lipoteichoic Acid Modulate Longevity and Improve Age/Stress-Related Behaviors in

Caenorhabditis elegans. Antioxidants (Basel, Switzerland), 12(12).