

Resource Summary Report

Generated by PRECISE-TBI on Aug 16, 2026

VP303

RRID:WB-STRAIN:WBStrain00040175

Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00040175

Organism Information

URL: <http://www.wormbase.org/db/get?name=WBStrain00040175>

Proper Citation: RRID:WB-STRAIN:WBStrain00040175

Description: Caenorhabditis elegans with name rde-1(ne219); kbIs7[nhx-2p::rde-1 + rol-6(su1006)] from WB.

Species: Caenorhabditis elegans

Synonyms: rde-1(ne219); kbIs7[nhx-2p::rde-1 + rol-6(su1006)]

Notes: Generated from papers flagged positive during the last month for data type afp_strain/other_strain.|"kbIs7 [nhx-2p::rde-1 + rol-6(su1006)]. Rollers. RNAi effective only in intestine. Maintain under normal conditions. Reference: Espelt MV, et al., J Gen Physiol. 2005 Oct;126(4):379-92."|"Made_by: MV Espelt"|"WBStrain mapped, WBPaper00061409 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00061527 added based on AFP_Strain data."|"WBStrain provided so WBPaper00060797 paper added based on AFP_Strain data."|"WBStrain provided so WBPaper00061750 paper added based on AFP_Strain data."|"WBStrain provided so WBPaper00061805 paper added based on AFP_Strain data."|"WBStrain provided so WBPaper00061852 paper added based on AFP_Strain data."|"WBStrain provided so WBPaper00061894 paper added based on AFP_Strain data."

Affected Gene: WBGene00004323(rde-1)

Genomic Alteration: WBGene00004323(rde-1)

Catalog Number: WB-STRAIN:WBStrain00040175

Database: WormBase (WB)

Database Abbreviation: WB

Availability: available

Source References: [PMID:33319173](#), [PMID:33594200](#), [PMID:34321666](#), [PMID:34407398](#), [PMID:34449775](#), [PMID:34496255](#), [PMID:36653384](#), [PMID:37118550](#), [PMID:37118502](#), [PMID:37722055](#), [PMID:38378098](#), [PMID:38740431](#), [PMID:39232459](#)

Alternate IDs: WB-STRAIN:VP303, CGC_VP303

Organism Name: VP303

Record Creation Time: 20230227T013722+0000

Record Last Update: 20260815T163414+0000

Ratings and Alerts

No rating or validation information has been found for VP303.

No alerts have been found for VP303.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: WormBase (WB)

Usage and Citation Metrics

We found 13 mentions in open access literature.

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

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

Rahman SS, et al. (2025) Methionine cycle in C. elegans serotonergic neurons regulates diet-dependent behaviour and longevity through neuron-gut signaling. Nature communications, 16(1), 5118.

Zhang Y, et al. (2025) Aging impairs the antiviral defense in Caenorhabditis elegans due to loss of DRH-1/RIG-I deSUMOylation by ULP-4/SEN7. EMBO reports, 26(22), 5459.

Bresilla D, et al. (2025) Enhancing Late-Life Survival and Mobility via Mitohormesis by Reducing Mitochondrial Calcium Levels. Aging cell, 24(11), e70247.

Shi J, et al. (2024) Identification of BiP as a temperature sensor mediating temperature-induced germline sex reversal in C. elegans. The EMBO journal, 43(18), 4020.

Rautela U, et al. (2024) A non-canonical role of somatic Cyclin D/CYD-1 in oogenesis and in maintenance of reproductive fidelity, dependent on the FOXO/DAF-16 activation state. PLoS genetics, 20(11), e1011453.

Snow S, et al. (2024) Neuronal CBP-1 is Required for Enhanced Body Muscle Proteostasis in Response to Reduced Translation Downstream of mTOR. *Frontiers in bioscience (Landmark edition)*, 29(7), 264.

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.

Zhang X, et al. (2023) A gonadal gap junction INX-14/Notch GLP-1 signaling axis suppresses gut defense through an intestinal lysosome pathway. *Frontiers in immunology*, 14, 1249436.

Liu J, et al. (2023) GABAergic signaling between enteric neurons and intestinal smooth muscle promotes innate immunity and gut defense in *Caenorhabditis elegans*. *Immunity*, 56(7), 1515.

Dang H, et al. (2023) On the benefits of the tryptophan metabolite 3-hydroxyanthranilic acid in *Caenorhabditis elegans* and mouse aging. *Nature communications*, 14(1), 8338.

Johnson LC, et al. (2023) NHR-23 activity is necessary for *C. elegans* developmental progression and apical extracellular matrix structure and function. *Development (Cambridge, England)*, 150(10).

Wu C, et al. (2021) Tribbles pseudokinase NIP-3 regulates intestinal immunity in *Caenorhabditis elegans* by controlling SKN-1/Nrf activity. *Cell reports*, 36(7), 109529.