

Resource Summary Report

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RB1716

RRID:WB-STRAIN:WBStrain00032408

Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00032408

Organism Information

URL: <http://www.wormbase.org/db/get?name=WBStrain00032408>

Proper Citation: RRID:WB-STRAIN:WBStrain00032408

Description: Caenorhabditis elegans with name nhr-49(ok2165) I. from WB.

Species: Caenorhabditis elegans

Synonyms: nhr-49(ok2165) I.

Notes: K10C3.6. Homozygous. Outer Left Sequence: CTCAATTGTGTGCACTTGCC. Outer Right Sequence: AAGGAAGAAGAGTTGGGGGA. Inner Left Sequence: CAACATGCGTTCCACTCCTA. Inner Right Sequence: AGGATGAATTGCCAATGGAG. Inner Primer PCR Length: 3211 bp. Deletion Size: 1437 bp. Deletion left flank: TGAAAACTTGCGTTGCTATCTGTTGTTTGG. Deletion right flank: ACAACTATTTTCTGTCATTTCAGGTCCATGT.|"Made_by: OMRF Knockout Group"| "This strain was provided by the C. elegans Gene Knockout Project at the Oklahoma Medical Research Foundation, which was part of the International C. elegans Gene Knockout Consortium, which should be acknowledged in any publications resulting from its use."

Affected Gene: WBGene00003639(nhr-49)

Genomic Alteration: WBGene00003639(nhr-49)

Catalog Number: WB-STRAIN:WBStrain00032408

Database: WormBase (WB)

Database Abbreviation: WB

Availability: available

Alternate IDs: WB-STRAIN:RB1716, CGC_RB1716

Organism Name: RB1716

Record Creation Time: 20230227T013623+0000

Record Last Update: 20260815T163155+0000

Ratings and Alerts

No rating or validation information has been found for RB1716.

No alerts have been found for RB1716.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: WormBase (WB)

Usage and Citation Metrics

We found 7 mentions in open access literature.

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

Zhang X, et al. (2025) Phlorizin Ameliorates Amyloid-? Toxicity and Enhances Fatty Acid ?-Oxidation in *Caenorhabditis elegans* via NHR-49-Dependent Pathway. *International journal of molecular sciences*, 26(19).

Li S, et al. (2025) Preconception exposure to perfluorooctanesulfonic acid (PFOS) and perfluorobutanesulfonic acid (PFBS) impaired reproduction via insulin/insulin-like growth factor signaling pathway without effects on the second generation in *Caenorhabditis elegans*. *Toxicology reports*, 14, 101966.

Hodgkin J, et al. (2025) Mutations of *nhr-49* affect *C. elegans* susceptibility to *Yersinia* biofilms. *microPublication biology*, 2025.

Pees B, et al. (2024) The *Caenorhabditis elegans* proteome response to two protective *Pseudomonas* symbionts. *mBio*, 15(4), e0346323.

Zhao L, et al. (2022) Insight of Silkworm Pupa Oil Regulating Oxidative Stress and Lipid Metabolism in *Caenorhabditis elegans*. *Foods (Basel, Switzerland)*, 11(24).

Ow MC, et al. (2021) Somatic aging pathways regulate reproductive plasticity in *Caenorhabditis elegans*. *eLife*, 10.

Hu Q, et al. (2018) The *Caenorhabditis elegans* Oxidative Stress Response Requires the NHR-49 Transcription Factor. *G3 (Bethesda, Md.)*, 8(12), 3857.