

Resource Summary Report

Generated by [NIF](#) on Sep 12, 2026

CX4

RRID:WB-STRAIN:WBStrain00005213

Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00005213

Organism Information

URL: <http://www.wormbase.org/db/get?name=WBStrain00005213>

Proper Citation: RRID:WB-STRAIN:WBStrain00005213

Description: Caenorhabditis elegans with name odr-7(ky4) X. from WB.

Species: Caenorhabditis elegans

Synonyms: odr-7(ky4) X.

Notes: odr-7 mutants fail to respond to odorants sensed by the AWA neurons.|"Supplementary_genotype odr-7(ky04)"

Affected Gene: WBGene00003854(odr-7)

Genomic Alteration: WBGene00003854(odr-7)

Catalog Number: WB-STRAIN:WBStrain00005213

Database: WormBase (WB)

Database Abbreviation: WB

Availability: available

Source References: [PMID:8001144](#), [PMID:37258276](#), [PMID:38421867](#), [PMID:38448519](#)

Alternate IDs: WB-STRAIN:CX4, CGC_CX4

Organism Name: CX4

Record Creation Time: 20230227T013258+0000

Record Last Update: 20260912T181038+0000

Ratings and Alerts

No rating or validation information has been found for CX4.

No alerts have been found for CX4.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: WormBase (WB)

Usage and Citation Metrics

We found 10 mentions in open access literature.

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

Yokosawa R, et al. (2025) A Nuclear Hormone Receptor nhr-76 Induces Age-Dependent Chemotaxis Decline in *C. elegans*. Aging cell, 24(12), e70277.

Xue W, et al. (2025) Calcium levels in ASER neurons determine behavioral valence by engaging distinct neuronal circuits in *C. elegans*. Nature communications, 16(1), 1814.

Brown VE, et al. (2025) The AWC OFF neuron is important for attraction to 1-butanol in *Caenorhabditis elegans*. microPublication biology, 2025.

Mallick S, et al. (2025) *Caenorhabditis elegans* AWC neuron-mediated chemosensation negatively modulates dormancy during *Salmonella fepB* mutant infection. Microbiology spectrum, 13(11), e0042025.

Suryawinata N, et al. (2024) Dietary *E. coli* promotes age-dependent chemotaxis decline in *C. elegans*. Scientific reports, 14(1), 5529.

Cheng W, et al. (2023) Multiple Receptors Contribute to the Attractive Response of *Caenorhabditis elegans* to Pathogenic Bacteria. Microbiology spectrum, 11(1), e0231922.

Wu T, et al. (2023) Pathogenic bacteria modulate pheromone response to promote mating. Nature, 613(7943), 324.

Venkatesh SR, et al. (2023) Amphid sensory neurons of *Caenorhabditis elegans* orchestrate its survival from infection with broad classes of pathogens. Life science alliance, 6(8).

McLachlan IG, et al. (2022) Diverse states and stimuli tune olfactory receptor expression levels to modulate food-seeking behavior. eLife, 11.

Wang J, et al. (2016) The Anaphase-Promoting Complex (APC) ubiquitin ligase affects chemosensory behavior in *C. elegans*. PeerJ, 4, e2013.