

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 23, 2026

CX4544

RRID:WB-STRAIN:WBStrain00005264

Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00005264

Organism Information

URL: <http://www.wormbase.org/db/get?name=WBStrain00005264>

Proper Citation: RRID:WB-STRAIN:WBStrain00005264

Description: Caenorhabditis elegans with name ocr-2(ak47) IV. from WB.

Species: Caenorhabditis elegans

Synonyms: ocr-2(ak47) IV.

Notes: Chemosensory, mechanosensory, and osmosensory defects. Null allele. Do not distribute this strain; other labs should request it from the CGC. This strain cannot be distributed to commercial organizations. This strain cannot be used for any commercial purpose or for work on human subjects.["WBStrain provided so WBPaper00061436 paper added based on AFP_Strain data."]

Affected Gene: WBGene00003839(ocr-2)

Genomic Alteration: WBGene00003839(ocr-2)

Catalog Number: WB-STRAIN:WBStrain00005264

Database: WormBase (WB)

Database Abbreviation: WB

Availability: available

Source References: [PMID:38302462](#), [PMID:38396085](#)

Alternate IDs: WB-STRAIN:CX4544, CGC_CX4544

Organism Name: CX4544

Record Creation Time: 20230227T013258+0000

Record Last Update: 20260815T162350+0000

Ratings and Alerts

No rating or validation information has been found for CX4544.

No alerts have been found for CX4544.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: WormBase (WB)

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

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.

Medrano E, et al. (2025) Osmolarity regulates *Caenorhabditis elegans* egg-laying behavior via chemosensory and biophysical mechanisms. *The Journal of experimental biology*, 228(21).

Lobo T, et al. (2025) Sensory stimuli and cilium trafficking defects trigger the release of ciliary extracellular vesicles from multiple ciliary locations. *bioRxiv : the preprint server for biology*.

Chen L, et al. (2023) Investigation into the communication between unheated and heat-stressed *Caenorhabditis elegans* via volatile stress signals. *Scientific reports*, 13(1), 3225.

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

Schwartz EKC, et al. (2021) Serotonin and Dopamine Mimic Glucose-Induced Reinforcement in *C. elegans*: Potential Role of NSM Neurons and the Serotonin Subtype 4 Receptor. *Frontiers in physiology*, 12, 783359.