Resource Summary Report

Generated by NIF on Jul 29, 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: 20260725T171707+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 4 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF .

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.

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.