Resource Summary Report

Generated by dkNET on Sep 9, 2026

KWN190

RRID:WB-STRAIN:WBStrain00024074
Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00024074

Organism Information

URL: http://www.wormbase.org/db/get?name=WBStrain00024074

Proper Citation: RRID:WB-STRAIN:WBStrain00024074

Description: Caenorhabditis elegans with name pha-1(e2123) III; him-5(e1490) V; rnyEx109. from WB.

Species: Caenorhabditis elegans

Synonyms: pha-1(e2123) III; him-5(e1490) V; rnyEx109.

Notes: rnyEx109 [nhx-2p::D3cpv + pha-1(+)]. Maintain at 20-25C to select for array. KWN190 strain expresses the FRET-based calcium indicator protein D3cpv throughout the cytoplasm of intestinal cells. Dual emission ratio imaging (ex. 435, em. 480/535-nm) can be used to measure intestinal calcium and, although the FRET pair is CFP/YFP, intestinal D3cpv fluorescence is observable under standard GFP filter sets. The D3cpv biosensor has the advantages of being relatively pH-insensitive and not interfering with endogenous calmodulin signaling. References: Am J Physiol Cell Physiol. 301:C1389-1403. Am J Physiol Cell Physiol. 297:C1071-81. FASEB J. 27:760-768. PLoS Biol. 11: e1001613.|"WBStrain provided so WBPaper00061870 paper added based on AFP_Strain data."

Affected Gene: WBGene00001864(him-5)|WBGene00004010(pha-1)

Genomic Alteration: WBGene00001864(him-5), WBGene00004010(pha-1)

Catalog Number: WB-STRAIN:WBStrain00024074

Database: WormBase (WB)

Database Abbreviation: WB

Availability: available

Source References: PMID:34467850

Alternate IDs: WB-STRAIN:KWN190, CGC_KWN190

Organism Name: KWN190

Record Creation Time: 20230227T013520+0000

Record Last Update: 20260905T115054+0000

Ratings and Alerts

No rating or validation information has been found for KWN190.

No alerts have been found for KWN190.

Data and Source Information

Source: Integrated Animals

Source Database: WormBase (WB)

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Dai W, et al. (2025) Different concentrations of 2-Undecanone triggers repellent and nematicidal responses in Caenorhabditis elegans. Scientific reports, 15(1), 14186.

Angeli S, et al. (2021) The mitochondrial permeability transition pore activates the mitochondrial unfolded protein response and promotes aging. eLife, 10.