

Resource Summary Report

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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: 20260815T162927+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 [NIF](#) .

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.