

Resource Summary Report

Generated by [NIF](#) on Aug 29, 2026

RB790

RRID:WB-STRAIN:WBStrain00031503

Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00031503

Organism Information

URL: <http://www.wormbase.org/db/get?name=WBStrain00031503>

Proper Citation: RRID:WB-STRAIN:WBStrain00031503

Description: Caenorhabditis elegans with name atf-4(ok576) X. from WB.

Species: Caenorhabditis elegans

Synonyms: atf-4(ok576) X.

Notes: Made_by: OMRF Knockout Group|Mutagen:UV/TMP|T04C10.4. Homozygous. Outer Left Sequence: TGTCGCCAGTGTGGAATAA. Outer Right Sequence: ACCGTGAAGATGGAGGTGAC. Inner Left Sequence: CGTGCGCTTCAAGTTCACTA. Inner Right Sequence: GCCAGAAGGCTACTTGTTG. Inner primer WT PCR product: 2701."|This strain was provided by the C. elegans Gene Knockout Project at the Oklahoma Medical Research Foundation, which was part of the International C. elegans Gene Knockout Consortium, which should be acknowledged in any publications resulting from its use."

Affected Gene: WBGene00000221(atf-4)

Genomic Alteration: WBGene00000221(atf-4)

Catalog Number: WB-STRAIN:WBStrain00031503

Database: WormBase (WB)

Database Abbreviation: WB

Availability: available

Source References: [PMID:38799567](#), [PMID:39436952](#)

Alternate IDs: WB-STRAIN:RB790, CGC_RB790

Organism Name: RB790

Record Creation Time: 20230227T013616+0000

Record Last Update: 20260829T162126+0000

Ratings and Alerts

No rating or validation information has been found for RB790.

No alerts have been found for RB790.

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](#) .

Clay KJ, et al. (2026) Atypical tetracyclines promote longevity and ferroptotic neuroprotection via translation attenuation. bioRxiv : the preprint server for biology.

Wibisono S, et al. (2025) The GCN-2/eIF-2 γ /ATF-4 signaling pathway is involved in C. elegans defense against Salmonella enterica infection. Virulence, 16(1), 2580132.

Li W, et al. (2024) Low-dose naltrexone extends healthspan and lifespan in C. elegans via SKN-1 activation. iScience, 27(6), 109949.

Robbins CE, et al. (2022) Cytosolic and mitochondrial tRNA synthetase inhibitors increase lifespan in a GCN4/atf-4-dependent manner. iScience, 25(11), 105410.