

Resource Summary Report

Generated by [dkNET](#) on Aug 24, 2026

RB1653

RRID:WB-STRAIN:WBStrain00032346

Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00032346

Organism Information

URL: <http://www.wormbase.org/db/get?name=WBStrain00032346>

Proper Citation: RRID:WB-STRAIN:WBStrain00032346

Description: Caenorhabditis elegans with name ctl-3(ok2042) II. from WB.

Species: Caenorhabditis elegans

Synonyms: ctl-3(ok2042) II.

Notes: Made_by: OMRF Knockout Group|"Mutagen:UV/TMP"|"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."|"Y54G11A.13. Homozygous.

Outer Left Sequence: CGGCGATTCTTATACTCCCA. Outer Right Sequence:

CTTCCCCACATGGTCAATCT. Inner Left Sequence: GGCCAATTTTCTGCCTGATA.

Inner Right Sequence: CAACTGCTTTCGCATGGTTA. Inner Primer PCR Length: 2912

bp. Deletion Size: 1420 bp. Deletion left flank:

CAGCGGATCCCGATTCTCCAGCGACCGTTGAAAAACGAACGAGAAGTGGTGTCTGTTTT
CCGACCTTGTTGAACATATCGGCCTTACAGTACTTGGTGATGTCATGGGTGACCTCGAA
GTATCCATGGGCTCCGGCTCCCTTGGCATGAACGACACGCTCGGGGATACGTTACGAT
CGAAATGAGCCATCTCATCCATATAAACTACATCTTGCATGAGCATTGGGCCACGCCGC
CCGGCGGTGAGCACGGCGGTCTTCGAGTAGATCGGAGCTCCATTTGAAGTTGTGATCAC
TTGGGGTTTCTGAAACAAGTTACTGTAAATAGTAGTTGTTGTTGTAGAAAATGCGTCTG
TGCCTTTAACTCTAACTCACTGGATACGTCTCCTTGTAGGTTTTTCAGTTGATTATCC
GATGGATCGTTTGGCATTCTTGGTTCTGAAATTTTAGTTAGGAAATTTAGAATTAAATAA
AACTCTGAACAAAAAATGACCACGACGAGGTGTAATACGGAATATGGGTTGGGAGAGA
CAAGAGAAACAGAGAAAAAAGAAAGAAGATTGTAGCGTTATCACTGATAAGGAACATGT
TGTTGGACACCAGACTACGGCATAGTCTCGCTTATTTTGGACAGGCAAAAAAGTAGGGG
GAAAGACAAAAATTAGGTAGGTATTGATTATGGGTCAGGGTATACGGGGAATGGATTGA
TCTACAAATCTACAGATCTACAAAAAATGCGGGAGAATAGACGCAGAGTTTTCACTGA
TTTCGCATGGTTGAGAACGTGCTGACGTACATTTTTCTGGACGAAAAATTCCCGCATT

TTTCATAGATCAAAGCGTAATGGGACAACCTGGCACTACGTGGAAAAGTGGTACCTGTA
CGCAATTTGTCTACCGTATACCTGAACTTTTGGGCTTGTCTGTTTTATCAAAAACGAGT
GGCCCAATATTTTTGTGATGTATATAAAAAATGTCCGAAAAAAATAAACTCTAAATTTT
TTGGTCCAAAGCTTTTTTCTTATCTTGCGCCTAAACCTGGTTAAACTCAAATTATCAGT
AGAGCGCATTTCATGGATGTACCACTAGCCGGGCGCGGGGTGTTGCTGTATGGTGCA
TATGTGCAAACACCATAACTTACGCGCAAATTTGACAACTTACTGTCAAAAAGGCGCG
CTATAAATAAGCAATATATTGACTATTTTGAATTTTAAAAACAAAAAATAATCCAAAGT
TGTCCACGAGCAGTACACAGCGGCTTGTAGAAGTATTGCGCGTCAAATATGGTGCATCG
AAAAATGATCATATTTTACGCTCAATTTTCACTTCTACCGAACTGATTATTGATGTTTT
CCGGCGATTCTTATACTCCCAGTCGCGGTGCTCTGTACAAGAGATGATGACGTCACATG
TTTATGATAAGCGATAAGGGAAACCCAAAAATAAAATAAAGTGTTGTGTCGGTCTCGCA
GCGATGAAATTGTTGACCAAATTTTGAATGTTTTACCAAAAACTACGGTACCCGGTC
TCGAAACGACAAATACTGTAACTTTAACTTTTCGTTGACGCGGATTTTTTATCGATTTT
TTTTTTAATTTTGTGTTTTTATTGTTATATTTGAGTTGTTTTCATCGAAAAAATATAAA
AAATCGATAAAAACTCCACAGCGACAAAAGTTTGCAACTACAGTACTCTTTAAAGGCGC
ACATATTTTCGCAATAGATAAAAACTGTCGTTTCGAGACCCGATACCGTAATTTTGGC
GCGAAAATTGCTTTTACAGTCTAACTTAAGTTTTTCATCTTTAAAAATTGACTGAAACAA
AAAATTTTCCAGATTTTCTTCAAACAGGAAAATGATGACGTCACGTGGCCAATTTTCTG
CCTGATAAAACGCTATTTAATTTCCGGCTTTTTTGTATTTATGTGCACATAAAATTTCTT
ATCATCAAAAACCAGAAGAAATACAAAAAAAGAGTTTATAAATAACGAGATTCTATAT
ACAAAAGTTTGAATATCAAACAATTTAATGCTTCTTCTGGCAGAGCTGATGGCGAAGAG
CATTTCCGAAATCCGGATGAACTTTCGTGAACCTTTTGACCATTCATTTTGAATTTCC
TCCAAACAGCCACCCAAATCACTAGCCAAATTCCCAACGAGCCGATCTCTCTCCTCCTC
CTTGAGCACTTTCTCCAGAACTGACGTGGCTGCTCGTAGTTGTGATCGTCTCCAGT.

Deletion right flank:

ATGGATTGAACTCCCATTCTCAGCTTGTTTGAATGTCATCACTTGAATGAACATCTTC
CATTCCGGGAAATTTCTTGAATCAATGGCATTGAACAGGTCGCGGATCGCATAGTCTGG
ATCCGAAGAGGCGAGCTTTCCAGCGTCAGTTGGATCGAGATTCTTGGAACCTTGAGCAG
GCTGAAAAATAGAAAATGAAAATTTAATTCTAGTCCCCGTCTCTCTTAGGCTTACCTTG
AAATGGAATTTACAATAAATCGGATTTCCCTCCTTGTTGACCATCTTGAAAGTATGCGC
TCCGTATCCATTCTATAAACGGAATCCATCAGGAATTCACGATCCGAGTAGAGGAACA
TCACCTGATGAATGGATTCAGGGCGATTCATCCAGAAATCGAAGAGCGCATTCCGGATCC
CTCATGTGAGTCTGTGGATTGCGCTTCAGGGCATGAATGAAATTCGGAAAGTGGATTGC
GTCACGAATGAAGAAGATCGGAGTGTTATTTCCAACCAGATCCCAGTTACCCTCCTCGG
TATAGAATTTGAGAGAGAATCCACGTGGATCGCGGACAGTATCAGCGGATCCCGATTCT
CCAGCGACCGTTGAAAAACGAACGAGAAGTGGTGTCTGTTTTCCGACCTTGTTGAACAT
ATCGGCCTTACAGTACTTGGTGTATGTCATGGGTGACCTCGAAGTATCCATGAGCACCAC
CACCTTTGGCAT.

Insertion Sequence: GGATTG."|"
Y54G11A.13. Homozygous. Outer Left Sequence: CGGCGATTCTTATACTCCCA. Outer Right Sequence:

CTTCCCCACATGGTCAATCT. Inner Left Sequence: GGCCAATTTTCTGCCTGATA.

Inner Right Sequence: CAACTGCTTTCGCATGGTTA. Inner Primer PCR Length: 2912

bp. Deletion Size: 1420 bp. Deletion left flank:

CAGCGGATCCCGATTCTCCAGCGACCGTTGAAAAACGAACGAGAAGTGGTGTCTGTTTTCCGAA

Deletion right flank:

ATGGATTGAACTCCCATTCTCAGCTTGTTTGAATGTCATCACTTGAATGAACATCTTCCATTCC

Insertion Sequence: GGATTG."|"
Y54G11A.13. Homozygous. Outer Left Sequence:

CGGCGATTCTTATACTCCCA. Outer Right Sequence: CTTCCCCACATGGTCAATCT.

Inner Left Sequence: GGCCAATTTTCTGCCTGATA. Inner Right Sequence:

CAACTGCTTTCGCATGGTTA. Inner Primer PCR Length: 2912 bp. Deletion Size: 1420

bp. Deletion left flank:

CATTTCCGAAATCCGGATGAACTTTTCGTGAACTCTTTGACCATTCCATTTTGAATTTCC
TCCAAACAGCCACCCAAATCACTAGCCAAATTCCCAACGAGCCGATCTCTCTCCTCCTC
CTTGAGCACTTTCTCCCAGAACTGACGTGGCTGCTCGTAGTTGTGATCGTCTCCAGT.
Deletion right flank:
ATGGATTGAACTCCCATTCTCAGCTTGTTCTGAATGTCATCACTTGAATGAACATCTTC
CATTCCGGGAAATTTCTTGACTCAATGGCATTGAACAGGTCGCGGATCGCATAGTCTGG
ATCCGAAGAGGCGAGCTTTCCAGCGTCAGTTGGATCGAGATTCTTGGAACCTTGAGCAG
GCTGAAAAATAGAAAATGAAAATTTAATTCTAGTCCCCGTCTCTCTTAGGCTTACCTTG
. Insertion Sequence: GGATTG."

Affected Gene: WBGene00013220(ctl-3)
Genomic Alteration: WBGene00013220(ctl-3)
Catalog Number: WB-STRAIN:WBStrain00032346
Database: WormBase (WB)
Database Abbreviation: WB
Availability: available
Alternate IDs: WB-STRAIN:RB1653, CGC_RB1653
Organism Name: RB1653
Record Creation Time: 20230227T013623+0000
Record Last Update: 20260815T163154+0000

Ratings and Alerts

No rating or validation information has been found for RB1653.
No alerts have been found for RB1653.

Data and Source Information

Source: [Integrated Animals](#)
Source Database: WormBase (WB)

Usage and Citation Metrics

We found 3 mentions in open access literature.
Listed below are recent publications. The full list is available at [dkNET](#) .
Liu Y, et al. (2024) Neuronal PRDX-2-Mediated ROS Signaling Regulates Food Digestion via peripheral UPRmt Activation. Nature communications, 15(1), 10582.

Branicky R, et al. (2022) Stimulation of RAS-dependent ROS signaling extends longevity by modulating a developmental program of global gene expression. *Science advances*, 8(48), eadc9851.

Chen H, et al. (2022) Betulinic acid increases lifespan and stress resistance via insulin/IGF-1 signaling pathway in *Caenorhabditis elegans*. *Frontiers in nutrition*, 9, 960239.