

Resource Summary Report

Generated by [NIF](#) on Sep 6, 2026

MT15434

RRID:WB-STRAIN:WBStrain00027519

Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00027519

Organism Information

URL: <http://www.wormbase.org/db/get?name=WBStrain00027519>

Proper Citation: RRID:WB-STRAIN:WBStrain00027519

Description: Caenorhabditis elegans with name tph-1(mg280)/II from WB.

Species: Caenorhabditis elegans

Synonyms: tph-1(mg280)/II

Notes: Backcrossed tph-1(mg280) allele. cam-1 mutation was removed by crossing left and right of tph-1(mg280) using bli-2 and unc-4. Strain does not have withered tail defect and moves well."Supplementary_genotype tph-1(mg280)"|"Supplementary_genotype tph-1(mg280) II"|"WBStrain mapped, WBPaper00059878 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00061409 added based on AFP_Strain data."|"WBStrain mapped, WBPaper00061527 added based on AFP_Strain data."|"WBStrain provided so WBPaper00061890 paper added based on AFP_Strain data."

Affected Gene: WBGene00006600(tph-1)

Genomic Alteration: WBGene00006600(tph-1)

Catalog Number: WB-STRAIN:WBStrain00027519

Database: WormBase (WB)

Database Abbreviation: WB

Availability: available

Source References: [PMID:32576621](#), [PMID:36652499](#), [PMID:37055179](#), [PMID:37431892](#), [PMID:37728328](#), [PMID:38520690](#), [PMID:38573858](#)

Alternate IDs: WB-STRAIN:MT15434, CGC_MT15434

Organism Name: MT15434

Record Creation Time: 20230227T013546+0000

Record Last Update: 20260905T115144+0000

Ratings and Alerts

No rating or validation information has been found for MT15434.

No alerts have been found for MT15434.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: WormBase (WB)

Usage and Citation Metrics

We found 16 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#).

Lacour A, et al. (2026) Cytoplasmic TDP-43 leads to early behavioral impairments without neurodegeneration in a serotonergic neuron-specific *C. elegans* model. *Scientific reports*, 16(1), 6068.

Estrem C, et al. (2025) Identification of bacterial signals that modulate enteric sensory neurons to influence behavior in *C. elegans*. *bioRxiv : the preprint server for biology*.

Rahman SS, et al. (2025) Methionine cycle in *C. elegans* serotonergic neurons regulates diet-dependent behaviour and longevity through neuron-gut signaling. *Nature communications*, 16(1), 5118.

Gahlot S, et al. (2025) Bacterial metabolism of tryptophan causes toxicity in *Caenorhabditis elegans* that is alleviated by sugar supplementation. *bioRxiv : the preprint server for biology*.

Shahi N, et al. (2025) Neuromodulation of Swarming Behavior in *C. elegans*: Insights into the Conserved role of Calsyntenins. *bioRxiv : the preprint server for biology*.

Ganem NS, et al. (2025) Behavioral age-detection in individuals reconstructs minute-scale developmental transcriptomics. *bioRxiv : the preprint server for biology*.

Nair T, et al. (2024) Serotonin deficiency from constitutive SKN-1 activation drives pathogen apathy. *Nature communications*, 15(1), 8129.

Ali Nasser R, et al. (2023) Early-life experience reorganizes neuromodulatory regulation of stage-specific behavioral responses and individuality dimensions during development. *eLife*, 12.

Arellano Spadaro J, et al. (2023) 3'sialyllactose and 6'sialyllactose enhance performance in endurance-type exercise through metabolic adaptation. *Food science & nutrition*, 11(10), 6199.

Olson AC, et al. (2023) Multiple Subthreshold GPCR Signals Combined by the G-Proteins G α q and G α s Activate the *Caenorhabditis elegans* Egg-Laying Muscles. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 43(21), 3789.

Aprison EZ, et al. (2023) Serotonergic signaling plays a deeply conserved role in improving oocyte quality. *Developmental biology*, 499, 24.

Liu J, et al. (2023) GABAergic signaling between enteric neurons and intestinal smooth muscle promotes innate immunity and gut defense in *Caenorhabditis elegans*. *Immunity*, 56(7), 1515.

Yu J, et al. (2023) Parallel pathways for serotonin biosynthesis and metabolism in *C. elegans*. *Nature chemical biology*, 19(2), 141.

Pu L, et al. (2023) Hypoxia induces food leaving in *C. elegans*. *microPublication biology*, 2023.

Gildea HK, et al. (2022) Glia of *C. elegans* coordinate a protective organismal heat shock response independent of the neuronal thermosensory circuit. *Science advances*, 8(49), eabq3970.

Aprison EZ, et al. (2022) The serotonin circuit that coordinates germline proliferation and egg laying with other reproductive functions in *Caenorhabditis elegans*. *Proceedings. Biological sciences*, 289(1987), 20220913.