Resource Summary Report

Generated by NIF on Sep 4, 2026

DA1877

RRID:WB-STRAIN:WBStrain00040995
Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00040995

Organism Information

URL: http://www.wormbase.org/db/get?name=WBStrain00040995

Proper Citation: RRID:WB-STRAIN:WBStrain00040995

Description: Comamonas sp. with name Comamonas sp. from WB.

Species: Comamonas sp.

Synonyms: Comamonas sp.

Notes: Bacteria. Comamonas sp., a bacterium on which C. elegans grows particularly well. Str-R. DA1877 is derived from a bacterium isolated from soil in the Dallas area by Boris Shtonda in 2002. That strain was called H39 in Avery, L, Shtonda, BB (2003), Food transport in the C elegans pharynx, J Exp Biol 206: 2441-2457. It was identified as genus Comamonas by 16S rDNA sequencing, as described in the paper. L. Avery isolated a spontaneous streptomycin-resistant variant by selecting for growth in LB broth + 200 ug/ml streptomycin sulfate. This strain, when spread on NGMSR plates, gave rise to faster-growing papillae; one of these was streaked out to get DA1877. Biosafety Level: BSL-1.|"Non-elegans Strain"|"WBStrain mapped, WBPaper00057239 added based on AFP_Strain data."

Catalog Number: WB-STRAIN:WBStrain00040995

Database: WormBase (WB)

Database Abbreviation: WB

Availability: available

Source References: PMID:31444089, PMID:33542359, PMID:39289374

Alternate IDs: WB-STRAIN:DA1877, CGC_DA1877

Organism Name: DA1877

Record Creation Time: 20230227T013729+0000

Record Last Update: 20260829T162425+0000

Ratings and Alerts

No rating or validation information has been found for DA1877.

No alerts have been found for DA1877.

Data and Source Information

Source: Integrated Animals

Source Database: WormBase (WB)

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

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.

Kang WK, et al. (2024) Vitamin B12 produced by gut bacteria modulates cholinergic signalling. Nature cell biology, 26(1), 72.

Laranjeira AC, et al. (2024) Nutritional vitamin B12 regulates RAS/MAPK-mediated cell fate decisions through one-carbon metabolism. Nature communications, 15(1), 8178.

Levichev A, et al. (2023) The conserved endocannabinoid anandamide modulates olfactory sensitivity to induce hedonic feeding in C.??elegans. Current biology : CB, 33(9), 1625.

Jordan DJ, et al. (2023) Canalisation and plasticity on the developmental manifold of Caenorhabditis elegans. Molecular systems biology, 19(11), e11835.

Goh GYS, et al. (2023) Mediator subunit MDT-15 promotes expression of propionic acid breakdown genes to prevent embryonic lethality in Caenorhabditis elegans. G3 (Bethesda, Md.), 13(6).