

Resource Summary Report

Generated by SPARC SAWG on Aug 9, 2026

TTMN CU428

RRID:TSC_SD01419

Type: Organism

Proper Citation

RRID:TSC_SD01419

Organism Information

URL: <https://sites.wustl.edu/tetrahymena/finding-strains/>

Proper Citation: RRID:TSC_SD01419

Description: Tetrahymena thermophila with name TTMN CU428 from TSC.

Species: Tetrahymena thermophila

Notes: CU428 transformed by pTTMN construct and cells selected with 10 mg/ml paromomycin. Partially replaced. Still has wt Metallothionein gene copies in mac as well as other alleles with neo coding.

Affected Gene: MTT1 (TTHERM_00241640)

Genomic Alteration: Macronucleus: Neo coding replaces MTT1 coding of some of MTT1 copies, both present

Catalog Number: SD01419

Background: mpr1-1/mpr1-1 (pm-r, VII)

Database: TSC, Tetrahymena Stock Center

Database Abbreviation: TSC

Source References: [PMID:11891286](#)

Organism Name: TTMN CU428

Record Creation Time: 20230308T214035+0000

Record Last Update: 20260808T234131+0000

Ratings and Alerts

No rating or validation information has been found for TTMN CU428.

No alerts have been found for TTMN CU428.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: TSC, Tetrahymena Stock Center

Usage and Citation Metrics

We found 104 mentions in open access literature.

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

Pradhan A, et al. (2025) Maturation stage-specific V-ATPase disassembly explains the neutral pH of mature mucocyst lysosome-related organelles in *Tetrahymena thermophila*. *Journal of cell science*, 138(23).

Nabeel-Shah S, et al. (2023) Multilevel interrogation of H3.3 reveals a primordial role in transcription regulation. *Epigenetics & chromatin*, 16(1), 10.

Legal T, et al. (2023) Molecular architecture of the ciliary tip revealed by cryo-electron tomography. *bioRxiv : the preprint server for biology*.

Zhang L, et al. (2023) Transcriptome analysis of the binucleate ciliate *Tetrahymena thermophila* with asynchronous nuclear cell cycles. *Molecular biology of the cell*, 34(2), rs1.

Azuma Y, et al. (2023) Synthetic symbiosis between a cyanobacterium and a ciliate toward novel chloroplast-like endosymbiosis. *Scientific reports*, 13(1), 6104.

Kuppannan A, et al. (2022) A novel membrane complex is required for docking and regulated exocytosis of lysosome-related organelles in *Tetrahymena thermophila*. *PLoS genetics*, 18(5), e1010194.

Mo Z, et al. (2022) Protection of Grouper Against Cryptocaryon irritans by Immunization With *Tetrahymena thermophila* and Protective Cross-Reactive Antigen Identification. *Frontiers in immunology*, 13, 891643.

Lian Y, et al. (2022) Histone Chaperone Nrp1 Mutation Affects the Acetylation of H3K56 in *Tetrahymena thermophila*. *Cells*, 11(3).

Kurnia KA, et al. (2022) Performance Comparison of Five Methods for *Tetrahymena* Number Counting on the ImageJ Platform: Assessing the Built-in Tool and Machine-Learning-Based Extension. *International journal of molecular sciences*, 23(11).

Fukuda Y, et al. (2022) Snf2 Proteins Are Required to Generate Gamete Pronuclei in *Tetrahymena thermophila*. *Microorganisms*, 10(12).

Sanchez Granel ML, et al. (2022) A novel *Tetrahymena thermophila* sterol C-22 desaturase belongs to the fatty acid hydroxylase/desaturase superfamily. *The Journal of biological chemistry*, 298(10), 102397.

Qiao Y, et al. (2022) Identification and utilization of a mutated 60S ribosomal subunit coding gene as an effective and cost-efficient selection marker for *Tetrahymena* genetic manipulation. *International journal of biological macromolecules*, 204, 1.

Suryanto ME, et al. (2022) Establishing a High-Throughput Locomotion Tracking Method for Multiple Biological Assessments in *Tetrahymena*. *Cells*, 11(15).

Rao Q, et al. (2021) Structures of outer-arm dynein array on microtubule doublet reveal a motor coordination mechanism. *Nature structural & molecular biology*, 28(10), 799.

Pyrih J, et al. (2021) The iron-sulfur scaffold protein HCF101 unveils the complexity of organellar evolution in SAR, Haptista and Cryptista. *BMC ecology and evolution*, 21(1), 46.

Lian Y, et al. (2021) The histone chaperone Nrp1 is required for chromatin stability and nuclear division in *Tetrahymena thermophila*. *Epigenetics & chromatin*, 14(1), 34.

Bo T, et al. (2021) Atg5 Regulates Selective Autophagy of the Parental Macronucleus during *Tetrahymena* Sexual Reproduction. *Cells*, 10(11).

Hernández J, et al. (2021) Phagocytic and pinocytic uptake of cholesterol in *Tetrahymena thermophila* impact differently on gene regulation for sterol homeostasis. *Scientific reports*, 11(1), 9067.

Kar UP, et al. (2021) Cardiolipin targets a dynamin-related protein to the nuclear membrane. *eLife*, 10.

Nabeel-Shah S, et al. (2021) Functional characterization of RebL1 highlights the evolutionary conservation of oncogenic activities of the RBBP4/7 orthologue in *Tetrahymena thermophila*. *Nucleic acids research*, 49(11), 6196.