Resource Summary Report

Generated by NIF on Sep 4, 2026

RB2582

RRID:WB-STRAIN:WBStrain00033257
Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00033257

Organism Information

URL: http://www.wormbase.org/db/get?name=WBStrain00033257

Proper Citation: RRID:WB-STRAIN:WBStrain00033257

Description: Caenorhabditis elegans with name tsp-1(ok3594) III. from WB.

Species: Caenorhabditis elegans

Synonyms: tsp-1(ok3594) III.

Notes: C02F5.8 Homozygous. Outer Left Sequence: ccagcattgcaagactcaaa. Outer Right Sequence: aaggactacgccagcttgaa. Inner Left Sequence: ccttgacgtcattccgatct. Inner Right Sequence: tcaaaagtgttagcattaacgaaa. Inner Primer PCR Length: 1252. Estimated Deletion Size: about 600 bp.|"Made_by: OMRF Knockout Group"|"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: WBGene00006627(tsp-1)

Genomic Alteration: WBGene00006627(tsp-1)

Catalog Number: WB-STRAIN:WBStrain00033257

Database: WormBase (WB)

Database Abbreviation: WB

Availability: available

Source References: PMID:36798906

Alternate IDs: WB-STRAIN:RB2582, CGC_RB2582

Organism Name: RB2582

Record Creation Time: 20230227T013629+0000

Record Last Update: 20260829T162156+0000

Ratings and Alerts

No rating or validation information has been found for RB2582.

No alerts have been found for RB2582.

Data and Source Information

Source: Integrated Animals

Source Database: WormBase (WB)

Usage and Citation Metrics

We found 15 mentions in open access literature.

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

Jiang WI, et al. (2024) Early-life stress triggers long-lasting organismal resilience and longevity via tetraspanin. Science advances, 10(4), eadj3880.

Jiang WI, et al. (2023) Early-life stress triggers long-lasting organismal resilience and longevity via tetraspanin. bioRxiv : the preprint server for biology.

Finburgh EN, et al. (2023) Role of FGF10/FGFR2b Signaling in Homeostasis and Regeneration of Adult Lacrimal Gland and Corneal Epithelium Proliferation. Investigative ophthalmology & visual science, 64(1), 21.

Sui L, et al. (2022) PRSS2 remodels the tumor microenvironment via repression of Tsp1 to stimulate tumor growth and progression. Nature communications, 13(1), 7959.

Grenier C, et al. (2021) Dual Role of Thrombospondin-1 in Flow-Induced Remodeling. International journal of molecular sciences, 22(21).

Logeswaran A, et al. (2021) Conjunctival Goblet Cell Responses to TLR5 Engagement Promote Activation of Local Antigen-Presenting Cells. Frontiers in immunology, 12, 716939.

Frampton G, et al. (2020) Inhibition of thrombospondin-1 reduces glutathione activity and worsens acute liver injury during acetaminophen hepatotoxicity in mice. Toxicology and applied pharmacology, 409, 115323.

Bhattacharya S, et al. (2018) Alteration in nerves and neurotransmitter stimulation of lacrimal gland secretion in the TSP-1-/- mouse model of aqueous deficiency dry eye.

Mucosal immunology, 11(4), 1138.

Tatematsu Y, et al. (2018) Thrombospondin-1 Is Necessary for the Development and Repair of Corneal Nerves. International journal of molecular sciences, 19(10).

Ganguly R, et al. (2017) Oral chromium picolinate impedes hyperglycemia-induced atherosclerosis and inhibits proatherogenic protein TSP-1 expression in STZ-induced type 1 diabetic ApoE-/- mice. Scientific reports, 7, 45279.

Gromova A, et al. (2017) Lacrimal Gland Repair Using Progenitor Cells. Stem cells translational medicine, 6(1), 88.

Schadler KL, et al. (2016) Tumor vessel normalization after aerobic exercise enhances chemotherapeutic efficacy. Oncotarget, 7(40), 65429.

Martin-Manso G, et al. (2012) Endogenous thrombospondin-1 regulates leukocyte recruitment and activation and accelerates death from systemic candidiasis. PloS one, 7(11), e48775.

Cursiefen C, et al. (2011) Thrombospondin 1 inhibits inflammatory lymphangiogenesis by CD36 ligation on monocytes. The Journal of experimental medicine, 208(5), 1083.

Olerud J, et al. (2008) Improved vascular engraftment and graft function after inhibition of the angiostatic factor thrombospondin-1 in mouse pancreatic islets. Diabetes, 57(7), 1870.