

Resource Summary Report

Generated by [kravitz2](#) on Aug 1, 2026

B6.129S2-Thbs1^{tm1Hyn}/J

RRID:IMSR_JAX:006141

Type: Organism

Proper Citation

RRID:IMSR_JAX:006141

Organism Information

URL: <https://www.jax.org/strain/006141>

Proper Citation: RRID:IMSR_JAX:006141

Description: Mus musculus with name B6.129S2-Thbs1^{tm1Hyn}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: thrombospondin 1; mutant strain|congenic strain: Thbs1

Affected Gene: thrombospondin 1

Genomic Alteration: targeted mutation 1; Richard Hynes

Catalog Number: JAX:006141

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S2-Thbs1^{tm1Hyn}/J

Record Creation Time: 20250513T053655+0000

Record Last Update: 20260801T050359+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S2-Thbs1^{tm1Hyn}/J.

No alerts have been found for B6.129S2-Thbs1^{tm1Hyn}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 16 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Wang F, et al. (2025) Blockade of TSP-1/CD47 signal axis promotes donor hematopoietic engraftment by improving SEC/MK niche function. *iScience*, 28(3), 111952.

Zhou T, et al. (2024) Myeloid-Specific Thrombospondin-1 Deficiency Exacerbates Aortic Rupture via Broad Suppression of Extracellular Matrix Proteins. *bioRxiv : the preprint server for biology*.

Vanhoutte D, et al. (2024) Thbs1 regulates skeletal muscle mass in a TGF β -Smad2/3-ATF4-dependent manner. *Cell reports*, 43(5), 114149.

Lin JB, et al. (2024) Targeting cell-type-specific, choroid-peripheral immune signaling to treat age-related macular degeneration. *Cell reports. Medicine*, 5(1), 101353.

Trotta MC, et al. (2023) Oral Administration of Vitamin D3 Prevents Corneal Damage in a Knock-Out Mouse Model of Sjögren's Syndrome. *Biomedicines*, 11(2).

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.

Delcroix V, et al. (2023) Lacrimal Gland Epithelial Cells Shape Immune Responses through the Modulation of Inflammasomes and Lipid Metabolism. *International journal of molecular sciences*, 24(5).

Kaneshige A, et al. (2022) Relayed signaling between mesenchymal progenitors and muscle stem cells ensures adaptive stem cell response to increased mechanical load. *Cell stem cell*, 29(2), 265.

Peñaloza HF, et al. (2021) Thrombospondin-1 Restricts Interleukin-36 γ -Mediated Neutrophilic Inflammation during *Pseudomonas aeruginosa* Pulmonary Infection. *mBio*, 12(2).

Vanhoutte D, et al. (2021) Thbs1 induces lethal cardiac atrophy through PERK-ATF4 regulated autophagy. *Nature communications*, 12(1), 3928.

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.

Rolfes V, et al. (2020) Platelets Fuel the Inflammasome Activation of Innate Immune Cells. *Cell reports*, 31(6), 107615.

Seif K, et al. (2018) Neutrophil-Mediated Proteolysis of Thrombospondin-1 Promotes Platelet Adhesion and String Formation. *Thrombosis and haemostasis*, 118(12), 2074.

Hu Z, et al. (2017) Stimulation of synapse formation between stem cell-derived neurons and native brainstem auditory neurons. *Scientific reports*, 7(1), 13843.

Zhao Y, et al. (2015) Thrombospondin-1 restrains neutrophil granule serine protease function and regulates the innate immune response during *Klebsiella pneumoniae* infection. *Mucosal immunology*, 8(4), 896.

Zhao Y, et al. (2014) Thrombospondin-1 triggers macrophage IL-10 production and promotes resolution of experimental lung injury. *Mucosal immunology*, 7(2), 440.