

Resource Summary Report

Generated by [NIF](#) on Sep 14, 2026

[Tnfrsf1b^{tm1.1Gkl}/Tnfrsf1b^{tm1.1Gkl}; Tnf^{tm2Gkl}/Tnf⁺; Tg\(Col6a1-cre\)1Gkl](#)

RRID:MGI:6195612

Type: Organism

Proper Citation

RRID:MGI:6195612

Organism Information

URL:

Proper Citation: RRID:MGI:6195612

Description: Allele Detail: Transgenic, Targeted This is a legacy resource.

Species: Mus musculus

Notes: Allele Detail: Transgenic, Targeted This is a legacy resource.

Phenotype: abnormal fibroblast physiology, abnormal wound healing, abnormal cell physiology, cardiovascular system phenotype, increased circulating tumor necrosis factor level, increased tumor necrosis factor secretion, joint inflammation, abnormal cell adhesion

Affected Gene: Tnfrsf1b, Tnf

Genomic Alteration: tm1.1Gkl, Tg(Col6a1-cre)1Gkl, tm2Gkl

Catalog Number: 6195612

Background: involves: 129S/SvEv * C57BL/6 * C57BL/6J * CBA

Database: MGI, Mouse Genome Informatics MGI

Database Abbreviation: MGI

Availability: Availability unknown check source stock center

Source References: [PMID:29618659](#)

Organism Name: Tnfrsf1b^{tm1.1Gkl}/Tnfrsf1b^{tm1.1Gkl}; Tnf^{tm2Gkl}/Tnf⁺; Tg(Col6a1-cre)1Gkl

Record Creation Time: 20240120T185810+0000

Record Last Update: 20240130T201529+0000

Ratings and Alerts

No rating or validation information has been found for Tnfrsf1b^{tm1.1Gkl}/Tnfrsf1b^{tm1.1Gkl}; Tnf^{tm2Gkl}/Tnf⁺; Tg(Col6a1-cre)1Gkl.

No alerts have been found for Tnfrsf1b^{tm1.1Gkl}/Tnfrsf1b^{tm1.1Gkl}; Tnf^{tm2Gkl}/Tnf⁺; Tg(Col6a1-cre)1Gkl.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: MGI, Mouse Genome Informatics MGI

Usage and Citation Metrics

We found 26 mentions in open access literature.

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

Kenney HM, et al. (2023) Implementation of automated behavior metrics to evaluate voluntary wheel running effects on inflammatory-erosive arthritis and interstitial lung disease in TNF-Tg mice. Arthritis research & therapy, 25(1), 17.

Kenney HM, et al. (2022) A high-throughput semi-automated bone segmentation workflow for murine hindpaw micro-CT datasets. Bone reports, 16, 101167.

Shi H, et al. (2022) Euphorbia factor L3 ameliorates rheumatoid arthritis by suppressing the inflammatory response by targeting Rac family small GTPase 1. Bioengineered, 13(4), 10984.

Fenton CG, et al. (2022) 11?-Hydroxysteroid Dehydrogenase Type 1 within Osteoclasts Mediates the Bone Protective Properties of Therapeutic Corticosteroids in Chronic Inflammation. International journal of molecular sciences, 23(13).

Wang Y, et al. (2022) Huangqi Guizhi Wuwu Decoction Improves Arthritis and Pathological Damage of Heart and Lung in TNF-Tg Mice. Frontiers in pharmacology, 13, 871481.

Kenney HM, et al. (2022) Single-cell transcriptomics of popliteal lymphatic vessels and peripheral veins reveals altered lymphatic muscle and immune cell populations in the TNF-Tg arthritis model. Arthritis research & therapy, 24(1), 64.

Hamilton KL, et al. (2022) Maackia amurensis seed lectin (MASL) ameliorates articular cartilage destruction and increases movement velocity of mice with TNF? induced rheumatoid arthritis. Biochemistry and biophysics reports, 32, 101341.

Kenney HM, et al. (2022) Persistent popliteal lymphatic muscle cell coverage defects despite amelioration of arthritis and recovery of popliteal lymphatic vessel function in TNF-Tg mice following anti-TNF therapy. *Scientific reports*, 12(1), 12751.

Liang Q, et al. (2021) Lymphatic muscle cells contribute to dysfunction of the synovial lymphatic system in inflammatory arthritis in mice. *Arthritis research & therapy*, 23(1), 58.

Fenton C, et al. (2021) Local steroid activation is a critical mediator of the anti-inflammatory actions of therapeutic glucocorticoids. *Annals of the rheumatic diseases*, 80(2), 250.

Jiao D, et al. (2021) Notoginsenoside R1 (NG-R1) Promoted Lymphatic Drainage Function to Ameliorating Rheumatoid Arthritis in TNF-Tg Mice by Suppressing NF- κ B Signaling Pathway. *Frontiers in pharmacology*, 12, 730579.

Scallan JP, et al. (2021) Ex vivo Demonstration of Functional Deficiencies in Popliteal Lymphatic Vessels From TNF-Transgenic Mice With Inflammatory Arthritis. *Frontiers in physiology*, 12, 745096.

Liao X, et al. (2021) Preparation and characterization of a fully human monoclonal antibody specific for human tumor necrosis factor alpha. *Bioengineered*, 12(2), 10821.

Li J, et al. (2020) BAD inactivation exacerbates rheumatoid arthritis pathology by promoting survival of sublining macrophages. *eLife*, 9.

Hou T, et al. (2020) Ginsenoside Rg1 promotes lymphatic drainage and improves chronic inflammatory arthritis. *Journal of musculoskeletal & neuronal interactions*, 20(4), 526.

Wang T, et al. (2020) Alleviation of Synovial Inflammation of Juanbi-Tang on Collagen-Induced Arthritis and TNF-Tg Mice Model. *Frontiers in pharmacology*, 11, 45.

Bell RD, et al. (2019) iNOS dependent and independent phases of lymph node expansion in mice with TNF-induced inflammatory-erosive arthritis. *Arthritis research & therapy*, 21(1), 240.

Fenton CG, et al. (2019) Therapeutic glucocorticoids prevent bone loss but drive muscle wasting when administered in chronic polyarthritis. *Arthritis research & therapy*, 21(1), 182.

Sun W, et al. (2018) B cells inhibit bone formation in rheumatoid arthritis by suppressing osteoblast differentiation. *Nature communications*, 9(1), 5127.

Chen Y, et al. (2016) Du-Huo-Ji-Sheng-Tang Attenuates Inflammation of TNF-Tg Mice Related to Promoting Lymphatic Drainage Function. *Evidence-based complementary and alternative medicine : eCAM*, 2016, 7067691.