

# Resource Summary Report

Generated by [PRECISE-TBI](#) on Sep 17, 2026

## STOCK Map3k7<sup>tm1.1Gkl</sup>/Flmg

RRID:IMSR\_EM:08404

Type: Organism

### Proper Citation

RRID:IMSR\_EM:08404

### Organism Information

**URL:** <https://www.infrafrontier.eu/emma/strain-details/?q=8404>

**Proper Citation:** RRID:IMSR\_EM:08404

**Description:** Mus musculus with name STOCK Map3k7<sup>tm1.1Gkl</sup>/Flmg from IMSR.

**Species:** Mus musculus

**Synonyms:** TAK1FL/FL

**Notes:** gene symbol note: mitogen-activated protein kinase kinase kinase 7; mutant strain: Map3k7

**Affected Gene:** mitogen-activated protein kinase kinase kinase 7

**Genomic Alteration:** targeted mutation 1.1; George Kollias

**Catalog Number:** EM:08404

**Database:** European Mouse Mutant Archive

**Database Abbreviation:** EMMA

**Availability:** sperm

**Organism Name:** STOCK Map3k7<sup>tm1.1Gkl</sup>/Flmg

**Record Creation Time:** 20250513T062245+0000

**Record Last Update:** 20260912T065201+0000

### Ratings and Alerts

No rating or validation information has been found for STOCK Map3k7<sup>tm1.1Gkl</sup>/Flmg.

No alerts have been found for STOCK Map3k7<sup>tm1.1Gkl</sup>/Flmg.

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## Data and Source Information

**Source:** [Integrated Animals](#)

**Source Database:** European Mouse Mutant Archive

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## Usage and Citation Metrics

We found 13 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [PRECISE-TBI](#) .

Tomaz da Silva M, et al. (2026) TAK1 Regulates Skeletal Muscle Mass, Hypertrophic Signaling, and Metabolic Homeostasis in Male and Female Mice. FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 40(10), e71893.

da Silva MT, et al. (2026) TAK1 regulates skeletal muscle mass, hypertrophic signaling, and metabolic homeostasis in male and female mice. bioRxiv : the preprint server for biology.

Nguyen DC, et al. (2025) TGF $\beta$ -activated kinase 1 signaling controls acquisition of the inflammatory fibroblast phenotype and regulates cardiac remodeling after myocardial infarction. Research square.

Gao X, et al. (2025) Reduction of neuronal activity mediated by blood-vessel regression in the adult brain. Nature communications, 16(1), 5840.

Schneider AT, et al. (2025) A decision point between transdifferentiation and programmed cell death priming controls KRAS-dependent pancreatic cancer development. Nature communications, 16(1), 1765.

Zhang J, et al. (2025) Understanding TAK1 deficiency in microglia: Dual mechanisms for photoreceptor protection in a mouse model of retinitis pigmentosa. Proceedings of the National Academy of Sciences of the United States of America, 122(18), e2423134122.

Sun Z, et al. (2025) Cooperation of TRADD- and RIPK1-dependent cell death pathways in maintaining intestinal homeostasis. Nature communications, 16(1), 1890.

Chauhan A, et al. (2018) Myeloid-specific TAK1 deletion results in reduced brain monocyte infiltration and improved outcomes after stroke. Journal of neuroinflammation, 15(1), 148.

Ismail HM, et al. (2017) Rapid Activation of Transforming Growth Factor  $\beta$ -Activated Kinase 1 in Chondrocytes by Phosphorylation and K63 -Linked Polyubiquitination Upon Injury to Animal Articular Cartilage. Arthritis & rheumatology (Hoboken, N.J.), 69(3), 565.

Xing Y, et al. (2016) Late stages of T cell maturation in the thymus involve NF- $\kappa$ B and tonic type I interferon signaling. Nature immunology, 17(5), 565.

Sanjo H, et al. (2015) Conditional Deletion of TAK1 in T Cells Reveals a Pivotal Role of TCR $\alpha\beta$ <sup>+</sup> Intraepithelial Lymphocytes in Preventing Lymphopenia-Associated Colitis. *PLoS one*, 10(7), e0128761.

Mahmud SA, et al. (2014) Costimulation via the tumor-necrosis factor receptor superfamily couples TCR signal strength to the thymic differentiation of regulatory T cells. *Nature immunology*, 15(5), 473.

Zhao YG, et al. (2011) An essential role for TAK1 in the contact hypersensitivity response. *Cellular & molecular immunology*, 8(4), 315.