

Resource Summary Report

Generated by SPARC SAWG on Aug 9, 2026

B6.Cg-Tg(Sp7-tTA.tetO-EGFP/cre)1Amc/J

RRID:IMSR_JAX:006361

Type: Organism

Proper Citation

RRID:IMSR_JAX:006361

Organism Information

URL: <https://www.jax.org/strain/006361>

Proper Citation: RRID:IMSR_JAX:006361

Description: Mus musculus with name B6.Cg-Tg(Sp7-tTA.tetO-EGFP/cre)1Amc/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: |tetracycline-controlled transactivator|transgene insertion 1; Andrew P McMahon|tet operator; mutant strain|congenic strain: |tTA|Tg(Sp7-tTA;tetO-EGFP/cre)1Amc|tetO

Affected Gene: |tetracycline-controlled transactivator|transgene insertion 1; Andrew P McMahon|tet operator

Genomic Alteration: transgene insertion 1; Andrew P McMahon

Catalog Number: JAX:006361

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Tg(Sp7-tTA.tetO-EGFP/cre)1Amc/J

Record Creation Time: 20250513T053656+0000

Record Last Update: 20260808T050859+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Tg(Sp7-tTA.tetO-EGFP/cre)1Amc/J.

No alerts have been found for B6.Cg-Tg(Sp7-tTA.tetO-EGFP/cre)1Amc/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 29 mentions in open access literature.

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

Xu Z, et al. (2026) Unbiased niche labeling maps immune-excluded niche in bone metastasis. *Cell*, 189(11), 3287.

Ali MM, et al. (2025) Mechanisms of mitochondrial reactive oxygen species action in bone mesenchymal cells. *The Journal of biological chemistry*, 301(9), 110551.

Pi D, et al. (2025) Resolving the design principles that control post-natal vascular growth and scaling. *Cell systems*, 16(7), 101324.

Zhang F, et al. (2025) The ESCRT protein CHMP5 restricts bone formation by controlling endolysosome-mitochondrion-mediated cell senescence. *eLife*, 13.

Liu YL, et al. (2024) Fibrous periosteum repairs bone fracture and maintains the healed bone throughout mouse adulthood. *Developmental cell*, 59(9), 1192.

Zhang Z, et al. (2023) O-GlcNAc glycosylation orchestrates fate decision and niche function of bone marrow stromal progenitors. *eLife*, 12.

Hao X, et al. (2023) Osteoprogenitor-GMP crosstalk underpins solid tumor-induced systemic immunosuppression and persists after tumor removal. *Cell stem cell*, 30(5), 648.

Chachad D, et al. (2023) Unique Transcriptional Profiles Underlie Osteosarcomagenesis Driven by Different p53 Mutants. *Cancer research*, 83(14), 2297.

Hojo H, et al. (2022) Runx2 regulates chromatin accessibility to direct the osteoblast program at neonatal stages. *Cell reports*, 40(10), 111315.

Angelozzi M, et al. (2022) Single-cell atlas of craniogenesis uncovers SOXC-dependent, highly proliferative, and myofibroblast-like osteodermal progenitors. *Cell reports*, 40(2), 111045.

Shen L, et al. (2022) SLC38A2 provides proline to fulfill unique synthetic demands arising during osteoblast differentiation and bone formation. *eLife*, 11.

Emoto T, et al. (2022) Colony stimulating factor-1 producing endothelial cells and mesenchymal stromal cells maintain monocytes within a perivascular bone marrow niche. *Immunity*, 55(5), 862.

Davis JL, et al. (2021) Constitutive activation of NF- κ B inducing kinase (NIK) in the mesenchymal lineage using Osterix (Sp7)- or Fibroblast-specific protein 1 (S100a4)-Cre drives spontaneous soft tissue sarcoma. *PloS one*, 16(7), e0254426.

Agarwal P, et al. (2021) TNF- α -induced alterations in stromal progenitors enhance leukemic stem cell growth via CXCR2 signaling. *Cell reports*, 36(2), 109386.

Yu S, et al. (2021) BMP2-dependent gene regulatory network analysis reveals Klf4 as a novel transcription factor of osteoblast differentiation. *Cell death & disease*, 12(2), 197.

Liu Z, et al. (2021) An adhesion G protein-coupled receptor is required in cartilaginous and dense connective tissues to maintain spine alignment. *eLife*, 10.

Kfoury YS, et al. (2021) tiRNA signaling via stress-regulated vesicle transfer in the hematopoietic niche. *Cell stem cell*, 28(12), 2090.

Behera J, et al. (2021) Probiotics Stimulate Bone Formation in Obese Mice via Histone Methylations. *Theranostics*, 11(17), 8605.

Wang F, et al. (2021) Osteoblastic Wnt1 regulates periosteal bone formation in adult mice. *Bone*, 143, 115754.

Fontana F, et al. (2021) N-cadherin in osteolineage cells modulates stromal support of tumor growth. *Journal of bone oncology*, 28, 100356.