

Resource Summary Report

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

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

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: 20260725T044407+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 28 mentions in open access literature.

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

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

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

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

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.

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

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

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

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

Sharma D, et al. (2021) SLC1A5 provides glutamine and asparagine necessary for bone development in mice. eLife, 10.