

Resource Summary Report

Generated by [FDI Lab - SciCrunch.org](https://www.fdi-lab.org) on Apr 6, 2025

B6N.FVB-Tg(Dmp1-cre)1Jqfe/BwdJ

RRID:IMSR_JAX:023047

Type: Organism

Proper Citation

RRID:IMSR_JAX:023047

Organism Information

URL: <https://www.jax.org/strain/023047>

Proper Citation: RRID:IMSR_JAX:023047

Description: Mus musculus with name B6N.FVB-Tg(Dmp1-cre)1Jqfe/BwdJ from IMSR.

Species: Mus musculus

Synonyms: B6N.Cg-Tg(Dmp1-cre)1Jqfe/BwdJ

Notes: gene symbol note: transgene insertion 1; Jian Q Feng||dentin matrix protein 1|transgene insertion 1; Jian Q Feng||dentin matrix protein 1; mutant strain: Tg(Dmp1-cre)1Jqfe||Dmp1|Tg(Dmp1-cre)1Jqfe||Dmp1

Affected Gene: transgene insertion 1; Jian Q Feng||dentin matrix protein 1|transgene insertion 1; Jian Q Feng||dentin matrix protein 1

Genomic Alteration: transgene insertion 1; Jian Q Feng

Catalog Number: JAX:023047

Database: International Mouse Resource Center IMSR, JAX

Database Abbreviation: IMSR

Availability: sperm

Alternate IDs: IMSR_JAX:23047

Organism Name: B6N.FVB-Tg(Dmp1-cre)1Jqfe/BwdJ

Record Creation Time: 20230509T193317+0000

Record Last Update: 20240104T175054+0000

Ratings and Alerts

No rating or validation information has been found for B6N.FVB-Tg(Dmp1-cre)1Jqfe/BwdJ.

No alerts have been found for B6N.FVB-Tg(Dmp1-cre)1Jqfe/BwdJ.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: International Mouse Resource Center IMSR, JAX

Usage and Citation Metrics

We found 37 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Dole NS, et al. (2024) High-fat and high-carbohydrate diets increase bone fragility through TGF- β -dependent control of osteocyte function. *JCI insight*, 9(16).

Shao X, et al. (2024) Rescuing SERCA2 pump deficiency improves bone mechano-responsiveness in type 2 diabetes by shaping osteocyte calcium dynamics. *Nature communications*, 15(1), 890.

Aobulikasimu A, et al. (2023) SIRT6-PAI-1 axis is a promising therapeutic target in aging-related bone metabolic disruption. *Scientific reports*, 13(1), 7991.

Münz S, et al. (2023) Oncostatin M is a regulator of fibroblast growth factor 23 (FGF23) in UMR106 osteoblast-like cells. *Scientific reports*, 13(1), 8420.

Noonan ML, et al. (2023) Osteocyte EglN1/Phd2 links oxygen sensing and biomineralization via FGF23. *Bone research*, 11(1), 7.

Laster DJ, et al. (2023) CRISPR interference provides increased cell type-specificity compared to the Cre-loxP system. *iScience*, 26(8), 107428.

Kimura M, et al. (2022) The concurrent stimulation of Wnt and FGF8 signaling induce differentiation of dental mesenchymal cells into odontoblast-like cells. *Medical molecular morphology*, 55(1), 8.

Qin L, et al. (2022) Osteocyte α 1 integrin loss causes low bone mass and impairs bone

mechanotransduction in mice. *Journal of orthopaedic translation*, 34, 60.

Xia Y, et al. (2022) Histone H3K27 demethylase, Utx, regulates osteoblast-to-osteocyte differentiation. *Biochemical and biophysical research communications*, 590, 132.

Yoshimoto T, et al. (2022) Osteocytes directly regulate osteolysis via MYD88 signaling in bacterial bone infection. *Nature communications*, 13(1), 6648.

Li Y, et al. (2022) IFT20 governs mesenchymal stem cell fate through positively regulating TGF- β -Smad2/3-Glut1 signaling mediated glucose metabolism. *Redox biology*, 54, 102373.

Canalis E, et al. (2022) Induction of a NOTCH3 Lehman syndrome mutation in osteocytes causes osteopenia in male C57BL/6J mice. *Bone*, 162, 116476.

Dou C, et al. (2022) Sialylation of TLR2 initiates osteoclast fusion. *Bone research*, 10(1), 24.

Wang JS, et al. (2021) Control of osteocyte dendrite formation by Sp7 and its target gene osteocrin. *Nature communications*, 12(1), 6271.

Qin L, et al. (2021) Kindlin-2 mediates mechanotransduction in bone by regulating expression of Sclerostin in osteocytes. *Communications biology*, 4(1), 402.

Feng Y, et al. (2021) Mechanical Loading-Driven Tumor Suppression Is Mediated by Lrp5-Dependent and Independent Mechanisms. *Cancers*, 13(2).

Jing J, et al. (2021) Reciprocal interaction between mesenchymal stem cells and transit amplifying cells regulates tissue homeostasis. *eLife*, 10.

Nilsson KH, et al. (2021) RSPO3 is important for trabecular bone and fracture risk in mice and humans. *Nature communications*, 12(1), 4923.

Du J, et al. (2021) Arid1a-Plagl1-Hh signaling is indispensable for differentiation-associated cell cycle arrest of tooth root progenitors. *Cell reports*, 35(1), 108964.

Liu S, et al. (2021) Overexpression of Lrp5 enhanced the anti-breast cancer effects of osteocytes in bone. *Bone research*, 9(1), 32.