

Resource Summary Report

Generated by [NIF](#) on Sep 17, 2026

B6C3Fe a/a-Col1a2^{oim}/J

RRID:IMSR_JAX:001815

Type: Organism

Proper Citation

RRID:IMSR_JAX:001815

Organism Information

URL: <https://www.jax.org/strain/001815>

Proper Citation: RRID:IMSR_JAX:001815

Description: Mus musculus with name B6C3Fe a/a-Col1a2^{oim}/J from IMSR.

Species: Mus musculus

Synonyms: B6C3Fe-a/a-Col1a2/+

Notes: gene symbol note: collagen; type I; alpha 2|nonagouti; mutant strain: Col1a2|a

Affected Gene: collagen; type I; alpha 2|nonagouti

Genomic Alteration: osteogenesis imperfecta|nonagouti

Catalog Number: JAX:001815

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6C3Fe a/a-Col1a2^{oim}/J

Record Creation Time: 20250513T053627+0000

Record Last Update: 20260912T060412+0000

Ratings and Alerts

No rating or validation information has been found for B6C3Fe a/a-Col1a2^{oim}/J.

No alerts have been found for B6C3Fe a/a-Col1a2^{oim}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 8 mentions in open access literature.

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

Jacobson KR, et al. (2024) Extracellular matrix protein composition dynamically changes during murine forelimb development. *iScience*, 27(2), 108838.

André G, et al. (2023) Col1A-2 Mutation in Osteogenesis Imperfecta Mice Contributes to Long Bone Fragility by Modifying Cell-Matrix Organization. *International journal of molecular sciences*, 24(23).

Ko JY, et al. (2023) Micro Ribonucleic Acid-29a (miR-29a) Antagonist Normalizes Bone Metabolism in Osteogenesis Imperfecta (OI) Mice Model. *Biomedicines*, 11(2).

Shao C, et al. (2022) Up-regulated IL-17 and Tnf signaling in bone marrow cells of young male osteogenesis imperfecta mice. *PeerJ*, 10, e13963.

Chretien A, et al. (2022) Biomechanical, Microstructural and Material Properties of Tendon and Bone in the Young Oim Mice Model of Osteogenesis Imperfecta. *International journal of molecular sciences*, 23(17).

Cardinal M, et al. (2021) Gender-Related Impact of Sclerostin Antibody on Bone in the Osteogenesis Imperfecta Mouse. *Frontiers in genetics*, 12, 705505.

Brodeur AC, et al. (2017) Transforming growth factor- β 1/Smad3-independent epithelial-mesenchymal transition in type I collagen glomerulopathy. *International journal of nephrology and renovascular disease*, 10, 251.

Cheek JD, et al. (2012) Differential activation of valvulogenic, chondrogenic, and osteogenic pathways in mouse models of myxomatous and calcific aortic valve disease. *Journal of molecular and cellular cardiology*, 52(3), 689.