

Resource Summary Report

Generated by [NIF](#) on Aug 18, 2026

[Col1a1^{tm1Jae}/Col1a1^{tm1Jae}](#)

RRID:MGI:3045084

Type: Organism

Proper Citation

RRID:MGI:3045084

Organism Information

URL:

Proper Citation: RRID:MGI:3045084

Description: Allele Detail: Targeted This is a legacy resource.

Species: Mus musculus

Notes: Allele Detail: Targeted This is a legacy resource.

Phenotype: failure of bone resorption, vision/eye phenotype, abnormal osteoblast differentiation, osteopetrosis, abnormal osteoblast differentiation, decreased body weight, ocular hypertension, thick neurocranium, abnormal neurocranium morphology, increased osteoblast apoptosis, abnormal osteocyte morphology, increased osteocyte apoptosis, abnormal osteocyte lacuna morphology, abnormal osteoclast physiology, joint contracture, abnormal limb bone morphology, skeleton phenotype

Affected Gene: Col1a1

Genomic Alteration: tm1Jae

Catalog Number: 3045084

Background: involves: 129S4/SvJae * C57BL/6

Database: MGI, Mouse Genome Informatics MGI

Database Abbreviation: MGI

Availability: Availability unknown check source stock center

Source References: [PMID:12933685](#), [PMID:12657595](#), [PMID:11032854](#), [PMID:10021460](#)

Organism Name: Col1a1^{tm1Jae}/Col1a1^{tm1Jae}

Record Creation Time: 20240120T190657+0000

Record Last Update: 20240130T202131+0000

Ratings and Alerts

No rating or validation information has been found for Col1a1^{tm1Jae}/Col1a1^{tm1Jae}.

No alerts have been found for Col1a1^{tm1Jae}/Col1a1^{tm1Jae}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: MGI, Mouse Genome Informatics MGI

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Northey JJ, et al. (2024) Mechanosensitive hormone signaling promotes mammary progenitor expansion and breast cancer risk. Cell stem cell, 31(1), 106.