

Resource Summary Report

Generated by [dkNET](#) on Sep 16, 2026

B6.129S4-Zmpste24^{tm1Sgy}/Mmucd

RRID:MMRRC_015958-UCD

Type: Organism

Proper Citation

RRID:MMRRC_015958-UCD

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=15958

Proper Citation: RRID:MMRRC_015958-UCD

Description: Mus musculus with name B6.129S4-Zmpste24^{tm1Sgy}/Mmucd from MMRRC.

Species: Mus musculus

Notes: Research areas: ; Mutation Type: Targeted Mutation ; Collection:

Phenotype: fragile skeleton [MP:0000061]| decreased bone mineral density [MP:0000063]| abnormal trabecular bone morphology [MP:0000130]| decreased compact bone thickness [MP:0000135]| abnormal rib morphology [MP:0000150]| kyphosis [MP:0000160]| alopecia [MP:0000414]| abnormal mandible morphology [MP:0000458]| abnormal esophageal squamous epithelium morphology [MP:0000469]| abnormal colon morphology [MP:0000495]| abnormal tibia morphology [MP:0000558]| weakness [MP:0000746]| muscle weakness [MP:0000747]| progressive muscle weakness [MP:0000748]| decreased body weight [MP:0001262]| weight loss [MP:0001263]| abnormal gait [MP:0001406]| aphagia [MP:0001438]| abnormal grip strength [MP:0001515]| abnormal skeleton physiology [MP:0001533]| extended life span [MP:0001661]| postnatal growth retardation [MP:0001732]| premature death [MP:0002083]| abnormal axial skeleton morphology [MP:0002114]| abnormal craniofacial bone morphology [MP:0002116]| abnormal fibula morphology [MP:0002187]| micrognathia [MP:0002639]| abnormal cranial suture morphology [MP:0002835]| abnormal thoracic vertebrae morphology [MP:0003047]| abnormal lumbar vertebrae morphology [MP:0003049]| abnormal cell nucleus morphology [MP:0003111]| abnormal long bone morphology [MP:0003723]| abnormal bone structure [MP:0003795]| abnormal zygomatic arch morphology [MP:0004469]| dilated esophagus [MP:0004548]| rib fractures [MP:0004675]| cachexia [MP:0005150]| abnormal zygomatic bone morphology [MP:0005270]| abnormal incisor morphology [MP:0005358]| increased susceptibility to weight gain [MP:0005455]| abnormal skeleton morphology [MP:0005508]| decreased circulating glucose level [MP:0005560]| decreased circulating total protein level

[MP:0005567]| abnormal cell physiology [MP:0005621]| decreased survivor rate [MP:0008770]| decreased subcutaneous adipose tissue amount [MP:0008844]| distended cecum [MP:0009480]| decreased susceptibility to bone fracture [MP:0009878]| decreased grip strength [MP:0010053]| postnatal lethality [MP:0011085]| complete penetrance [MP:0011570]| esophageal achalasia [MP:0030082]| long lower incisors [MP:0030136]

Affected Gene: Zmpste24

Catalog Number: 015958-UCD

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:11399759](#), [PMID:30001457](#)

Alternate IDs: MMRRC_15958-UCD, MMRRC_015958, MMRRC_15958

Organism Name: B6.129S4-Zmpste24^{tm1Sgy}/Mmucd

Record Creation Time: 20230308T054938+0000

Record Last Update: 20260912T134341+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S4-Zmpste24^{tm1Sgy}/Mmucd.

No alerts have been found for B6.129S4-Zmpste24^{tm1Sgy}/Mmucd.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Mutant Mouse Resource and Research Center (MMRRC)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Choi JY, et al. (2018) Diminished Canonical ??-Catenin Signaling During Osteoblast Differentiation Contributes to Osteopenia in Progeria. Journal of bone and mineral research : the official journal of the American Society for Bone and Mineral Research, 33(11), 2059.