

Resource Summary Report

Generated by [dkNET](#) on Jul 30, 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: 20260725T163814+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 β -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.