

Resource Summary Report

Generated by [FDI Lab - SciCrunch.org](https://www.fdi-lab.org) on Apr 24, 2025

B6;129X1-Prkaca^{tm1Gsm}/Mmnc

RRID:MMRRC_000199-UNC

Type: Organism

Proper Citation

RRID:MMRRC_000199-UNC

Organism Information

URL: https://www.mmrc.org/catalog/sds.php?mmrc_id=199

Proper Citation: RRID:MMRRC_000199-UNC

Description: Mus musculus with name B6;129X1-Prkaca^{tm1Gsm}/Mmnc from MMRRC.

Species: Mus musculus

Notes: Research areas: Apoptosis, Cardiovascular, Cell Biology, Developmental Biology, Diabetes, Endocrine Deficiency, Immunology and Inflammation, Metabolism, Neurobiology, Reproduction; Mutation Type: Targeted Mutation ; Collection:

Phenotype: decreased bone mineral density [MP:0000063]| exencephaly [MP:0000914]| abnormal dorsal root ganglion morphology [MP:0000961]| disorganized dorsal root ganglion [MP:0000962]| decreased body weight [MP:0001262]| postnatal growth retardation [MP:0001732]| pericardial edema [MP:0001787]| male infertility [MP:0001925]| postnatal lethality [MP:0002082]| abnormal skeleton development [MP:0002113]| abnormal neural tube morphology [MP:0002151]| asthenozoospermia [MP:0002675]| abnormal bone mineralization [MP:0002896]| abnormal neuron specification [MP:0002948]| decreased urine protein level [MP:0002963]| spina bifida [MP:0003054]| increased osteosarcoma incidence [MP:0003789]| abnormal compact bone morphology [MP:0003797]| abnormal spine curvature [MP:0004174]| abnormal embryonic neuroepithelium morphology [MP:0004261]| abnormal vertebral arch morphology [MP:0004599]| abnormal vertebral column morphology [MP:0004703]| decreased trabecular bone thickness [MP:0009346]| increased osteochondroma incidence [MP:0010079]| increased skeletal tumor incidence [MP:0010280]| abnormal periosteum morphology [MP:0010971]| postnatal lethality [MP:0011086]| incomplete penetrance [MP:0011092]| embryonic lethality [MP:0011097]| complete penetrance [MP:0012505]

Affected Gene: Prkaca

Catalog Number: 000199-UNC

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:11875122](#)

Alternate IDs: MMRRC_199-UNC, MMRRC_000199, MMRRC_199

Organism Name: B6;129X1-*Prkaca*^{tm1Gsm}/Mmnc

Record Creation Time: 20230308T054751+0000

Record Last Update: 20250419T222356+0000

Ratings and Alerts

No rating or validation information has been found for B6;129X1-*Prkaca*^{tm1Gsm}/Mmnc.

No alerts have been found for B6;129X1-*Prkaca*^{tm1Gsm}/Mmnc.

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 [FDI Lab - SciCrunch.org](#).

Briassoulis G, et al. (2016) Studies of mice with cyclic AMP-dependent protein kinase (PKA) defects reveal the critical role of PKA's catalytic subunits in anxiety. Behavioural brain research, 307, 1.