

Resource Summary Report

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

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

RRID:MMRRC_000199-UNC

Type: Organism

Proper Citation

RRID:MMRRC_000199-UNC

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_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: 20260912T133932+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 [NIF](#) .

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.