

Resource Summary Report

Generated by [RRID](#) on Aug 5, 2026

B6;129S7-Bmpr1a^{tm1Bhr}/Mmnc

RRID:MMRRC_016131-UNC

Type: Organism

Proper Citation

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Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=16131

Proper Citation: RRID:MMRRC_016131-UNC

Description: Mus musculus with name B6;129S7-Bmpr1a^{tm1Bhr}/Mmnc from MMRRC.

Species: Mus musculus

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

Phenotype: abnormal heart morphology [MP:0000266] abnormal hair follicle morphology [MP:0000377] small hair follicles [MP:0000380] abnormal hair follicle orientation [MP:0000383] alopecia [MP:0000414] microcephaly [MP:0000433] abnormal hindlimb morphology [MP:0000556] absent hindlimb [MP:0000557] polydactyly [MP:0000562] syndactyly [MP:0000564] ectopic digits [MP:0000568] abnormal lung morphology [MP:0001175] abnormal lung development [MP:0001176] abnormal eye development [MP:0001286] anophthalmia [MP:0001293] abnormal retina morphology [MP:0001325] absent mesoderm [MP:0001683] failure of primitive streak formation [MP:0001693] decreased embryo size [MP:0001698] secondary sex reversal [MP:0001939] respiratory distress [MP:0001954] abnormal hair growth [MP:0002073] abnormal embryonic tissue morphology [MP:0002085] abnormal digit morphology [MP:0002110] abnormal tail morphology [MP:0002111] abnormal respiratory system physiology [MP:0002133] abnormal neural tube morphology [MP:0002151] abnormal tricuspid valve morphology [MP:0002624] male pseudohermaphroditism [MP:0002789] abnormal impulse conducting system conduction [MP:0003137] abnormal hair shaft morphology [MP:0003809] abnormal hair follicle dermal papilla morphology [MP:0003813] abnormal pituitary gland development [MP:0003816] abnormal embryonic-extraembryonic boundary morphology [MP:0003890] decreased cardiac muscle contractility [MP:0005140] cyclopia [MP:0005163] abnormal retinal pigment epithelium morphology [MP:0005201] mitral valve regurgitation [MP:0006045] enophthalmos [MP:0006198] abnormal lung epithelium morphology [MP:0006382] abnormal retinal ganglion cell morphology [MP:0008056]

absent PR interval [MP:0010512]| Ebstein's malformation of tricuspid valve [MP:0010536]| abnormal mitral valve cusp morphology [MP:0010614]| abnormal tricuspid valve cusp morphology [MP:0010622]| decreased type II pneumocyte number [MP:0010811]| postnatal lethality [MP:0011085]| complete penetrance [MP:0011096]| embryonic lethality between implantation and somite formation [MP:0011098]| complete penetrance [MP:0011101]| embryonic lethality during organogenesis [MP:0011186]| complete penetrance [MP:0011190]| prenatal lethality [MP:0011191]| incomplete penetrance [MP:0011192]| abnormal visceral endoderm morphology [MP:0012085]| thick embryonic epiblast [MP:0013351]| increased embryonic epiblast cell apoptosis [MP:0030005]

Affected Gene: Bmpr1a

Catalog Number: 016131-UNC

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:8543149](https://pubmed.ncbi.nlm.nih.gov/25443149/)

Alternate IDs: MMRRC_16131-UNC, MMRRC_016131, MMRRC_16131

Organism Name: B6;129S7-*Bmpr1a*^{tm1Bhr}/Mmnc

Record Creation Time: 20230308T054939+0000

Record Last Update: 20260801T123736+0000

Ratings and Alerts

No rating or validation information has been found for B6;129S7-*Bmpr1a*^{tm1Bhr}/Mmnc.

No alerts have been found for B6;129S7-*Bmpr1a*^{tm1Bhr}/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 [RRID](#) .

Omi M, et al. (2023) Increased BMP-Smad signaling does not affect net bone mass in long bones. *Frontiers in physiology*, 14, 1145763.