Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 2, 2025

STOCK *Bmpr1a*$^{tm2.1Bhr}$/Mmnc

RRID:MMRRC_030469-UNC
Type: Organism

Proper Citation

RRID:MMRRC_030469-UNC

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=30469

Proper Citation: RRID:MMRRC_030469-UNC

Description: Mus musculus with name STOCK *Bmpr1a*$^{tm2.1Bhr}$/Mmnc from MMRRC.

Species: Mus musculus

Notes: Research areas: Cardiovascular, Developmental Biology, Models for Human Disease, Neurobiology, Reproduction; Mutation Type: Targeted Mutation ; Collection:

Phenotype: abnormal ear shape [MP:0000022]| delayed bone ossification [MP:0000060]| abnormal long bone epiphysis morphology [MP:0000131]| abnormal cartilage development [MP:0000164]| abnormal chondrocyte morphology [MP:0000166]| abnormal vascular development [MP:0000259]| abnormal heart morphology [MP:0000266]| absent atrioventricular cushions [MP:0000298]| decreased cell proliferation [MP:0000352]| short snout [MP:0000445]| short limbs [MP:0000547]| abnormal radius morphology [MP:0000552]| abnormal hindlimb morphology [MP:0000556]| absent hindlimb [MP:0000557]| polydactyly [MP:0000562]| syndactyly [MP:0000564]| ectopic digits [MP:0000568]| short tail [MP:0000592]| abnormal joint capsule morphology [MP:0000997]| abnormal lung morphology [MP:0001175]| abnormal lung development [MP:0001176]| abnormal eye development [MP:0001286]| anophthalmia [MP:0001293]| abnormal retina morphology [MP:0001325]| abnormal skeleton physiology [MP:0001533]| abnormal osteoclast physiology [MP:0001541]| internal hemorrhage [MP:0001634]| decreased embryo size [MP:0001698]| abnormal visceral yolk sac morphology [MP:0001718]| pale yolk sac [MP:0001722]| embryonic growth arrest [MP:0001730]| hemorrhage [MP:0001914]| secondary sex reversal [MP:0001939]| respiratory distress [MP:0001954]| postnatal lethality [MP:0002082]| premature death [MP:0002083]| abnormal digit morphology [MP:0002110]| abnormal skeleton development [MP:0002113]| abnormal respiratory system physiology [MP:0002133]| no abnormal

phenotype detected [MP:0002169]| small heart [MP:0002188]| abnormal tricuspid valve morphology [MP:0002624]| persistent truncus arteriosis [MP:0002633]| chondrodystrophy [MP:0002657]| abnormal vein morphology [MP:0002725]| male pseudohermaphroditism [MP:0002789]| abnormal notochord morphology [MP:0002825]| abnormal impulse conducting system conduction [MP:0003137]| fused joints [MP:0003189]| abnormal cardiomyocyte apoptosis [MP:0003221]| abnormal vascular branching morphogenesis [MP:0003227]| abnormal vitelline vasculature morphology [MP:0003229]| osteoarthritis [MP:0003560]| abnormal fetal cardiomyocyte proliferation [MP:0003567]| pallor [MP:0003717]| abnormal bone structure [MP:0003795]| vascular smooth muscle hypoplasia [MP:0003814]| abnormal pituitary gland development [MP:0003816]| decreased fetal size [MP:0004200]| increased squamous cell carcinoma incidence [MP:0004207]| enlarged parietal bone [MP:0004421]| decreased length of long bones [MP:0004686]| abnormal vertebral column morphology [MP:0004703]| decreased osteoclast cell number [MP:0004985]| abnormal ulna morphology [MP:0005108]| decreased cardiac muscle contractility [MP:0005140]| abnormal retinal pigment epithelium morphology [MP:0005201]| abnormal vertebrae development [MP:0005225]| pericardial effusion [MP:0005312]| osteosclerosis [MP:0005422]| abnormal skeleton morphology [MP:0005508]| increased bone mass [MP:0005605]| mitral valve regurgitation [MP:0006045]| abnormal digit development [MP:0006280]| abnormal lung epithelium morphology [MP:0006382]| abnormal epiphyseal plate morphology [MP:0006395]| abnormal articular cartilage morphology [MP:0006433]| abnormal retinal ganglion cell morphology [MP:0008056]| abnormal joint mobility [MP:0008069]| failure of endochondral bone ossification [MP:0008275]| abnormal osteoclast differentiation [MP:0008396]| decreased grip strength [MP:0010053]| abnormal thoracic cage shape [MP:0010099]| small thoracic cage [MP:0010103]| increased salivary gland tumor incidence [MP:0010318]| 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:0011098]| embryonic lethality during organogenesis [MP:0011099]| complete penetrance [MP:0011100]| lethality throughout fetal growth and development [MP:0012110]| complete penetrance [MP:0013351]| preweaning lethality [MP:0014105]| complete penetrance [MP:0020040]| increased hair follicle number [MP:0020080]| abnormal Rathke's pouch development [MP:0020084]| abnormal chondrocyte differentiation [MP:0030005]

Affected Gene: Bmpr1a

Catalog Number: 030469-UNC

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: PMID:11857780

Alternate IDs: MMRRC_30469-UNC, MMRRC_030469, MMRRC_3469

Organism Name: STOCK *Bmpr1a*$^{tm2.1Bhr}$/Mmnc

Record Creation Time: 20230308T055119+0000

Record Last Update: 20250225T012508+0000

Ratings and Alerts

No rating or validation information has been found for STOCK *Bmpr1a*$^{tm2.1Bhr}$/Mmnc.

No alerts have been found for STOCK *Bmpr1a*$^{tm2.1Bhr}$/Mmnc.

Data and Source Information

Source: Integrated Animals

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

Usage and Citation Metrics

We found 2 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Ihle CL, et al. (2020) Loss of Myeloid BMPR1a Alters Differentiation and Reduces Mouse Prostate Cancer Growth. Frontiers in oncology, 10, 357.

Kim S, et al. (2019) Epigenetic regulation of mammalian Hedgehog signaling to the stroma determines the molecular subtype of bladder cancer. eLife, 8.