

Resource Summary Report

Generated by [RRID](#) on Aug 3, 2026

B6.129S6-Ptpn11^{tm6Bgn}/Mmjax

RRID:MMRRC_032103-JAX

Type: Organism

Proper Citation

RRID:MMRRC_032103-JAX

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=32103

Proper Citation: RRID:MMRRC_032103-JAX

Description: Mus musculus with name B6.129S6-Ptpn11^{tm6Bgn}/Mmjax from MMRRC.

Species: Mus musculus

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

Phenotype: abnormal bone marrow cell number [MP:0000172]| increased leukocyte cell number [MP:0000218]| increased monocyte cell number [MP:0000220]| extramedullary hematopoiesis [MP:0000240]| abnormal erythropoiesis [MP:0000245]| abnormal heart morphology [MP:0000266]| double outlet right ventricle [MP:0000284]| increased granulocyte number [MP:0000322]| decreased bone marrow cell number [MP:0000333]| enlarged liver [MP:0000599]| enlarged spleen [MP:0000691]| decreased exploration in new environment [MP:0001417]| abnormal spatial learning [MP:0001463]| anemia [MP:0001577]| premature death [MP:0002083]| abnormal definitive hematopoiesis [MP:0002123]| thin myocardium [MP:0002652]| increased atrioventricular cushion size [MP:0003808]| heart valve hyperplasia [MP:0003958]| decreased hematopoietic stem cell number [MP:0004810]| abnormal leukopoiesis [MP:0005460]| intermingled spleen red and white pulp [MP:0008475]| decreased cranium height [MP:0008525]| embryonic lethality [MP:0008762]| decreased common myeloid progenitor cell number [MP:0008813]| abnormal splenic cell ratio [MP:0008826]| abnormal liver sinusoid morphology [MP:0008989]| impaired cued conditioning behavior [MP:0009456]| abnormal hippocampus neuron morphology [MP:0009939]| ventricular septal defect [MP:0010402]| atrial septal defect [MP:0010403]| preweaning lethality [MP:0011100]| complete penetrance [MP:0013697]| decreased granulocyte monocyte progenitor cell number [MP:0030166]

Affected Gene: Ptpn11

Catalog Number: 032103-JAX

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:19179468](#)

Alternate IDs: MMRRC_32103-JAX, MMRRC_032103, MMRRC_3213

Organism Name: B6.129S6-*Ptpn11*^{tm6Bgn}/Mmjax

Record Creation Time: 20230308T055126+0000

Record Last Update: 20260801T124239+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S6-*Ptpn11*^{tm6Bgn}/Mmjax.

No alerts have been found for B6.129S6-*Ptpn11*^{tm6Bgn}/Mmjax.

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 [RRID](#) .

Weiss EM, et al. (2024) Developmental effect of RASopathy mutations on neuronal network activity on a chip. *Frontiers in cellular neuroscience*, 18, 1388409.

Guhathakurta D, et al. (2024) Rasopathy-Associated Mutation Ptpn11D61Y has Age-Dependent Effect on Synaptic Vesicle Recycling. *Cellular and molecular neurobiology*, 44(1), 77.