

Resource Summary Report

Generated by [dkNET](#) on Sep 20, 2026

B6;129S4-Ptpn11^{tm1Bgn}/Mmjax

RRID:MMRRC_032104-JAX

Type: Organism

Proper Citation

RRID:MMRRC_032104-JAX

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=32104

Proper Citation: RRID:MMRRC_032104-JAX

Description: Mus musculus with name B6;129S4-Ptpn11^{tm1Bgn}/Mmjax from MMRRC.

Species: Mus musculus

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

Phenotype: increased leukocyte cell number [MP:0000218]| increased neutrophil cell number [MP:0000219]| abnormal heart morphology [MP:0000266]| abnormal heart development [MP:0000267]| double outlet right ventricle [MP:0000284]| increased cell proliferation [MP:0000351]| flattened snout [MP:0000447]| small liver [MP:0000601]| enlarged spleen [MP:0000691]| decreased body length [MP:0001258]| decreased body weight [MP:0001262]| hepatic necrosis [MP:0001654]| hemorrhage [MP:0001914]| hydrops fetalis [MP:0002192]| thin myocardium [MP:0002652]| decreased cardiomyocyte apoptosis [MP:0003223]| thin myocardium compact layer [MP:0004057]| increased lymphocyte cell number [MP:0005013]| pericardial effusion [MP:0005312]| small cranium [MP:0005352]| abnormal common myeloid progenitor cell morphology [MP:0006410]| abnormal cardiac epithelial to mesenchymal transition [MP:0008825]| myeloid hyperplasia [MP:0010373]| ventricular septal defect [MP:0010402]| atrial septal defect [MP:0010403]| atrioventricular septal defect [MP:0010412]| enlarged mitral valve [MP:0010618]| perinatal lethality [MP:0011090]| incomplete penetrance [MP:0011098]| embryonic lethality during organogenesis [MP:0030166]| complete penetrance [MP:0030189]

Affected Gene: Ptpn11

Catalog Number: 032104-JAX

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:15273746](#)

Alternate IDs: MMRRC_32104-JAX, MMRRC_032104, MMRRC_3214

Organism Name: B6;129S4-*Ptpn11*^{tm1Bgn}/Mmjax

Record Creation Time: 20230308T055126+0000

Record Last Update: 20260919T133838+0000

Ratings and Alerts

No rating or validation information has been found for B6;129S4-*Ptpn11*^{tm1Bgn}/Mmjax.

No alerts have been found for B6;129S4-*Ptpn11*^{tm1Bgn}/Mmjax.

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 [dkNET](#) .

Cho HJ, et al. (2025) SFX-01 is therapeutic against myeloproliferative disorders caused by activating mutations in Shp2. EMBO molecular medicine, 17(8), 2115.