

Resource Summary Report

Generated by [NIF](#) on Aug 19, 2026

B6.129S4-Sos1^{tm1.2Rak}/Mmjax

RRID:MMRRC_037588-JAX

Type: Organism

Proper Citation

RRID:MMRRC_037588-JAX

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=37588

Proper Citation: RRID:MMRRC_037588-JAX

Description: Mus musculus with name B6.129S4-Sos1^{tm1.2Rak}/Mmjax from MMRRC.

Species: Mus musculus

Notes: Research areas: Cancer, Cardiovascular, Developmental Biology, Hematology;
Mutation Type: Targeted Mutation ; Collection:

Phenotype: abnormal frontal bone morphology [MP:0000107]| increased leukocyte cell number [MP:0000218]| increased neutrophil cell number [MP:0000219]| extramedullary hematopoiesis [MP:0000240]| abnormal erythropoiesis [MP:0000245]| abnormal heart morphology [MP:0000266]| heart right ventricle hypertrophy [MP:0000276]| abnormal myocardial fiber morphology [MP:0000278]| abnormal craniofacial morphology [MP:0000428]| enlarged spleen [MP:0000691]| decreased body length [MP:0001258]| decreased body weight [MP:0001262]| decreased body size [MP:0001265]| ocular hypertelorism [MP:0001300]| abnormal cardiovascular system physiology [MP:0001544]| skin edema [MP:0001786]| hemorrhage [MP:0001914]| premature death [MP:0002083]| heart left ventricle hypertrophy [MP:0002625]| cardiac fibrosis [MP:0003141]| increased cardiomyocyte apoptosis [MP:0003222]| abnormal fetal cardiomyocyte proliferation [MP:0003567]| abnormal heart left ventricle morphology [MP:0003921]| enlarged myocardial fiber [MP:0004564]| myocardial fiber degeneration [MP:0004566]| pericardial effusion [MP:0005312]| cardiac interstitial fibrosis [MP:0005608]| aortic valve stenosis [MP:0006117]| abnormal common myeloid progenitor cell morphology [MP:0006410]| increased megakaryocyte cell number [MP:0008254]| increased spleen red pulp amount [MP:0008476]| decreased cranium height [MP:0008525]| ventricular septal defect [MP:0010402]| ostium secundum atrial septal defect [MP:0010405]| thick aortic valve cusps [MP:0010593]| thick interventricular septum [MP:0010724]| embryonic lethality during organogenesis [MP:0011108]| incomplete penetrance [MP:0011109]

Affected Gene: Sos1

Catalog Number: 037588-JAX

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:21041952](#)

Alternate IDs: MMRRC_37588-JAX, MMRRC_037588, MMRRC_37588

Organism Name: B6.129S4-*Sos1*^{tm1.2Rak}/Mmjax

Record Creation Time: 20230308T055151+0000

Record Last Update: 20260815T124856+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S4-*Sos1*^{tm1.2Rak}/Mmjax.

No alerts have been found for B6.129S4-*Sos1*^{tm1.2Rak}/Mmjax.

Data and Source Information

Source: [Integrated Animals](#)

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

Usage and Citation Metrics

We have not found any literature mentions for this resource.