

Resource Summary Report

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

B6.129S6-Stat5a/Stat5b^{tm2Mam}/Mmjax

RRID:MMRRC_032053-JAX

Type: Organism

Proper Citation

RRID:MMRRC_032053-JAX

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=32053

Proper Citation: RRID:MMRRC_032053-JAX

Description: Mus musculus with name B6.129S6-Stat5a/Stat5b^{tm2Mam}/Mmjax from MMRRC.

Species: Mus musculus

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

Phenotype: decreased hematocrit [MP:0000208]| decreased leukocyte cell number [MP:0000221]| decreased neutrophil cell number [MP:0000222]| decreased monocyte cell number [MP:0000223]| decreased cell proliferation [MP:0000352]| abnormal branching of the mammary ductal tree [MP:0000662]| enlarged spleen [MP:0000691]| decreased body length [MP:0001258]| obese [MP:0001261]| decreased body weight [MP:0001262]| polyphagia [MP:0001433]| increased circulating triglyceride level [MP:0001552]| increased circulating free fatty acid level [MP:0001554]| anemia [MP:0001577]| increased circulating insulin level [MP:0002079]| no abnormal phenotype detected [MP:0002169]| abnormal lymphopoiesis [MP:0002401]| abnormal neutrophil differentiation [MP:0002415]| abnormal proerythroblast morphology [MP:0002416]| abnormal neutrophil physiology [MP:0002463]| abnormal acute inflammation [MP:0002498]| reticulocytosis [MP:0002640]| anisocytosis [MP:0002642]| poikilocytosis [MP:0002643]| microcytosis [MP:0002813]| decreased hemoglobin content [MP:0002874]| decreased erythrocyte cell number [MP:0002875]| decreased insulin secretion [MP:0003059]| abnormal milk ejection [MP:0003838]| abnormal T cell subpopulation ratio [MP:0003944]| increased lean body mass [MP:0003960]| decreased lean body mass [MP:0003961]| decreased circulating insulin-like growth factor I level [MP:0004701]| decreased lymphocyte cell number [MP:0005016]| decreased oxygen consumption [MP:0005290]| impaired glucose tolerance [MP:0005293]| insulin resistance [MP:0005331]| abnormal fat pad morphology [MP:0005334]| increased percent body fat/body weight [MP:0005458]| abnormal leukopoiesis [MP:0005460]| increased circulating glucose level [MP:0005559]| decreased mean corpuscular

hemoglobin [MP:0005562]| increased circulating leptin level [MP:0005669]| increased apoptosis [MP:0006042]| abnormal mammary gland growth during lactation [MP:0006270]| abnormal CD4-positive T cell differentiation [MP:0008076]| decreased CD8-positive [MP:0008079]| alpha-beta T cell number [MP:0008388]| hypochromic microcytic anemia [MP:0008614]| increased circulating interleukin-17 level [MP:0008681]| increased interleukin-17 secretion [MP:0008807]| increased liver iron level [MP:0008810]| increased circulating iron level [MP:0008908]| increased total fat pad weight [MP:0008973]| decreased erythroid progenitor cell number [MP:0009254]| disorganized pancreatic islets [MP:0009506]| abnormal mammary gland alveolus morphology [MP:0010024]| increased total body fat amount [MP:0010067]| increased red blood cell distribution width [MP:0010172]| abnormal mammary gland epithelium physiology [MP:0010249]| lactation failure [MP:0011049]| impaired adaptive thermogenesis [MP:0014126]

Affected Gene: Stat5a

Catalog Number: 032053-JAX

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:15340066](https://pubmed.ncbi.nlm.nih.gov/15340066/)

Alternate IDs: MMRRC_32053-JAX, MMRRC_032053, MMRRC_3253

Organism Name: B6.129S6-Stat5a/Stat5b^{tm2Mam}/Mmjax

Record Creation Time: 20230308T055126+0000

Record Last Update: 20260919T133837+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S6-Stat5a/Stat5b^{tm2Mam}/Mmjax.

No alerts have been found for B6.129S6-Stat5a/Stat5b^{tm2Mam}/Mmjax.

Data and Source Information

Source: [Integrated Animals](#)

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

Usage and Citation Metrics

We found 3 mentions in open access literature.

Listed below are recent publications. The full list is available at [dkNET](#) .

Beltra JC, et al. (2023) Stat5 opposes the transcription factor Tox and rewires exhausted CD8+ T cells toward durable effector-like states during chronic antigen exposure. *Immunity*, 56(12), 2699.

Wiede F, et al. (2022) PTP1B Is an Intracellular Checkpoint that Limits T-cell and CAR T-cell Antitumor Immunity. *Cancer discovery*, 12(3), 752.

Porter SN, et al. (2016) Fetal and neonatal hematopoietic progenitors are functionally and transcriptionally resistant to Flt3-ITD mutations. *eLife*, 5.