

Resource Summary Report

Generated by [RRID](#) on Aug 5, 2026

[C.Cg-Igk-J^{tm2}Mwg](#) [Igh-J^{tm2}\(3H9-VDJ*\)Mwg](#) [Prkdc^{scid}](#)
[/Mmnc](#)

RRID:MMRRC_017238-UNC

Type: Organism

Proper Citation

RRID:MMRRC_017238-UNC

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=17238

Proper Citation: RRID:MMRRC_017238-UNC

Description: Mus musculus with name C.Cg-Igk-J^{tm2}Mwg Igh-J^{tm2}(3H9-VDJ*)Mwg Prkdc^{scid}/Mmnc from MMRRC.

Species: Mus musculus

Notes: Research areas: Immunology and Inflammation, Models for Human Disease, Research Tools; Mutation Type: Targeted Mutation ; Collection:

Phenotype: spleen hypoplasia [MP:0000694] increased anti-double stranded DNA antibody level [MP:0004762] decreased B cell number [MP:0005017] abnormal marginal zone B cell morphology [MP:0008180] increased marginal zone B cell number [MP:0008181] abnormal B cell receptor editing [MP:0008766] small ears [MP:0000018] increased neutrophil cell number [MP:0000219] increased monocyte cell number [MP:0000220] decreased leukocyte cell number [MP:0000221] absent pre-B cells [MP:0000238] increased granulocyte number [MP:0000322] decreased bone marrow cell number [MP:0000333] broad head [MP:0000346] short snout [MP:0000445] abnormal intestinal epithelium morphology [MP:0000488] small salivary gland [MP:0000618] abnormal immune system morphology [MP:0000685] small lymphoid organs [MP:0000687] spleen hypoplasia [MP:0000694] abnormal Peyer's patch morphology [MP:0000696] abnormal thymus morphology [MP:0000703] small thymus [MP:0000706] absent lymphocyte [MP:0000726] absent CD8-positive [MP:0000727] alpha-beta T cells [MP:0000807] abnormal hippocampus morphology [MP:0000849] abnormal cerebellum morphology [MP:0001153] small seminiferous tubules [MP:0001156] abnormal spermatogenesis [MP:0001262] decreased body weight [MP:0001265] decreased body size [MP:0001380] reduced male mating frequency [MP:0001385] pup cannibalization [MP:0001405] impaired coordination [MP:0001559] hyperglycemia [MP:0001661] extended life span [MP:0001764] abnormal homeostasis [MP:0001800] abnormal

humoral immune response [MP:0001802] arrested B cell differentiation [MP:0001805] decreased IgG level [MP:0001825] arrested T cell differentiation [MP:0001841] decreased level of surface class I molecules [MP:0001870] salivary gland inflammation [MP:0001873] stomach inflammation [MP:0001921] reduced fertility [MP:0001925] male infertility [MP:0001926] female infertility [MP:0002024] increased T cell derived lymphoma incidence [MP:0002052] decreased tumor incidence [MP:0002078] abnormal glucose homeostasis [MP:0002083] premature death [MP:0002145] abnormal T cell differentiation [MP:0002152] abnormal brain morphology [MP:0002217] small lymph nodes [MP:0002223] lymphoid hypoplasia [MP:0002339] abnormal lymph node morphology [MP:0002344] abnormal lymph node B cell domain morphology [MP:0002357] abnormal spleen white pulp morphology [MP:0002367] abnormal thymus lobule morphology [MP:0002396] abnormal hematopoietic system morphology/development [MP:0002406] increased susceptibility to infection [MP:0002408] abnormal double-positive T cell morphology [MP:0002411] decreased susceptibility to bacterial infection [MP:0002432] abnormal CD4-positive [MP:0002441] alpha beta T cell morphology [MP:0002460] abnormal granulocyte morphology [MP:0002471] decreased immunoglobulin level [MP:0002473] abnormal complement pathway [MP:0002590] impaired complement classical pathway [MP:0002591] increased mean corpuscular volume [MP:0002687] decreased mean corpuscular volume [MP:0002722] oligozoospermia [MP:0002727] abnormal immune system organ morphology [MP:0002773] decreased circulating insulin level [MP:0002780] decreased circulating luteinizing hormone level [MP:0002782] decreased circulating testosterone level [MP:0002790] abnormal testes secretion [MP:0002804] decreased circulating follicle stimulating hormone level [MP:0002831] abnormal motor learning [MP:0002841] absent Peyer's patches [MP:0002875] impaired skeletal muscle contractility [MP:0002879] decreased erythrocyte cell number [MP:0003339] increased cellular sensitivity to X-ray irradiation [MP:0003402] decreased pancreatic beta cell number [MP:0003642] decreased liver weight [MP:0003790] absent seminal vesicle [MP:0003918] absent CD4-positive [MP:0004077] alpha beta T cells [MP:0004097] decreased kidney weight [MP:0004503] abnormal striatum morphology [MP:0004703] abnormal cerebellar cortex morphology [MP:0004751] decreased incidence of tumors by ionizing radiation induction [MP:0004803] abnormal vertebral column morphology [MP:0004804] increased length of allograft survival [MP:0004816] increased susceptibility to autoimmune diabetes [MP:0004953] decreased susceptibility to autoimmune diabetes [MP:0005010] abnormal class switch recombination [MP:0005011] decreased spleen weight [MP:0005016] abnormal CD8-positive [MP:0005017] alpha beta T cell morphology [MP:0005018] increased eosinophil cell number [MP:0005042] decreased lymphocyte cell number [MP:0005065] decreased B cell number [MP:0005070] decreased T cell number [MP:0005093] abnormal level of surface class II molecules [MP:0005095] abnormal neutrophil morphology [MP:0005215] impaired natural killer cell mediated cytotoxicity [MP:0005270] decreased B cell proliferation [MP:0005277] decreased T cell proliferation [MP:0005416] abnormal pancreatic islet morphology [MP:0005425] abnormal zygomatic bone morphology [MP:0005559] abnormal brainstem morphology [MP:0005630] abnormal circulating protein level [MP:0005671] increased macrophage cell number [MP:0005673] increased circulating glucose level [MP:0006198] increased lung weight [MP:0006380] abnormal response to transplant [MP:0008044] decreased susceptibility to graft versus host disease [MP:0008045] enophthalmos [MP:0008070] abnormal spermatid morphology [MP:0008071] increased NK cell number [MP:0008075] decreased NK cell number [MP:0008079] absent T cells [MP:0008081] absent B cells [MP:0008101] decreased CD4-positive [MP:0008135] alpha beta T cell number

[MP:0008195] decreased CD8-positive [MP:0008209] alpha-beta T cell number [MP:0008211] abnormal single-positive T cell number [MP:0008215] lymph node hypoplasia [MP:0008470] small Peyer's patches [MP:0008807] abnormal professional antigen presenting cell morphology [MP:0008826] decreased pre-B cell number [MP:0008838] decreased mature B cell number [MP:0009305] decreased immature B cell number [MP:0009332] abnormal spleen B cell follicle morphology [MP:0009401] increased liver iron level [MP:0009404] abnormal splenic cell ratio [MP:0009412] decreased transforming growth factor level [MP:0009419] decreased retroperitoneal fat pad weight [MP:0009543] abnormal splenocyte morphology [MP:0009697] increased skeletal muscle fiber diameter [MP:0009856] centrally nucleated skeletal muscle fibers [MP:0010179] skeletal muscle fiber degeneration [MP:0010250] skeletal muscle fibrosis [MP:0010766] abnormal thymus corticomedullary boundary morphology [MP:0011473] abnormal copulation [MP:0012106] failure of ejaculation [MP:0014127] rough coat [MP:0014130]

Affected Gene: |Igk-J|Prkdc

Catalog Number: 017238-UNC

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:12461083](#), [PMID:16393973](#), [PMID:17296939](#), [PMID:18424731](#)

Alternate IDs: MMRRC_17238-UNC, MMRRC_017238, MMRRC_17238

Organism Name: C.Cg-Igk-J^{tm2Mwg} Igh-J^{tm2(3H9-VDJ*)Mwg} Prkdc^{scid}/Mmnc

Record Creation Time: 20230308T054947+0000

Record Last Update: 20260801T123758+0000

Ratings and Alerts

No rating or validation information has been found for C.Cg-Igk-J^{tm2Mwg} Igh-J^{tm2(3H9-VDJ*)Mwg} Prkdc^{scid}/Mmnc.

No alerts have been found for C.Cg-Igk-J^{tm2Mwg} Igh-J^{tm2(3H9-VDJ*)Mwg} Prkdc^{scid}/Mmnc.

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.