

Resource Summary Report

Generated by [NIF](#) on Sep 1, 2026

CB17.Cg-Igh-J^{tm1(3H9-VDJ)}Mwg Prkdc^{scid}/Mmnc

RRID:MMRRC_017240-UNC

Type: Organism

Proper Citation

RRID:MMRRC_017240-UNC

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=17240

Proper Citation: RRID:MMRRC_017240-UNC

Description: Mus musculus with name CB17.Cg-Igh-J^{tm1(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: abnormal immature B cell morphology [MP:0005022]| 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: Prkdc

Catalog Number: 017240-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_17240-UNC, MMRRC_017240, MMRRC_1724

Organism Name: CB17.Cg-Igh-J^{tm1(3H9-VDJ)}Mwg Prkdc^{scid}/Mmnc

Record Creation Time: 20230308T054947+0000

Record Last Update: 20260829T122408+0000

Ratings and Alerts

No rating or validation information has been found for CB17.Cg-Igh-J^{tm1(3H9-VDJ)}Mwg Prkdc^{scid}/Mmnc.

No alerts have been found for CB17.Cg-Igh-J^{tm1(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.