

Resource Summary Report

Generated by [NIF](#) on Aug 13, 2026

B6J.Cg-*Ikbkg*^{tm1Dln} *Tnf*^{tm1Gkl}/Mmucd

RRID:MMRRC_041405-UCD

Type: Organism

Proper Citation

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Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=41405

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Description: Mus musculus with name B6J.Cg-*Ikbkg*^{tm1Dln} *Tnf*^{tm1Gkl}/Mmucd from MMRRC.

Species: Mus musculus

Notes: Research areas: Apoptosis, Cell Biology, Dermatology, Developmental Biology, Hematology, Immunology and Inflammation, Models for Human Disease, Neurobiology; Mutation Type: Targeted Mutation ; Collection:

Phenotype: increased bone mineral density [MP:0000062]| abnormal trabecular bone morphology [MP:0000130]| increased leukocyte cell number [MP:0000218]| increased neutrophil cell number [MP:0000219]| abnormal Peyer's patch morphology [MP:0000696]| abnormal spermatogenesis [MP:0001156]| decreased body weight [MP:0001262]| abnormal vasodilation [MP:0001613]| abnormal inflammatory response [MP:0001845]| decreased inflammatory response [MP:0001876]| abnormal glucose homeostasis [MP:0002078]| premature death [MP:0002083]| abnormal lipid homeostasis [MP:0002118]| abnormal lymph node B cell domain morphology [MP:0002344]| abnormal spleen marginal sinus morphology [MP:0002363]| abnormal Peyer's patch follicle morphology [MP:0002389]| abnormal Peyer's patch germinal center morphology [MP:0002391]| abnormal Peyer's patch T cell area morphology [MP:0002392]| decreased susceptibility to bacterial infection [MP:0002411]| increased susceptibility to bacterial infection [MP:0002412]| abnormal macrophage physiology [MP:0002451]| decreased circulating triglyceride level [MP:0002644]| oligozoospermia [MP:0002687]| decreased circulating insulin level [MP:0002727]| dilated heart left ventricle [MP:0002753]| abnormal testes secretion [MP:0002782]| colitis [MP:0002816]| abnormal cytokine secretion [MP:0003009]| rheumatoid arthritis [MP:0003561]| oxidative stress [MP:0003674]| abnormal lymphocyte physiology [MP:0003945]| abnormal spermiation [MP:0004182]| decreased incidence of tumors by chemical induction [MP:0004502]| decreased susceptibility to experimental

autoimmune encephalomyelitis [MP:0004800] decreased testis weight [MP:0004852] abnormal testis physiology [MP:0004884] increased osteoblast cell number [MP:0004988] increased lymphocyte cell number [MP:0005013] increased susceptibility to parasitic infection [MP:0005027] cachexia [MP:0005150] abnormal mesenteric lymph node morphology [MP:0005232] abnormal fat pad morphology [MP:0005334] decreased susceptibility to autoimmune disorder [MP:0005351] decreased percent body fat/body weight [MP:0005459] decreased circulating glucose level [MP:0005560] decreased ventricle muscle contractility [MP:0005598] decreased susceptibility to type IV hypersensitivity reaction [MP:0005616] decreased circulating leptin level [MP:0005668] decreased Peyer's patch number [MP:0008133] small Peyer's patches [MP:0008135] absent follicular dendritic cells [MP:0008201] abnormal metallophilic macrophage morphology [MP:0008241] abnormal osteoclast differentiation [MP:0008396] abnormal spleen primary B follicle morphology [MP:0008471] abnormal spleen follicular dendritic cell network [MP:0008473] absent spleen germinal center [MP:0008474] increased circulating tumor necrosis factor level [MP:0008553] decreased circulating tumor necrosis factor level [MP:0008554] increased tumor necrosis factor secretion [MP:0008560] abnormal chemokine secretion [MP:0008722] decreased susceptibility to endotoxin shock [MP:0008734] increased susceptibility to endotoxin shock [MP:0008735] cecum inflammation [MP:0009481] decreased keratinocyte proliferation [MP:0009584] prenatal lethality [MP:0011101] incomplete penetrance [MP:0013486] decreased Paneth cell number [MP:0030466]

Affected Gene: *Tnf*|*Ikbkg*

Catalog Number: 041405-UCD

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:8879212](#), [PMID:11179023](#)

Alternate IDs: MMRRC_41405-UCD, MMRRC_041405, MMRRC_4145

Organism Name: B6J.Cg-*Ikbkg*^{tm1Dln} *Tnf*^{tm1Gkl}/Mmucd

Record Creation Time: 20230308T055218+0000

Record Last Update: 20260808T124235+0000

Ratings and Alerts

No rating or validation information has been found for B6J.Cg-*Ikbkg*^{tm1Dln} *Tnf*^{tm1Gkl}/Mmucd.

Warning: Warning. Researchers have noted that this genotype does not sufficiently model human cherubism.

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.