Resource Summary Report

Generated by dkNET on Sep 7, 2026

MRL.Cg-*Aicda*^{tm1Hon} *Fas*^{lpr}/DiazMmnc

RRID:MMRRC_043606-UNC
Type: Organism

Proper Citation

RRID:MMRRC_043606-UNC

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=43606

Proper Citation: RRID:MMRRC_043606-UNC

Description: Mus musculus with name MRL.Cg-*Aicda*^{tm1Hon} *Fas*^{lpr}/DiazMmnc from MMRRC.

Species: Mus musculus

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

Phenotype: decreased IgG level [MP:0001805]| decreased IgA level [MP:0001807]| abnormal B cell physiology [MP:0002459]| increased IgM level [MP:0002494]| spontaneous chromosome breakage [MP:0004029]| induced chromosome breakage [MP:0004030]| abnormal somatic hypermutation frequency [MP:0004815]| abnormal class switch recombination [MP:0004816]| increased germinal center B cell number [MP:0008177]| decreased IgG1 level [MP:0008495]| decreased IgG2a level [MP:0008496]| decreased IgG2b level [MP:0008497]| decreased IgG3 level [MP:0008498]| abnormal immunoglobulin heavy chain V(D)J recombination [MP:0008760]| chromosomal instability [MP:0008866]| increased susceptibility to bacterial infection induced morbidity/mortality [MP:0009788]| abnormal stria vascularis morphology [MP:0000048]| decreased bone mineral density [MP:0000063]| abnormal trabecular bone morphology [MP:0000130]| abnormal vertebrae morphology [MP:0000137]| increased leukocyte cell number [MP:0000218]| increased neutrophil cell number [MP:0000219]| abnormal erythropoiesis [MP:0000245]| abnormal heart morphology [MP:0000266]| abnormal aorta morphology [MP:0000272]| abnormal mast cell morphology [MP:0000359]| abnormal hair follicle morphology [MP:0000377]| abnormal hair follicle orientation [MP:0000383]| alopecia [MP:0000414]| sparse hair [MP:0000416]| ruffled hair [MP:0000420]| cortical renal glomerulopathies [MP:0000523]| abnormal femur morphology [MP:0000559]| abnormal hepatocyte morphology [MP:0000607]| abnormal liver physiology [MP:0000609]| abnormal thyroid gland morphology [MP:0000681]| abnormal immune system morphology

[MP:0000685]| enlarged spleen [MP:0000691]| spleen hyperplasia [MP:0000693]| abnormal lymph node size [MP:0000701]| enlarged lymph nodes [MP:0000702]| enlarged thymus [MP:0000709]| abnormal lymphocyte cell number [MP:0000717]| abnormal cerebellum morphology [MP:0000849]| small cerebellum [MP:0000852]| abnormal cerebellar foliation [MP:0000857]| decreased Purkinje cell number [MP:0000880]| thin cerebellar molecular layer [MP:0000890]| demyelination [MP:0000921]| abnormal stellate ganglion morphology [MP:0001017]| arrest of spermatogenesis [MP:0001155]| abnormal skin condition [MP:0001191]| dermatitis [MP:0001194]| skin lesions [MP:0001212]| thick epidermis [MP:0001219]| epidermal necrosis [MP:0001220]| increased body weight [MP:0001260]| decreased body size [MP:0001265]| absent vibrissae [MP:0001284]| abnormal lacrimal gland morphology [MP:0001346]| ataxia [MP:0001393]| impaired coordination [MP:0001405]| abnormal spatial learning [MP:0001463]| abnormal cardiovascular system physiology [MP:0001544]| focal hepatic necrosis [MP:0001656]| extended life span [MP:0001661]| abnormal immune system physiology [MP:0001790]| abnormal humoral immune response [MP:0001800]| arrested B cell differentiation [MP:0001802]| decreased IgG level [MP:0001805]| decreased IgM level [MP:0001806]| decreased IgA level [MP:0001807]| increased activated T cell number [MP:0001829]| decreased activated T cell number [MP:0001830]| autoimmune response [MP:0001844]| brain inflammation [MP:0001847]| conjunctivitis [MP:0001852]| kidney inflammation [MP:0001859]| liver inflammation [MP:0001860]| lung inflammation [MP:0001861]| vascular inflammation [MP:0001863]| vasculitis [MP:0001864]| salivary gland inflammation [MP:0001870]| male infertility [MP:0001925]| female infertility [MP:0001926]| increased tumor incidence [MP:0002020]| premature death [MP:0002083]| abnormal kidney morphology [MP:0002135]| abnormal kidney physiology [MP:0002136]| abnormal gland morphology [MP:0002163]| decreased brain weight [MP:0002175]| abnormal outer ear morphology [MP:0002177]| small lymph nodes [MP:0002217]| abnormal spleen size [MP:0002224]| abnormal airway responsiveness [MP:0002334]| abnormal lymph node morphology [MP:0002339]| abnormal thymus medulla morphology [MP:0002375]| increased susceptibility to bacterial infection [MP:0002412]| increased susceptibility to viral infection [MP:0002418]| abnormal CD4-positive [MP:0002432]| alpha beta T cell morphology [MP:0002435]| abnormal effector T cell morphology [MP:0002444]| abnormal T cell physiology [MP:0002458]| abnormal B cell number [MP:0002460]| decreased immunoglobulin level [MP:0002461]| increased immunoglobulin level [MP:0002490]| abnormal immunoglobulin level [MP:0002492]| decreased IgE level [MP:0002493]| increased IgG level [MP:0002494]| increased IgM level [MP:0002495]| increased IgA level [MP:0002497]| increased IgE level [MP:0002533]| abnormal type III hypersensitivity reaction [MP:0002687]| oligozoospermia [MP:0002722]| abnormal immune system organ morphology [MP:0002743]| glomerulonephritis [MP:0002828]| abnormal renal glomerular capsule morphology [MP:0002871]| albuminuria [MP:0002936]| joint swelling [MP:0002962]| increased urine protein level [MP:0002965]| increased circulating serum albumin level [MP:0003009]| abnormal cytokine secretion [MP:0003204]| decreased neuron apoptosis [MP:0003504]| thyroid inflammation [MP:0003606]| kidney failure [MP:0003628]| abnormal leukocyte adhesion [MP:0003644]| thymus atrophy [MP:0003670]| dilated renal glomerular capsule [MP:0003725]| increased autoantibody level [MP:0003726]| decreased autoantibody level [MP:0003793]| abnormal submandibular gland morphology [MP:0003944]| abnormal T cell subpopulation ratio [MP:0003946]| renal necrosis [MP:0004031]| insulitis [MP:0004111]| abnormal coronary artery morphology [MP:0004153]| increased renal tubule apoptosis [MP:0004367]| abnormal strial intermediate cell morphology [MP:0004368]| abnormal stria vascularis vasculature morphology [MP:0004481]| abnormal conjunctival epithelium morphology

[MP:0004696]| abnormal thyroid follicle morphology [MP:0004762]| increased anti-double stranded DNA antibody level [MP:0004771]| increased anti-single stranded DNA antibody level [MP:0004794]| increased anti-nuclear antigen antibody level [MP:0004795]| decreased anti-nuclear antigen antibody level [MP:0004796]| increased anti-histone antibody level [MP:0004797]| increased anti-erythrocyte antigen antibody level [MP:0004798]| decreased anti-double stranded DNA antibody level [MP:0004801]| increased susceptibility to systemic lupus erythematosus [MP:0004802]| decreased susceptibility to systemic lupus erythematosus [MP:0004803]| increased susceptibility to autoimmune diabetes [MP:0004804]| decreased susceptibility to autoimmune diabetes [MP:0004829]| increased anti-chromatin antibody level [MP:0004939]| abnormal B cell morphology [MP:0004952]| increased spleen weight [MP:0004953]| decreased spleen weight [MP:0004955]| increased thymus weight [MP:0004977]| increased B-1 B cell number [MP:0005012]| decreased eosinophil cell number [MP:0005014]| increased B cell number [MP:0005015]| increased T cell number [MP:0005017]| decreased B cell number [MP:0005078]| abnormal cytotoxic T cell physiology [MP:0005089]| decreased double-negative T cell number [MP:0005090]| increased double-negative T cell number [MP:0005094]| abnormal T cell proliferation [MP:0005178]| increased circulating cholesterol level [MP:0005179]| decreased circulating cholesterol level [MP:0005264]| glomerulosclerosis [MP:0005265]| abnormal blood urea nitrogen level [MP:0005325]| abnormal renal glomerulus morphology [MP:0005329]| abnormal myocardium layer morphology [MP:0005338]| atherosclerotic lesions [MP:0005339]| increased susceptibility to atherosclerosis [MP:0005350]| increased susceptibility to autoimmune disorder [MP:0005351]| decreased susceptibility to autoimmune disorder [MP:0005416]| abnormal circulating protein level [MP:0005425]| increased macrophage cell number [MP:0005466]| abnormal T-helper 2 physiology [MP:0005554]| decreased circulating creatinine level [MP:0005565]| increased blood urea nitrogen level [MP:0005566]| decreased blood urea nitrogen level [MP:0005568]| increased circulating total protein level [MP:0005584]| abnormal enzyme/coenzyme activity [MP:0005614]| decreased susceptibility to type III hypersensitivity reaction [MP:0005615]| increased susceptibility to type III hypersensitivity reaction [MP:0005621]| abnormal cell physiology [MP:0006042]| increased apoptosis [MP:0006043]| decreased apoptosis [MP:0006055]| abnormal vascular endothelial cell morphology [MP:0006082]| CNS inflammation [MP:0006099]| thin cerebellar granule layer [MP:0006315]| abnormal urine protein level [MP:0006387]| abnormal T cell number [MP:0008037]| abnormal T cell morphology [MP:0008049]| increased memory T cell number [MP:0008056]| abnormal retinal ganglion cell morphology [MP:0008074]| increased CD4-positive [MP:0008075]| alpha beta T cell number [MP:0008078]| decreased CD4-positive [MP:0008079]| alpha beta T cell number [MP:0008097]| increased CD8-positive [MP:0008098]| alpha-beta T cell number [MP:0008102]| decreased CD8-positive [MP:0008126]| alpha-beta T cell number [MP:0008136]| increased plasma cell number [MP:0008139]| decreased plasma cell number [MP:0008140]| lymph node hyperplasia [MP:0008173]| increased dendritic cell number [MP:0008180]| enlarged Peyer's patches [MP:0008181]| fused podocyte foot processes [MP:0008182]| podocyte foot process effacement [MP:0008189]| increased follicular B cell number [MP:0008190]| abnormal marginal zone B cell morphology [MP:0008206]| increased marginal zone B cell number [MP:0008211]| decreased marginal zone B cell number [MP:0008214]| increased transitional stage B cell number [MP:0008215]| decreased transitional stage B cell number [MP:0008217]| increased B-2 B cell number [MP:0008246]| decreased mature B cell number [MP:0008346]| increased immature B cell number [MP:0008350]| decreased immature B cell number [MP:0008477]| abnormal B cell activation [MP:0008478]| abnormal leukocyte morphology [MP:0008481]| increased

gamma-delta T cell number [MP:0008482]| increased gamma-delta intraepithelial T cell number [MP:0008495]| decreased spleen red pulp amount [MP:0008496]| increased spleen white pulp amount [MP:0008497]| increased spleen germinal center number [MP:0008498]| decreased spleen germinal center number [MP:0008499]| decreased IgG1 level [MP:0008500]| decreased IgG2a level [MP:0008501]| decreased IgG2b level [MP:0008502]| decreased IgG3 level [MP:0008542]| increased IgG1 level [MP:0008567]| increased IgG2a level [MP:0008573]| increased IgG2b level [MP:0008578]| increased IgG3 level [MP:0008602]| enlarged cervical lymph nodes [MP:0008626]| decreased interferon-gamma secretion [MP:0008688]| increased circulating interferon-alpha level [MP:0008699]| decreased circulating interferon-gamma level [MP:0008713]| increased circulating interleukin-4 level [MP:0008721]| increased circulating interleukin-5 level [MP:0008722]| decreased interleukin-2 secretion [MP:0008750]| increased interleukin-4 secretion [MP:0008751]| abnormal cytokine level [MP:0008752]| abnormal chemokine level [MP:0008766]| abnormal chemokine secretion [MP:0008769]| abnormal interferon level [MP:0008783]| abnormal interleukin level [MP:0008826]| abnormal tumor necrosis factor level [MP:0008828]| abnormal B cell receptor editing [MP:0008879]| abnormal plasmacytoid dendritic cell physiology [MP:0008880]| decreased B cell apoptosis [MP:0008891]| abnormal splenic cell ratio [MP:0008978]| abnormal lymph node cell ratio [MP:0009338]| submandibular gland inflammation [MP:0009346]| lacrimal gland inflammation [MP:0009642]| decreased hepatocyte apoptosis [MP:0009643]| abnormal vagina weight [MP:0009763]| increased splenocyte number [MP:0010065]| decreased trabecular bone thickness [MP:0010138]| abnormal blood homeostasis [MP:0010760]| abnormal urine homeostasis [MP:0010766]| increased sensitivity to induced morbidity/mortality [MP:0010869]| decreased circulating creatine level [MP:0010879]| arteritis [MP:0010933]| abnormal macrophage chemotaxis [MP:0011081]| abnormal NK cell physiology [MP:0011294]| decreased bone trabecula number [MP:0011320]| decreased trabecular bone volume [MP:0011346]| decreased trabecular bone connectivity density [MP:0011348]| decreased macrophage apoptosis [MP:0011353]| renal glomerulus hypertrophy [MP:0011368]| abnormal glomerular capillary morphology [MP:0011369]| renal tubule atrophy [MP:0011377]| abnormal renal glomerulus basement membrane morphology [MP:0011402]| expanded mesangial matrix [MP:0011409]| increased kidney apoptosis [MP:0011427]| increased renal glomerulus apoptosis [MP:0011440]| renal glomerulus fibrosis [MP:0011445]| renal cast [MP:0011453]| increased renal glomerulus basement membrane thickness [MP:0011483]| mesangial cell hyperplasia [MP:0011506]| increased kidney cell proliferation [MP:0011567]| abnormal renal protein reabsorption [MP:0011742]| abnormal glomerular capillary endothelium morphology [MP:0011967]| renal glomerular synechia [MP:0013452]| glomerular crescent [MP:0013455]| increased renal glomerulus lobularity [MP:0013585]| decreased urine nitrite level [MP:0020332]| increased or absent threshold for auditory brainstem response [MP:0020518]| increased lacrimal gland apoptosis [MP:0020519]

Affected Gene: Aicda

Catalog Number: 043606-UNC

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Alternate IDs: MMRRC_43606-UNC, MMRRC_043606, MMRRC_4366

Organism Name: MRL.Cg-*Aicda*^{tm1Hon} *Fas*^{lpr}/DiazMmnc

Record Creation Time: 20230308T055234+0000

Record Last Update: 20260905T111053+0000

Ratings and Alerts

No rating or validation information has been found for MRL.Cg-*Aicda*^{tm1Hon} *Fas*^{lpr} /DiazMmnc.

Warning: Warning. Researchers have noted that this genotype does not sufficiently model human type 1 diabetes mellitus.

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.