

Resource Summary Report

Generated by [NIF](#) on Aug 3, 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]] insulinitis [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: 20260801T124600+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.