

Resource Summary Report

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MRL.Cg-Igh-8^{tm1Schr} Fas^{lpr}/Mmmh

RRID:MMRRC_015868-MU

Type: Organism

Proper Citation

RRID:MMRRC_015868-MU

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=15868

Proper Citation: RRID:MMRRC_015868-MU

Description: Mus musculus with name MRL.Cg-Igh-8^{tm1Schr} Fas^{lpr}/Mmmh from MMRRC.

Species: Mus musculus

Notes: Research areas: Apoptosis, Cancer, Cardiovascular, Dermatology, Hematology, Immunology and Inflammation, Models for Human Disease; Mutation Type: Targeted Mutation ; Collection:

Phenotype: increased susceptibility to bacterial infection [MP:0002412] increased IgG level [MP:0002493] increased IgM level [MP:0002494] 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: |Igh-8||Fas

Catalog Number: 015868-MU

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Alternate IDs: MMRRC_15868-MU, MMRRC_015868, MMRRC_15868

Organism Name: MRL.Cg-Igh-8^{tm1Schr} Fas^{lpr}/Mmmh

Record Creation Time: 20230308T054938+0000

Record Last Update: 20260808T123549+0000

Ratings and Alerts

No rating or validation information has been found for MRL.Cg-*Igh-g^{tm1Schr} Fas^{lpr}*/Mmmh.

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.