

Resource Summary Report

Generated by [NIF](#) on Aug 3, 2026

B6.129-*Tcrb*^{tm1Mom} *Ifng*^{tm1Ts}/Mmnc

RRID:MMRRC_000337-UNC

Type: Organism

Proper Citation

RRID:MMRRC_000337-UNC

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=337

Proper Citation: RRID:MMRRC_000337-UNC

Description: Mus musculus with name B6.129-*Tcrb*^{tm1Mom} *Ifng*^{tm1Ts}/Mmnc from MMRRC.

Species: Mus musculus

Notes: Research areas: Cancer, Immunology and Inflammation; Mutation Type: Targeted Mutation ; Collection:

Phenotype: enlarged liver [MP:0000599] enlarged spleen [MP:0000691] spleen hypoplasia [MP:0000694] absent CD8-positive [MP:0000727] alpha-beta T cells [MP:0000938] motor neuron degeneration [MP:0001219] thick epidermis [MP:0001243] abnormal dermal layer morphology [MP:0001263] weight loss [MP:0001805] decreased IgG level [MP:0001807] decreased IgA level [MP:0001823] thymus hypoplasia [MP:0001825] arrested T cell differentiation [MP:0002023] increased B cell derived lymphoma incidence [MP:0002083] premature death [MP:0002132] abnormal respiratory system morphology [MP:0002133] abnormal respiratory system physiology [MP:0002144] abnormal B cell differentiation [MP:0002492] decreased IgE level [MP:0002494] increased IgM level [MP:0002495] increased IgA level [MP:0002816] colitis [MP:0003691] abnormal microglial cell physiology [MP:0003725] increased autoantibody level [MP:0003726] decreased autoantibody level [MP:0003790] absent CD4-positive [MP:0004762] alpha beta T cells [MP:0004796] increased anti-double stranded DNA antibody level [MP:0004829] increased anti-histone antibody level [MP:0004939] increased anti-chromatin antibody level [MP:0004947] abnormal B cell morphology [MP:0005014] skin inflammation [MP:0005015] increased B cell number [MP:0005016] increased T cell number [MP:0005017] decreased lymphocyte cell number [MP:0005018] decreased B cell number [MP:0005025] decreased T cell number [MP:0005092] abnormal response to infection [MP:0008075] decreased double-positive T cell number [MP:0008079] decreased CD4-positive [MP:0008098] alpha beta T cell

number [MP:0008173]] decreased CD8-positive [MP:0008181]] alpha-beta T cell number [MP:0008188]] decreased plasma cell number [MP:0008210]] increased follicular B cell number [MP:0008214]] increased marginal zone B cell number [MP:0008495]] abnormal transitional stage B cell morphology [MP:0009925]] increased mature B cell number [MP:0010229]] increased immature B cell number [MP:0010286]] decreased IgG1 level [MP:0011320]] increased transitional stage T2 B cell number [MP:0011427]] increased transitional stage T3 B cell number [MP:0020519]] increased leukocyte cell number [MP:0000218]] increased monocyte cell number [MP:0000220]] extramedullary hematopoiesis [MP:0000240]] increased granulocyte number [MP:0000322]] abnormal spleen morphology [MP:0000689]] enlarged spleen [MP:0000691]] abnormal lymph node size [MP:0000701]] enlarged lymph nodes [MP:0000702]] increased body weight [MP:0001260]] decreased body weight [MP:0001262]] increased metastatic potential [MP:0001272]] abnormal response to new environment [MP:0001413]] altered susceptibility to infection [MP:0001793]] abnormal humoral immune response [MP:0001800]] decreased IgG level [MP:0001805]] decreased IgM level [MP:0001806]] decreased IgA level [MP:0001807]] abnormal inflammatory response [MP:0001845]] increased inflammatory response [MP:0001846]] brain inflammation [MP:0001847]] kidney inflammation [MP:0001859]] liver inflammation [MP:0001860]] lung inflammation [MP:0001861]] stomach inflammation [MP:0001873]] decreased inflammatory response [MP:0001876]] abnormal lactation [MP:0001882]] mammary gland alveolar hyperplasia [MP:0001884]] decreased litter size [MP:0001935]] abnormal lung volume [MP:0001942]] increased airway responsiveness [MP:0001952]] emphysema [MP:0001958]] increased B cell derived lymphoma incidence [MP:0002023]] increased T cell derived lymphoma incidence [MP:0002024]] increased lung adenocarcinoma incidence [MP:0002027]] increased sarcoma incidence [MP:0002032]] increased carcinoma incidence [MP:0002038]] increased pituitary adenoma incidence [MP:0002041]] decreased tumor incidence [MP:0002052]] premature death [MP:0002083]] abnormal spleen size [MP:0002224]] abnormal pulmonary alveolus morphology [MP:0002270]] decreased airway responsiveness [MP:0002335]] abnormal lymph node cortex morphology [MP:0002343]] abnormal lymph node primary follicle morphology [MP:0002345]] abnormal lymph node secondary follicle morphology [MP:0002346]] abnormal spleen red pulp morphology [MP:0002356]] abnormal spleen white pulp morphology [MP:0002357]] abnormal dendritic cell physiology [MP:0002376]] increased susceptibility to bacterial infection [MP:0002412]] increased susceptibility to viral infection [MP:0002418]] abnormal adaptive immunity [MP:0002420]] altered susceptibility to autoimmune disorder [MP:0002425]] abnormal macrophage physiology [MP:0002451]] abnormal dendritic cell antigen presentation [MP:0002455]] abnormal B cell physiology [MP:0002459]] decreased immunoglobulin level [MP:0002460]] increased immunoglobulin level [MP:0002461]] abnormal immunoglobulin level [MP:0002490]] decreased IgE level [MP:0002492]] increased IgE level [MP:0002497]] abnormal type IV hypersensitivity reaction [MP:0002534]] glomerulonephritis [MP:0002743]] decreased vertical activity [MP:0002757]] albuminuria [MP:0002871]] increased circulating alanine transaminase level [MP:0002941]] abnormal cytokine secretion [MP:0003009]] abnormal redox activity [MP:0003186]] small intestinal inflammation [MP:0003306]] abnormal tumor morphology [MP:0003448]] increased fear-related response [MP:0003459]] abnormal pancreatic beta cell physiology [MP:0003562]] increased ovarian carcinoma incidence [MP:0003579]] increased autoantibody level [MP:0003725]] decreased autoantibody level [MP:0003726]] abnormal nitric oxide homeostasis [MP:0003957]] abnormal lung vasculature morphology [MP:0004007]] abnormal maternal decidual layer morphology [MP:0004256]] decreased length of allograft survival [MP:0004752]] decreased anti-nuclear antigen antibody level

[MP:0004795]] decreased anti-double stranded DNA antibody level [MP:0004798]] increased susceptibility to experimental autoimmune encephalomyelitis [MP:0004799]] decreased susceptibility to systemic lupus erythematosus [MP:0004802]] decreased susceptibility to autoimmune diabetes [MP:0004804]] abnormal immune tolerance [MP:0005000]] increased eosinophil cell number [MP:0005011]] increased lymphocyte cell number [MP:0005013]] increased T cell number [MP:0005015]] abnormal response to infection [MP:0005025]] decreased susceptibility to parasitic infection [MP:0005026]] increased susceptibility to parasitic infection [MP:0005027]] abnormal MHC II cell surface expression on macrophages [MP:0005040]] impaired natural killer cell mediated cytotoxicity [MP:0005070]] abnormal cytotoxic T cell physiology [MP:0005078]] decreased double-negative T cell number [MP:0005089]] cachexia [MP:0005150]] abnormal response to injury [MP:0005164]] decreased susceptibility to injury [MP:0005166]] abnormal renal glomerulus morphology [MP:0005325]] atherosclerotic lesions [MP:0005338]] decreased susceptibility to autoimmune disorder [MP:0005351]] abnormal Langerhans cell physiology [MP:0005362]] increased susceptibility to fungal infection [MP:0005399]] abnormal skin physiology [MP:0005501]] corneal vascularization [MP:0005542]] decreased circulating creatinine level [MP:0005554]] increased blood urea nitrogen level [MP:0005565]] decreased susceptibility to type IV hypersensitivity reaction [MP:0005616]] increased susceptibility to type IV hypersensitivity reaction [MP:0005617]] abnormal response to transplant [MP:0005671]] abnormal mammary gland growth during pregnancy [MP:0006269]] increased NK T cell number [MP:0008039]] abnormal uterine NK cell morphology [MP:0008054]] increased CD4-positive [MP:0008074]] alpha beta T cell number [MP:0008078]] increased CD8-positive [MP:0008135]] alpha-beta T cell number [MP:0008466]] small Peyer's patches [MP:0008474]] enlarged mesenteric lymph nodes [MP:0008496]] absent spleen germinal center [MP:0008497]] decreased IgG2a level [MP:0008498]] decreased IgG2b level [MP:0008499]] decreased IgG3 level [MP:0008523]] increased IgG1 level [MP:0008567]] absent lymph node germinal center [MP:0008596]] decreased interferon-gamma secretion [MP:0008660]] increased circulating interleukin-6 level [MP:0008661]] increased interleukin-10 secretion [MP:0008663]] decreased interleukin-10 secretion [MP:0008681]] increased interleukin-12 secretion [MP:0008687]] increased interleukin-17 secretion [MP:0008699]] increased interleukin-2 secretion [MP:0008702]] increased interleukin-4 secretion [MP:0008713]] increased interleukin-5 secretion [MP:0008770]] abnormal cytokine level [MP:0008828]] decreased survivor rate [MP:0008874]] abnormal lymph node cell ratio [MP:0009099]] decreased physiological sensitivity to xenobiotic [MP:0009246]] abnormal uterine NK cell physiology [MP:0009336]] pale spleen [MP:0009394]] increased splenocyte proliferation [MP:0009419]] increased uterine NK cell number [MP:0009643]] skeletal muscle fibrosis [MP:0009763]] abnormal urine homeostasis [MP:0009766]] increased sensitivity to induced morbidity/mortality [MP:0009788]] increased sensitivity to xenobiotic induced morbidity/mortality [MP:0009791]] increased susceptibility to bacterial infection induced morbidity/mortality [MP:0009828]] increased susceptibility to viral infection induced morbidity/mortality [MP:0010210]] increased tumor latency [MP:0010308]] abnormal circulating cytokine level [MP:0010574]] decreased tumor latency [MP:0010639]] aorta dilation [MP:0010659]] altered tumor pathology [MP:0010740]] abdominal aorta aneurysm [MP:0010750]] abnormal dendritic cell chemotaxis [MP:0010751]] increased susceptibility to parasitic infection induced morbidity/mortality [MP:0010760]] decreased susceptibility to parasitic infection induced morbidity/mortality [MP:0010766]] abnormal macrophage chemotaxis [MP:0011086]] abnormal NK cell physiology [MP:0011320]] postnatal lethality [MP:0011427]] incomplete penetrance [MP:0012431]] abnormal glomerular capillary morphology [MP:0013239]] mesangial cell hyperplasia [MP:0013590]] increased

lymphoma incidence [MP:0030466]

Affected Gene: |Tcrb||Ifngr2

Catalog Number: 000337-UNC

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:1359428](#), [PMID:11705890](#)

Alternate IDs: MMRRC_337-UNC, MMRRC_000337, MMRRC_337

Organism Name: B6.129-*Tcrb*^{tm1Mom} *Ifng*^{tm1Ts}/Mmnc

Record Creation Time: 20230308T054752+0000

Record Last Update: 20260801T123213+0000

Ratings and Alerts

No rating or validation information has been found for B6.129-*Tcrb*^{tm1Mom} *Ifng*^{tm1Ts}/Mmnc.

Warning: Warning. Researchers have noted that this genotype does not sufficiently model human systemic lupus erythematosus.

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.