

Resource Summary Report

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JU.Cg-A^Y/a/Mmmh

RRID:MMRRC_000221-MU

Type: Organism

Proper Citation

RRID:MMRRC_000221-MU

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=221

Proper Citation: RRID:MMRRC_000221-MU

Description: Mus musculus with name JU.Cg-A^Y/a/Mmmh from MMRRC.

Species: Mus musculus

Notes: Research areas: Apoptosis, Cancer, Cardiovascular, Cell Biology, Developmental Biology, Diabetes, Endocrine Deficiency, Hematology, Immunology and Inflammation, Internal/Organ, Metabolism, Models for Human Disease, Neurobiology, Reproduction, Research Tools, Sensorineural; Mutation Type: Spontaneous Mutation ; Collection: Mammalian Pigmentation

Phenotype: increased brown adipose tissue amount [MP:0000005]| increased monocyte cell number [MP:0000220]| increased body length [MP:0001257]| increased body weight [MP:0001260]| obese [MP:0001261]| decreased body weight [MP:0001262]| hyperactivity [MP:0001399]| hypoactivity [MP:0001402]| abnormal eating behavior [MP:0001431]| polyphagia [MP:0001433]| increased circulating triglyceride level [MP:0001552]| hyperglycemia [MP:0001559]| increased urine glucose level [MP:0001759]| abnormal inflammatory response [MP:0001845]| decreased incidence of induced tumors [MP:0002053]| increased circulating insulin level [MP:0002079]| abnormal lipid homeostasis [MP:0002118]| abnormal kidney morphology [MP:0002135]| abnormal renal tubule morphology [MP:0002703]| dilated renal tubules [MP:0002705]| variable body spotting [MP:0002940]| increased liver weight [MP:0002981]| yellow coat color [MP:0003136]| decreased liver weight [MP:0003402]| maternal effect [MP:0003718]| abnormal hair follicle melanogenesis [MP:0004382]| decreased adiponectin level [MP:0004893]| increased circulating cholesterol level [MP:0005178]| abnormal pancreatic islet morphology [MP:0005215]| glomerulosclerosis [MP:0005264]| improved glucose tolerance [MP:0005292]| impaired glucose tolerance [MP:0005293]| abnormal renal glomerulus morphology [MP:0005325]| insulin resistance [MP:0005331]| atherosclerotic lesions [MP:0005338]| darkened coat color [MP:0005409]| abnormal food intake

[MP:0005449] increased susceptibility to weight gain [MP:0005455] increased percent body fat/body weight [MP:0005458] decreased circulating glucose level [MP:0005560] increased circulating leptin level [MP:0005669] embryonic lethality [MP:0008762] degranulated pancreatic beta cells [MP:0009255] increased gonadal fat pad weight [MP:0009285] increased inguinal fat pad weight [MP:0009292] increased retroperitoneal fat pad weight [MP:0009304] increased total body fat amount [MP:0010024] embryonic lethality at implantation [MP:0011093] complete penetrance [MP:0011339] abnormal glomerular mesangium morphology [MP:0011353] expanded mesangial matrix [MP:0011402] renal cast [MP:0011409] increased renal glomerulus basement membrane thickness [MP:0011939] increased food intake [MP:0030050]

Affected Gene: a

Catalog Number: 000221-MU

Background: Spontaneous Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:8146154](#), [PMID:11277491](#), [PMID:9450927](#)

Alternate IDs: MMRRC_221-MU, MMRRC_000221, MMRRC_221

Organism Name: JU.Cg-A^Y/a/Mmmh

Record Creation Time: 20230308T054751+0000

Record Last Update: 20260905T110213+0000

Ratings and Alerts

No rating or validation information has been found for JU.Cg-A^Y/a/Mmmh.

No alerts have been found for JU.Cg-A^Y/a/Mmmh.

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.