

# Resource Summary Report

Generated by [dkNET](#) on Sep 19, 2026

## JU.Cg-A<sup>Y</sup>/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](https://www.mmrrc.org/catalog/sds.php?mmrrc_id=221)

**Proper Citation:** RRID:MMRRC\_000221-MU

**Description:** Mus musculus with name JU.Cg-A<sup>Y</sup>/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<sup>Y</sup>/a/Mmmh

**Record Creation Time:** 20230308T054751+0000

**Record Last Update:** 20260919T132927+0000

---

## Ratings and Alerts

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

No alerts have been found for JU.Cg-A<sup>Y</sup>/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.