

Resource Summary Report

Generated by [NIF](#) on Sep 16, 2026

B6.Cg-A^y/J

RRID:IMSR_JAX:000021

Type: Organism

Proper Citation

RRID:IMSR_JAX:000021

Organism Information

URL: <https://www.jax.org/strain/000021>

Proper Citation: RRID:IMSR_JAX:000021

Description: Mus musculus with name B6.Cg-A^y/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: nonagouti; mutant strain|congenic strain: a

Affected Gene: nonagouti

Genomic Alteration: agouti yellow

Catalog Number: JAX:000021

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-A^y/J

Record Creation Time: 20250513T053614+0000

Record Last Update: 20260912T060359+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-A^y/J.

No alerts have been found for B6.Cg-A^y/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 10 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Chen Y, et al. (2019) Sustained NPY signaling enables AgRP neurons to drive feeding. *eLife*, 8.

Nakajima K, et al. (2016) Gs-coupled GPCR signalling in AgRP neurons triggers sustained increase in food intake. *Nature communications*, 7, 10268.

Paterson EK, et al. (2015) Tyrosinase Depletion Prevents the Maturation of Melanosomes in the Mouse Hair Follicle. *PloS one*, 10(11), e0143702.

Suto J, et al. (2015) Further characterization of diabetes mellitus and body weight loss in males of the congenic mouse strain DDD.Cg-A(y.). *The Journal of veterinary medical science*, 77(2), 203.

Song F, et al. (2014) RAGE regulates the metabolic and inflammatory response to high-fat feeding in mice. *Diabetes*, 63(6), 1948.

Suto J, et al. (2012) Quantitative trait locus mapping of genes associated with vacuolation in the adrenal X-zone of the DDD/Sgn inbred mouse. *BMC genetics*, 13, 95.

Guo K, et al. (2010) Chronic leucine supplementation improves glycemic control in etiologically distinct mouse models of obesity and diabetes mellitus. *Nutrition & metabolism*, 7, 57.

Obstfeld AE, et al. (2010) C-C chemokine receptor 2 (CCR2) regulates the hepatic recruitment of myeloid cells that promote obesity-induced hepatic steatosis. *Diabetes*, 59(4), 916.

Suto J, et al. (2009) The Ay allele at the agouti locus reduces the size and alters the shape of the mandible in mice. *Proceedings of the Japan Academy. Series B, Physical and biological sciences*, 85(7), 248.

Sinnayah P, et al. (2008) Feeding induced by cannabinoids is mediated independently of the melanocortin system. *PloS one*, 3(5), e2202.