

Resource Summary Report

Generated by ASWG on Aug 9, 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: 20260808T050816+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 [ASWG](#) .

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.