

Resource Summary Report

Generated by [NIF](#) on Sep 15, 2026

B6CBACa A^{w-J}/A-Aifm1/J

RRID:IMSR_JAX:000501

Type: Organism

Proper Citation

RRID:IMSR_JAX:000501

Organism Information

URL: <https://www.jax.org/strain/000501>

Proper Citation: RRID:IMSR_JAX:000501

Description: Mus musculus with name B6CBACa A^{w-J}/A-Aifm1/J from IMSR.

Species: Mus musculus

Synonyms: B6CBACa-A/A-Hq. B6CBACa A/A-Pdcd8/J. B6CBACa-A/A-Pdcd8

Notes: gene symbol note: apoptosis-inducing factor; mitochondrion-associated 1|nonagouti; mutant strain: Aifm1|a

Affected Gene: apoptosis-inducing factor; mitochondrion-associated 1|nonagouti

Genomic Alteration: harlequin|white bellied agouti Jackson

Catalog Number: JAX:000501

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: embryo

Organism Name: B6CBACa A^{w-J}/A-Aifm1/J

Record Creation Time: 20250513T053618+0000

Record Last Update: 20260912T060404+0000

Ratings and Alerts

No rating or validation information has been found for B6CBACa A^{w-J}/A-Aifm1/J.

No alerts have been found for B6CBACa A^{W-J}/A-Aifm1/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Fernández de la Torre M, et al. (2023) Pathophysiology of Cerebellar Degeneration in Mitochondrial Disorders: Insights from the Harlequin Mouse. International journal of molecular sciences, 24(13).

Laine-Menéndez S, et al. (2022) Apoptosis-Inducing Factor Deficiency Induces Tissue-Specific Alterations in Autophagy: Insights from a Preclinical Model of Mitochondrial Disease and Exercise Training Effects. Antioxidants (Basel, Switzerland), 11(3).

Hintze M, et al. (2021) Alopecia in Harlequin mutant mice is associated with reduced AIF protein levels and expression of retroviral elements. Mammalian genome : official journal of the International Mammalian Genome Society, 32(1), 12.

Bertan F, et al. (2021) Comparative analysis of CI- and CIV-containing respiratory supercomplexes at single-cell resolution. Cell reports methods, 1(1), 100002.

Fernández-de la Torre M, et al. (2020) Exercise Training and Neurodegeneration in Mitochondrial Disorders: Insights From the Harlequin Mouse. Frontiers in physiology, 11, 594223.

Fiuza-Luces C, et al. (2019) Physical Exercise and Mitochondrial Disease: Insights From a Mouse Model. Frontiers in neurology, 10, 790.