Resource Summary Report

Generated by NIF on Aug 31, 2026

B6.129S7-Ube3a^{tm1Alb}/J

RRID:IMSR_JAX:016590
Type: Organism

Proper Citation

RRID:IMSR_JAX:016590

Organism Information

URL: https://www.jax.org/strain/016590

Proper Citation: RRID:IMSR_JAX:016590

Description: Mus musculus with name B6.129S7-Ube3a^{tm1Alb}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: ubiquitin protein ligase E3A; mutant strain|congenic strain: Ube3a

Affected Gene: ubiquitin protein ligase E3A

Genomic Alteration: targeted mutation 1; Arthur L Beaudet

Catalog Number: JAX:016590

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S7-Ube3a^{tm1Alb}/J

Record Creation Time: 20250513T053730+0000

Record Last Update: 20260829T045028+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S7-Ube3a^{tm1Alb}/J.

No alerts have been found for B6.129S7-Ube3a^{tm1Alb}/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 15 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF .

Krzeski JC, et al. (2026) UBE3A isoform-selective and non-selective contributions to Angelman syndrome phenotypes. Molecular psychiatry, 31(6), 3284.

Xing L, et al. (2025) A luminescence-based biosensor to measure endogenous UBE3A activity. iScience, 28(11), 113684.

Montgomery DP, et al. (2025) Periodic and aperiodic contributions to EEG delta power are translatable and complementary Angelman syndrome biomarkers. bioRxiv : the preprint server for biology.

Vihma H, et al. (2024) Ube3a unsilencer for the potential treatment of Angelman syndrome. Nature communications, 15(1), 5558.

Beitnere U, et al. (2023) Unique Features of the Gut Microbiome Characterized in Animal Models of Angelman Syndrome. mSystems, 8(1), e0060822.

Xing L, et al. (2023) Autism-linked UBE3A gain-of-function mutation causes interneuron and behavioral phenotypes when inherited maternally or paternally in mice. Cell reports, 42(7), 112706.

Lee D, et al. (2023) Antisense oligonucleotide therapy rescues disturbed brain rhythms and sleep in juvenile and adult mouse models of Angelman syndrome. eLife, 12.

Campbell A, et al. (2022) AntimiR targeting of microRNA-134 reduces seizures in a mouse model of Angelman syndrome. Molecular therapy. Nucleic acids, 28, 514.

Sun J, et al. (2022) Lack of UBE3A-Mediated Regulation of Synaptic SK2 Channels Contributes to Learning and Memory Impairment in the Female Mouse Model of Angelman Syndrome. Neural plasticity, 2022, 3923384.

Copping NA, et al. (2021) Abnormal electrophysiological phenotypes and sleep deficits in a mouse model of Angelman Syndrome. Molecular autism, 12(1), 9.

Judson MC, et al. (2021) Dual-isoform hUBE3A gene transfer improves behavioral and seizure outcomes in Angelman syndrome model mice. JCI insight, 6(20).

Sun J, et al. (2020) PKA and Ube3a regulate SK2 channel trafficking to promote synaptic plasticity in hippocampus: Implications for Angelman Syndrome. Scientific reports, 10(1), 9824.

Moreira-de-S?? A, et al. (2020) Adenosine A2A receptors format long-term depression and memory strategies in a mouse model of Angelman syndrome. Neurobiology of disease, 146, 105137.

Sun J, et al. (2018) UBE3A-mediated p18/LAMTOR1 ubiquitination and degradation regulate mTORC1 activity and synaptic plasticity. eLife, 7.

Judson MC, et al. (2017) Decreased Axon Caliber Underlies Loss of Fiber Tract Integrity, Disproportional Reductions in White Matter Volume, and Microcephaly in Angelman Syndrome Model Mice. The Journal of neuroscience : the official journal of the Society for Neuroscience, 37(31), 7347.