Resource Summary Report

Generated by RRID on Jul 30, 2026

B6EiC3Sn.BLiAF1/J

RRID:IMSR_JAX:003647
Type: Organism

Proper Citation

RRID:IMSR_JAX:003647

Organism Information

URL: https://www.jax.org/strain/003647

Proper Citation: RRID:IMSR_JAX:003647

Description: Mus musculus with name B6EiC3Sn.BLiAF1/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: phosphodiesterase 6B; cGMP; rod receptor; beta polypeptide; unclassified: Pde6b

Affected Gene: phosphodiesterase 6B; cGMP; rod receptor; beta polypeptide

Genomic Alteration: wild type

Catalog Number: JAX:003647

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6EiC3Sn.BLiAF1/J

Record Creation Time: 20250513T053640+0000

Record Last Update: 20260725T044350+0000

Ratings and Alerts

No rating or validation information has been found for B6EiC3Sn.BLiAF1/J.

No alerts have been found for B6EiC3Sn.BLiAF1/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 22 mentions in open access literature.

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

Feng MY, et al. (2025) Molecular cartography of the human down syndrome and trisomic mouse brain. Nature communications, 16(1), 8689.

de Souza LE, et al. (2025) Brain metabolic and behavioral alterations in a Down syndrome model. Nuclear medicine and biology, 148-149, 109052.

Tallino S, et al. (2024) Assessing the Benefit of Dietary Choline Supplementation Throughout Adulthood in the Ts65Dn Mouse Model of Down Syndrome. Nutrients, 16(23).

Wang X, et al. (2024) Suppression of eEF2 phosphorylation alleviates synaptic failure and cognitive deficits in mouse models of Down syndrome. Alzheimer's & dementia : the journal of the Alzheimer's Association, 20(8), 5357.

Illouz T, et al. (2024) Unbiased analysis of spatial learning strategies in a modified Barnes maze using convolutional neural networks. Scientific reports, 14(1), 15944.

Rusu B, et al. (2023) Single-Nucleus Profiling Identifies Accelerated Oligodendrocyte Precursor Cell Senescence in a Mouse Model of Down Syndrome. eNeuro, 10(8).

Inguscio CR, et al. (2023) Physical Training Chronically Stimulates the Motor Neuron Cell Nucleus in the Ts65Dn Mouse, a Model of Down Syndrome. Cells, 12(11).

Zampieri BL, et al. (2022) Evidence of Energy Metabolism Alterations in Cultured Neonatal Astrocytes Derived from the Ts65Dn Mouse Model of Down Syndrome. Brain sciences, 12(1).

Sheppard K, et al. (2022) Stride-level analysis of mouse open field behavior using deep-learning-based pose estimation. Cell reports, 38(2), 110231.

Tallino S, et al. (2022) Temporal and brain region-specific elevations of soluble Amyloid-??40-42 in the Ts65Dn mouse model of Down syndrome and Alzheimer's disease. Aging cell, 21(4), e13590.

Sherman KM, et al. (2022) Low bone mass and impaired fracture healing in mouse models of Trisomy21 (Down syndrome). Bone, 162, 116471.

Victorino DB, et al. (2021) Atypical electrophysiological and behavioral responses to diazepam in a leading mouse model of Down syndrome. Scientific reports, 11(1), 9521.

Shaw PR, et al. (2020) Longitudinal neuroanatomical and behavioral analyses show phenotypic drift and variability in the Ts65Dn mouse model of Down syndrome. Disease models & mechanisms, 13(9).

Jain S, et al. (2020) Neurodevelopmental wiring deficits in the Ts65Dn mouse model of Down syndrome. Neuroscience letters, 714, 134569.

Roque AL, et al. (2020) Noninvasive assessment of autonomic modulation of heart rate variability in the Ts65Dn mouse model of Down syndrome: A proof of principle study. Physiological reports, 8(12), e14486.

Day SM, et al. (2019) Glucagon-Like Peptide-1 Cleavage Product Improves Cognitive Function in a Mouse Model of Down Syndrome. eNeuro, 6(2).

Glass TJ, et al. (2019) The Adult Ts65Dn Mouse Model of Down Syndrome Shows Altered Swallow Function. Frontiers in neuroscience, 13, 906.

Illouz T, et al. (2019) Restoring microglial and astroglial homeostasis using DNA immunization in a Down Syndrome mouse model. Brain, behavior, and immunity, 75, 163.

Aziz NM, et al. (2019) Spatiotemporal development of spinal neuronal and glial populations in the Ts65Dn mouse model of Down syndrome. Journal of neurodevelopmental disorders, 11(1), 35.

Aziz NM, et al. (2018) Lifespan analysis of brain development, gene expression and behavioral phenotypes in the Ts1Cje, Ts65Dn and Dp(16)1/Yey mouse models of Down syndrome. Disease models & mechanisms, 11(6).