

Resource Summary Report

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B6EiC3Sn.BLiA-Ts(17¹⁶)65Dn/DnJ

RRID:IMSR_JAX:005252

Type: Organism

Proper Citation

RRID:IMSR_JAX:005252

Organism Information

URL: <https://www.jax.org/strain/005252>

Proper Citation: RRID:IMSR_JAX:005252

Description: Mus musculus with name B6EiC3Sn.BLiA-Ts(17¹⁶)65Dn/DnJ from IMSR.

Species: Mus musculus

Synonyms: B6EiC3Sn.BLi a/A-Ts65Dn. B6C3.B-Ts65Dn

Notes: gene symbol note: trisomy; Chr 16 translocation to Chr 17; Davisson 65|phosphodiesterase 6B; cGMP; rod receptor; beta polypeptide; mutant stock: Ts(1716>)65Dn|Pde6b

Affected Gene: trisomy; Chr 16 translocation to Chr 17; Davisson 65|phosphodiesterase 6B; cGMP; rod receptor; beta polypeptide

Genomic Alteration: trisomy; Chr 16 translocation to Chr 17; Davisson 65|wild type

Catalog Number: JAX:005252

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6EiC3Sn.BLiA-Ts(17¹⁶)65Dn/DnJ

Record Creation Time: 20250513T053649+0000

Record Last Update: 20260801T050353+0000

Ratings and Alerts

No rating or validation information has been found for B6EiC3Sn.BLiA-Ts(17¹⁶)65Dn/DnJ.

No alerts have been found for B6EiC3Sn.BLiA-Ts(17¹⁶)65Dn/DnJ.

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 [RRID](#) .

Vidva R, et al. (2025) MyVivarium: A cloud-based lab animal colony management application with realtime ambient sensing. Computational and structural biotechnology journal, 27, 612.

Brandebura AN, et al. (2025) Dysregulation of astrocyte-secreted pleiotrophin contributes to neuronal structural and functional deficits in Down syndrome. Cell reports, 44(10), 116300.

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

Malbon AJ, et al. (2025) Carbonyl reductase 1: a novel regulator of blood pressure in Down syndrome. Bioscience reports, 45(2), 157.

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

Fernández-Blanco Á, et al. (2024) Beyond Quiescent and Active: Intermediate Microglial Transcriptomic States in a Mouse Model of Down Syndrome. International journal of molecular sciences, 25(6).

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

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

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.

Dekker AD, et al. (2017) Aging rather than aneuploidy affects monoamine neurotransmitters in brain regions of Down syndrome mouse models. *Neurobiology of disease*, 105, 235.

Glass TJ, et al. (2016) Digastric Muscle Phenotypes of the Ts65Dn Mouse Model of Down Syndrome. *PloS one*, 11(6), e0158008.

Lane AA, et al. (2014) Triplication of a 21q22 region contributes to B cell transformation through HMGN1 overexpression and loss of histone H3 Lys27 trimethylation. *Nature genetics*, 46(6), 618.

Hanson JE, et al. (2013) GluN2B antagonism affects interneurons and leads to immediate and persistent changes in synaptic plasticity, oscillations, and behavior. *Neuropsychopharmacology* : official publication of the American College of Neuropsychopharmacology, 38(7), 1221.

Heinen M, et al. (2012) Adult-onset fluoxetine treatment does not improve behavioral impairments and may have adverse effects on the Ts65Dn mouse model of Down syndrome. *Neural plasticity*, 2012, 467251.