

Resource Summary Report

Generated by [kravitz2](#) on Jul 31, 2026

B6.129S7-Dp(16Lipi-Zbtb21)1Yey/J

RRID:IMSR_JAX:013530

Type: Organism

Proper Citation

RRID:IMSR_JAX:013530

Organism Information

URL: <https://www.jax.org/strain/013530>

Proper Citation: RRID:IMSR_JAX:013530

Description: Mus musculus with name B6.129S7-Dp(16Lipi-Zbtb21)1Yey/J from IMSR.

Species: Mus musculus

Synonyms: B6;129S7-Dp(16Lipi-Zfp295)1Yey/J. B6129S-Dp(16Lipi-Zfp295)1Yey/J.
B6.129S7-Dp(16Lipi-Zfp295)1Yey/J

Notes: gene symbol note: duplication; Chr 16; Y Eugene Yu 1; mutant strain|congenic strain: Dp(16Lipi-Zbtb21)1Yey

Affected Gene: duplication; Chr 16; Y Eugene Yu 1

Genomic Alteration: duplication; Chr 16; Y Eugene Yu 1

Catalog Number: JAX:013530

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S7-Dp(16Lipi-Zbtb21)1Yey/J

Record Creation Time: 20250513T053724+0000

Record Last Update: 20260725T044433+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S7-Dp(16Lipi-Zbtb21)1Yey/J.

No alerts have been found for B6.129S7-Dp(16Lipi-Zbtb21)1Yey/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 11 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Reeser RS, et al. (2026) Aberrant tissue mechanics and mechanotransduction during heart development in down syndrome. *Journal of biomechanics*, 195, 113103.

Chen XQ, et al. (2025) Hyperactivation of RAB5 disrupts the endosomal Rab cascade leading to endolysosomal dysregulation in Down syndrome: A necessary role for increased APP gene dose. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 21(5), e70046.

Araya P, et al. (2025) Interferon signaling modulates Down syndrome-associated Alzheimer's disease pathology in a mouse model. *iScience*, 28(8), 113130.

Chen XQ, et al. (2025) Antisense oligonucleotides directed against App and Rab5??normalized endosomal Rab activity and reversed DS-AD-linked degenerative phenotypes in the Dp16 mouse model of Down syndrome. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 21(5), e70022.

Rastogi M, et al. (2024) Integrative multi-omic analysis reveals conserved cell-projection deficits in human Down syndrome brains. *Neuron*, 112(15), 2503.

Colombi I, et al. (2024) Heterogeneous subpopulations of GABAAR-responding neurons coexist across neuronal network scales and developmental stages in health and disease. *iScience*, 27(4), 109438.

Chi C, et al. (2023) Interferon hyperactivity impairs cardiogenesis in Down syndrome via downregulation of canonical Wnt signaling. *iScience*, 26(7), 107012.

Thomas SN, et al. (2023) Down syndrome is associated with altered frequency and functioning of tracheal multiciliated cells, and response to influenza virus infection. *iScience*, 26(8), 107361.

Pinto B, et al. (2020) Rescuing Over-activated Microglia Restores Cognitive Performance in Juvenile Animals of the Dp(16) Mouse Model of Down Syndrome. *Neuron*, 108(5), 887.

Tuttle KD, et al. (2020) JAK1 Inhibition Blocks Lethal Immune Hypersensitivity in a Mouse Model of Down Syndrome. *Cell reports*, 33(7), 108407.

Sullivan KD, et al. (2016) Trisomy 21 consistently activates the interferon response. *eLife*, 5.