Resource Summary Report

Generated by kravitz2 on Aug 27, 2026

B6.Cg-Tg(Drd1a-tdTomato)6Calak/J

RRID:IMSR_JAX:016204
Type: Organism

Proper Citation

RRID:IMSR_JAX:016204

Organism Information

URL: https://www.jax.org/strain/016204

Proper Citation: RRID:IMSR_JAX:016204

Description: Mus musculus with name B6.Cg-Tg(Drd1a-tdTomato)6Calak/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: dopamine receptor D1|transgene insertion 6; Nicole Calakos|; mutant strain|congenic strain: Drd1|Tg(Drd1a-tdTomato)6Calak|

Affected Gene: dopamine receptor D1|transgene insertion 6; Nicole Calakos|

Genomic Alteration: transgene insertion 6; Nicole Calakos

Catalog Number: JAX:016204

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Tg(Drd1a-tdTomato)6Calak/J

Record Creation Time: 20250513T053729+0000

Record Last Update: 20260815T050641+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Tg(Drd1a-tdTomato)6Calak/J.

No alerts have been found for B6.Cg-Tg(Drd1a-tdTomato)6Calak/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 112 mentions in open access literature.

Listed below are recent publications. The full list is available at kravitz2 .

Gorkowska-Nosal M, et al. (2026) The role of dopamine-sensitive motor cortical circuits in the development and execution of skilled forelimb movements. iScience, 29(3), 114983.

Xie X, et al. (2026) Dual-engram architecture within a single striatal cell type distinctly controls alcohol relapse and extinction. Neuron, 114(12), 2148.

Schamiloglu S, et al. (2025) Intrinsic Dendritic Integration Features of Prefrontal Layer 5 Pyramidal Cell Subclasses. The Journal of neuroscience : the official journal of the Society for Neuroscience, 45(48).

Roman KM, et al. (2025) Striatal cell-type-specific molecular signatures reveal potential therapeutic targets in a model of dystonia. Neurobiology of disease, 212, 106981.

Hunker AC, et al. (2025) Enhancer AAV toolbox for accessing and perturbing striatal cell types and circuits. Neuron, 113(10), 1507.

Druart M, et al. (2025) Cell-type-specific auditory responses in the striatum are shaped by feedforward inhibition. Cell reports, 44(1), 115090.

Bijoch ?, et al. (2025) Synaptic Plasticity of D1 and D2 Types of Neurons in the Central Amygdala After Sucrose and Cocaine Exposure. The European journal of neuroscience, 62(8), e70292.

Nguyen AM, et al. (2025) Characterization of G?s and G?olf activation by catechol and non-catechol dopamine D1 receptor agonists. iScience, 28(5), 112345.

Sköld J, et al. (2025) Melanocortin 4 receptor-expressing neurons in the lateral stripe of the striatum regulate affect and motor control. iScience, 28(5), 112456.

Lucantonio F, et al. (2025) Ketamine rescues anhedonia by cell-type- and input-specific adaptations in the nucleus accumbens. Neuron, 113(9), 1398.

Pagiazitis JG, et al. (2025) Catecholaminergic dysfunction drives postural and locomotor deficits in a mouse model of spinal muscular atrophy. Cell reports, 44(1), 115147.

Haetzel LM, et al. (2025) Inhibitory inputs from thalamus promote resilient spiking in tail of striatum. iScience, 28(11), 113880.

Amroune K, et al. (2025) Sparse innervation and local heterogeneity in the vibrissal corticostriatal projection. eLife, 14.

Li YD, et al. (2024) Anterior cingulate cortex projections to the dorsal medial striatum underlie insomnia associated with chronic pain. Neuron.

Druart M, et al. (2024) Cell-type specific auditory responses in the striatum are shaped by feed forward inhibition. bioRxiv : the preprint server for biology.

Ting JT, et al. (2024) Distinctive physiology of molecularly identified medium spiny neurons in the macaque putamen. Cell reports, 43(11), 114963.

Chuhma N, et al. (2024) Regional heterogeneity in the membrane properties of mouse striatal neurons. Frontiers in cellular neuroscience, 18, 1412897.

Bragues JC, et al. (2024) Dopamine-mediated plasticity preserves excitatory connections to direct pathway striatal projection neurons and motor function in a mouse model of Parkinson's disease. bioRxiv : the preprint server for biology.

Nasello C, et al. (2024) Human mutations in high-confidence Tourette disorder genes affect sensorimotor behavior, reward learning, and striatal dopamine in mice. Proceedings of the National Academy of Sciences of the United States of America, 121(19), e2307156121.

Kim N, et al. (2024) Repulsive Sema3E-Plexin-D1 signaling coordinates both axonal extension and steering via activating an autoregulatory factor, Mtss1. eLife, 13.