

Resource Summary Report

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

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

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: 20260725T044438+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 108 mentions in open access literature.

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

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.

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

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

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 β s and G β 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.

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*.

Brague 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*.

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

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

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.

Assali A, et al. (2024) EphB1 controls long-range cortical axon guidance through a cell non-autonomous role in GABAergic cells. *Development (Cambridge, England)*, 151(5).

Tian G, et al. (2024) Molecular and circuit determinants in the globus pallidus mediating control of cocaine-induced behavioral plasticity. *Neuron*, 112(20), 3470.

Aziz HC, et al. (2024) Sex differences in membrane properties and cellular excitability of dopamine D1 receptor-expressing neurons within the shell of the nucleus accumbens of pre- and mid-adolescent mice. *Biology of sex differences*, 15(1), 54.

Funahashi Y, et al. (2024) Signal flow in the NMDA receptor-dependent phosphoproteome regulates postsynaptic plasticity for aversive learning. *Science signaling*, 17(853), eado9852.