

Resource Summary Report

Generated by [NIF](#) on Sep 23, 2026

STOCK Tg(Adora2a-cre)KG139Gsat/Mmucd

RRID:MMRRC_031168-UCD

Type: Organism

Proper Citation

RRID:MMRRC_031168-UCD

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=31168

Proper Citation: RRID:MMRRC_031168-UCD

Description: Mus musculus with name STOCK Tg(Adora2a-cre)KG139Gsat/Mmucd from MMRRC.

Species: Mus musculus

Notes: Research areas: Cell Biology, Developmental Biology, Neurobiology, Research Tools; Mutation Type: Transgenic ; Collection: GENSAT

Affected Gene: |Adora2a|cre

Catalog Number: 031168-UCD

Background: Transgenic

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:14586460](#)

Alternate IDs: MMRRC_31168-UCD, MMRRC_031168, MMRRC_31168

Organism Name: STOCK Tg(Adora2a-cre)KG139Gsat/Mmucd

Record Creation Time: 20230308T055122+0000

Record Last Update: 20260919T133827+0000

Ratings and Alerts

No rating or validation information has been found for STOCK Tg(Adora2a-cre)KG139Gsat/Mmucd.

No alerts have been found for STOCK Tg(Adora2a-cre)KG139Gsat/Mmucd.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Mutant Mouse Resource and Research Center (MMRRC)

Usage and Citation Metrics

We found 33 mentions in open access literature.

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

Jáidar O, et al. (2025) Refinement of efficient encodings of movement in the dorsolateral striatum throughout learning. Cell reports, 44(9), 116229.

Zhai S, et al. (2025) State-dependent modulation of spiny projection neurons controls levodopa-induced dyskinesia in a mouse model of Parkinson's disease. bioRxiv : the preprint server for biology.

Remmers B, et al. (2025) Mu opioid receptors expressed in striatal D2 medium spiny neurons have divergent contributions to cocaine and morphine reward. Neuroscience, 568, 273.

Zhai S, et al. (2025) State-dependent modulation of spiny projection neurons controls levodopa-induced dyskinesia in a mouse model of Parkinson's disease. Science advances, 11(49), eadv8224.

Ortega-Tinoco S, et al. (2025) PACAP induces increased excitability in D1- and D2-expressing nucleus accumbens medium spiny neurons. Brain research bulletin, 224, 111323.

Haetzel LM, et al. (2024) Haploinsufficiency of Syngap1 in Striatal Indirect Pathway Neurons Alters Motor and Goal-Directed Behaviors in Mice. The Journal of neuroscience : the official journal of the Society for Neuroscience, 44(48).

Kuo HY, et al. (2023) Differential Development of Dendritic Spines in Striatal Projection Neurons of Direct and Indirect Pathways in the Caudoputamen and Nucleus Accumbens. eNeuro, 10(6).

Johansson Y, et al. (2023) Sensory processing in external globus pallidus neurons. Cell reports, 42(1), 111952.

Bertran-Gonzalez J, et al. (2023) Restoring the youthful state of striatal plasticity in aged mice re-enables cognitive control of action. Current biology : CB, 33(10), 1997.

Wang M, et al. (2023) Lateral septum adenosine A2A receptors control stress-induced depressive-like behaviors via signaling to the hypothalamus and habenula. *Nature communications*, 14(1), 1880.

Yun S, et al. (2023) Antipsychotic drug efficacy correlates with the modulation of D1 rather than D2 receptor-expressing striatal projection neurons. *Nature neuroscience*, 26(8), 1417.

de la Torre-Martinez R, et al. (2023) Ongoing movement controls sensory integration in the dorsolateral striatum. *Nature communications*, 14(1), 1004.

Belilos A, et al. (2023) Nucleus accumbens local circuit for cue-dependent aversive learning. *Cell reports*, 42(12), 113488.

Rendón-Ochoa EA, et al. (2022) Dopamine D2 and Adenosine A2A Receptors Interaction on Ca²⁺ Current Modulation in a Rodent Model of Parkinsonism. *ASN neuro*, 14, 17590914221102075.

Dai KZ, et al. (2022) Dopamine D2 receptors bidirectionally regulate striatal enkephalin expression: Implications for cocaine reward. *Cell reports*, 40(13), 111440.

Zhong DJ, et al. (2021) Adenosine A2A receptor antagonism protects against hyperoxia-induced retinal vascular loss via cellular proliferation. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 35(9), e21842.

Cui Q, et al. (2021) Dissociable Roles of Pallidal Neuron Subtypes in Regulating Motor Patterns. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 41(18), 4036.

Benthall KN, et al. (2021) Loss of Tsc1 from striatal direct pathway neurons impairs endocannabinoid-LTD and enhances motor routine learning. *Cell reports*, 36(6), 109511.

Ketzef M, et al. (2021) Differential Synaptic Input to External Globus Pallidus Neuronal Subpopulations In Vivo. *Neuron*, 109(3), 516.

Veldman MB, et al. (2020) Brainwide Genetic Sparse Cell Labeling to Illuminate the Morphology of Neurons and Glia with Cre-Dependent MORF Mice. *Neuron*, 108(1), 111.