

Resource Summary Report

Generated by [NIF](#) on Sep 20, 2026

STOCK Tg(Drd2-cre)ER44Gsat/Mmucd

RRID:MMRRC_017263-UCD

Type: Organism

Proper Citation

RRID:MMRRC_017263-UCD

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=17263

Proper Citation: RRID:MMRRC_017263-UCD

Description: Mus musculus with name STOCK Tg(Drd2-cre)ER44Gsat/Mmucd from MMRRC.

Species: Mus musculus

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

Affected Gene: |cre|Drd2

Catalog Number: 017263-UCD

Background: Transgenic

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:14586460](#)

Alternate IDs: MMRRC_17263-UCD, MMRRC_017263, MMRRC_17263

Organism Name: STOCK Tg(Drd2-cre)ER44Gsat/Mmucd

Record Creation Time: 20230308T054947+0000

Record Last Update: 20260919T133427+0000

Ratings and Alerts

No rating or validation information has been found for STOCK Tg(Drd2-cre)ER44Gsat/Mmucd.

No alerts have been found for STOCK Tg(Drd2-cre)ER44Gsat/Mmucd.

Data and Source Information

Source: [Integrated Animals](#)

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

Usage and Citation Metrics

We found 31 mentions in open access literature.

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

Machen B, et al. (2026) The encoding of interoceptive-based predictions by the paraventricular nucleus of the thalamus D2R+ neurons. *iScience*, 29(1), 114390.

Jiang L, et al. (2026) Glucosylceramide regulates depression through activating peroxisome proliferator-activated receptor gamma in dorsal striatum. *Theranostics*, 16(6), 2845.

Zhang B, et al. (2026) FOXP1 Hierarchically Shapes Synaptic Functions in Striatal iSPNs and Contributes to ASD Etiology. *Neuroscience bulletin*, 42(5), 1059.

Cheng Z, et al. (2025) Rasd2 regulates depression-like behaviors via DRD2 neurons in the prelimbic cortex afferent to nucleus accumbens core circuit. *Molecular psychiatry*, 30(2), 435.

Kim H, et al. (2025) Optogenetic Control of Dopamine Receptor 2 Reveals a Novel Aspect of Dopaminergic Neurotransmission in Motor Function. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 45(1).

Ward AL, et al. (2025) A model of ethanol self-administration in head-fixed mice. *Alcohol, clinical & experimental research*, 49(9), 2103.

Paniccia JE, et al. (2024) Restoration of a paraventricular thalamo-accumbal behavioral suppression circuit prevents reinstatement of heroin seeking. *Neuron*, 112(5), 772.

Beas S, et al. (2024) Dissociable encoding of motivated behavior by parallel thalamo-striatal projections. *Current biology : CB*, 34(7), 1549.

Zhu XN, et al. (2023) Propofol exerts anti-anhedonia effects via inhibiting the dopamine transporter. *Neuron*, 111(10), 1626.

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

Vollmer KM, et al. (2022) An opioid-gated thalamoaccumbal circuit for the suppression of reward seeking in mice. *Nature communications*, 13(1), 6865.

Miya K, et al. (2021) Expression of Heparan Sulfate Endosulfatases in the Adult Mouse Brain: Co-expression of Sulf1 and Dopamine D1/D2 Receptors. *Frontiers in neuroanatomy*, 15, 726718.

McCullough KM, et al. (2021) Nucleus Accumbens Medium Spiny Neuron Subtypes Differentially Regulate Stress-Associated Alterations in Sleep Architecture. *Biological psychiatry*, 89(12), 1138.

Alegre-Cortés J, et al. (2021) Medium spiny neurons activity reveals the discrete segregation of mouse dorsal striatum. *eLife*, 10.

Fredes F, et al. (2021) Ventro-dorsal Hippocampal Pathway Gates Novelty-Induced Contextual Memory Formation. *Current biology : CB*, 31(1), 25.

Smith ACW, et al. (2021) Opposing roles for striatonigral and striatopallidal neurons in dorsolateral striatum in consolidating new instrumental actions. *Nature communications*, 12(1), 5121.

Ducrocq F, et al. (2020) Causal Link between n-3 Polyunsaturated Fatty Acid Deficiency and Motivation Deficits. *Cell metabolism*, 31(4), 755.

Luo L, et al. (2020) Optimizing Nervous System-Specific Gene Targeting with Cre Driver Lines: Prevalence of Germline Recombination and Influencing Factors. *Neuron*, 106(1), 37.

Berland C, et al. (2020) Circulating Triglycerides Gate Dopamine-Associated Behaviors through DRD2-Expressing Neurons. *Cell metabolism*, 31(4), 773.

Khilghatyan J, et al. (2020) CRISPR-Cas9-Mediated Intersectional Knockout of Glycogen Synthase Kinase 3 α in D2 Receptor-Expressing Medial Prefrontal Cortex Neurons Reveals Contributions to Emotional Regulation. *The CRISPR journal*, 3(3), 198.