

Resource Summary Report

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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](#)

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

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 21 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

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

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.

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

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

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.

Johansson Y, et al. (2020) The Functional Organization of Cortical and Thalamic Inputs onto Five Types of Striatal Neurons Is Determined by Source and Target Cell Identities. *Cell reports*, 30(4), 1178.

Kwak S, et al. (2019) Distinct roles of striatal direct and indirect pathways in value-based decision making. *eLife*, 8.

Li Z, et al. (2018) Cell-Type-Specific Afferent Innervation of the Nucleus Accumbens Core and Shell. *Frontiers in neuroanatomy*, 12, 84.

Yang H, et al. (2018) Nucleus Accumbens Subnuclei Regulate Motivated Behavior via Direct Inhibition and Disinhibition of VTA Dopamine Subpopulations. *Neuron*, 97(2), 434.

Senzai Y, et al. (2017) Physiological Properties and Behavioral Correlates of Hippocampal Granule Cells and Mossy Cells. *Neuron*, 93(3), 691.

Bernal-Casas D, et al. (2017) Studying Brain Circuit Function with Dynamic Causal Modeling for Optogenetic fMRI. *Neuron*, 93(3), 522.

Heinsbroek JA, et al. (2017) Loss of Plasticity in the D2-Accumbens Pallidal Pathway Promotes Cocaine Seeking. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 37(4), 757.

Ketzef M, et al. (2017) Dopamine Depletion Impairs Bilateral Sensory Processing in the Striatum in a Pathway-Dependent Manner. *Neuron*, 94(4), 855.

LaRese TP, et al. (2017) Using Kalirin conditional knockout mice to distinguish its role in dopamine receptor mediated behaviors. *BMC neuroscience*, 18(1), 45.