

# Resource Summary Report

Generated by [dkNET](#) on Sep 5, 2026

## STOCK Tg(Drd1-cre)EY217Gsat/Mmucd

RRID:MMRRC\_030778-UCD

Type: Organism

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### Proper Citation

RRID:MMRRC\_030778-UCD

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### Organism Information

**URL:** [https://www.mmrrc.org/catalog/sds.php?mmrrc\\_id=30778](https://www.mmrrc.org/catalog/sds.php?mmrrc_id=30778)

**Proper Citation:** RRID:MMRRC\_030778-UCD

**Description:** Mus musculus with name STOCK Tg(Drd1-cre)EY217Gsat/Mmucd from MMRRC.

**Species:** Mus musculus

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

**Affected Gene:** |cre|Drd1

**Catalog Number:** 030778-UCD

**Background:** Transgenic

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

**Database Abbreviation:** MMRRC

**Source References:** [PMID:14586460](#)

**Alternate IDs:** MMRRC\_30778-UCD, MMRRC\_030778, MMRRC\_3778

**Organism Name:** STOCK Tg(Drd1-cre)EY217Gsat/Mmucd

**Record Creation Time:** 20230308T055121+0000

**Record Last Update:** 20260905T110840+0000

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### Ratings and Alerts

No rating or validation information has been found for STOCK Tg(Drd1-cre)EY217Gsat/Mmucd.

No alerts have been found for STOCK Tg(Drd1-cre)EY217Gsat/Mmucd.

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## Data and Source Information

**Source:** [Integrated Animals](#)

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

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## Usage and Citation Metrics

We found 15 mentions in open access literature.

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

Klee JL, et al. (2025) Internal and external contexts drive distinct dynamics in shared action-encoding striatal neurons. bioRxiv : the preprint server for biology.

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

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).

Wu XB, et al. (2023) Excitatory Projections from the Prefrontal Cortex to Nucleus Accumbens Core D1-MSNs and ? Opioid Receptor Modulate Itch-Related Scratching Behaviors. The Journal of neuroscience : the official journal of the Society for Neuroscience, 43(8), 1334.

Araya A, et al. (2023) Overexpression of wild type glycine alpha 1 subunit rescues ethanol sensitivity in accumbal receptors and reduces binge drinking in mice. Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology, 48(9), 1367.

Kintscher M, et al. (2023) A striatal circuit balances learned fear in the presence and absence of sensory cues. eLife, 12.

Zhang ZJ, et al. (2023) Descending dopaminergic pathway facilitates itch signal processing via activating spinal GRPR+ neurons. EMBO reports, 24(10), e56098.

Maltese M, et al. (2021) Dopamine differentially modulates the size of projection neuron ensembles in the intact and dopamine-depleted striatum. eLife, 10.

Nelson A, et al. (2021) Corticospinal populations broadcast complex motor signals to coordinated spinal and striatal circuits. Nature neuroscience, 24(12), 1721.

Sippy T, et al. (2021) Cell Type-Specific Membrane Potential Changes in Dorsolateral Striatum Accompanying Reward-Based Sensorimotor Learning. *Function* (Oxford, England), 2(6), zqab049.

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.

Lippert RN, et al. (2020) Maternal high-fat diet during lactation reprograms the dopaminergic circuitry in mice. *The Journal of clinical investigation*, 130(7), 3761.

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

Bellini S, et al. (2018) Neuronal Glutamate Transporters Control Dopaminergic Signaling and Compulsive Behaviors. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 38(4), 937.

Hawes SL, et al. (2017) Long-term plasticity of corticostriatal synapses is modulated by pathway-specific co-release of opioids through  $\mu$ -opioid receptors. *The Journal of physiology*, 595(16), 5637.