

Resource Summary Report

Generated by [dkNET](#) on Sep 9, 2026

B6.FVB(Cg)-Tg(Drd1-cre)EY217Gsat/Mmucd

RRID:MMRRC_034258-UCD

Type: Organism

Proper Citation

RRID:MMRRC_034258-UCD

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=34258

Proper Citation: RRID:MMRRC_034258-UCD

Description: Mus musculus with name B6.FVB(Cg)-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: |Drd1|cre

Catalog Number: 034258-UCD

Background: Transgenic

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:14586460](#)

Alternate IDs: MMRRC_34258-UCD, MMRRC_034258, MMRRC_34258

Organism Name: B6.FVB(Cg)-Tg(Drd1-cre)EY217Gsat/Mmucd

Record Creation Time: 20230308T055132+0000

Record Last Update: 20260905T110858+0000

Ratings and Alerts

No rating or validation information has been found for B6.FVB(Cg)-Tg(Drd1-cre)EY217Gsat/Mmucd.

No alerts have been found for B6.FVB(Cg)-Tg(Drd1-cre)EY217Gsat/Mmucd.

Data and Source Information

Source: [Integrated Animals](#)

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

Usage and Citation Metrics

We found 28 mentions in open access literature.

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

Cover KK, et al. (2026) A Distinct Circuit for Biasing Visual Perceptual Decisions and Modulating Superior Colliculus Activity through the Mouse Posterior Striatum. The Journal of neuroscience : the official journal of the Society for Neuroscience, 46(7).

Yao XR, et al. (2026) Behavior- and Cell Type-Specific Cortico-Striatal Decoupling in a Parkinson's Disease-Like Mouse Model. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(10), e13670.

Nielsen BE, et al. (2025) Postsynaptic adaptations in direct pathway muscarinic M4-receptor signaling follow the temporal and regional pattern of dopaminergic degeneration. NPJ Parkinson's disease, 11(1), 186.

Paz RM, et al. (2025) Repetitive Levodopa Treatment Drives Cell Type-Specific Striatal Adaptations Associated With Progressive Dyskinesia in Parkinsonian Mice. bioRxiv : the preprint server for biology.

Frank A, et al. (2025) Electroconvulsive Therapy Induces Dopaminergic Axon Regeneration, Corticostriatal Remodeling, and Restoration of Motor Function in Parkinsonian Mice. bioRxiv : the preprint server for biology.

Zhang B, et al. (2025) Complementary corticostriatal circuits orchestrate action repetition and switching. Science advances, 11(21), eadt0854.

Kim HJ, et al. (2025) GluN2B-mediated regulation of silent synapses for receptor specification and addiction memory. Experimental & molecular medicine, 57(2), 436.

Muñoz B, et al. (2024) Alcohol consumption does not impact delta and kappa opioid receptor-mediated synaptic depression in dorsolateral striatum of adult male mice. Alcohol (Fayetteville, N.Y.), 119, 89.

Kim YJ, et al. (2024) The ion channel TRPA1 is a modulator of the cocaine reward circuit in the nucleus accumbens. Molecular psychiatry, 29(11), 3607.

Nielsen BE, et al. (2024) Reduced striatal M4-cholinergic signaling following dopamine loss contributes to parkinsonian and L-DOPA-induced dyskinetic behaviors. *Science advances*, 10(47), eadp6301.

Ryan MB, et al. (2024) Excessive firing of dyskinesia-associated striatal direct pathway neurons is gated by dopamine and excitatory synaptic input. *Cell reports*, 43(8), 114483.

Kim YJ, et al. (2024) The novel psychoactive substance 25E-NBOMe induces reward-related behaviors via dopamine D1 receptor signaling in male rodents. *Archives of pharmacal research*, 47(4), 360.

Li H, et al. (2023) Multiple dynamic interactions from basal ganglia direct and indirect pathways mediate action selection. *eLife*, 12.

Cui X, et al. (2023) A putative loop connection between VTA dopamine neurons and nucleus accumbens encodes positive valence to compensate for hunger. *Progress in neurobiology*, 229, 102503.

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

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

Tong Q, et al. (2023) D1 receptor-expressing neurons in ventral tegmental area alleviate mouse anxiety-like behaviors via glutamatergic projection to lateral septum. *Molecular psychiatry*, 28(2), 625.

Gong S, et al. (2021) Cocaine shifts dopamine D2 receptor sensitivity to gate conditioned behaviors. *Neuron*, 109(21), 3421.

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

Wang L, et al. (2020) Involvement of Striatal Direct Pathway in Visual Spatial Attention in Mice. *Current biology : CB*, 30(23), 4739.