

Resource Summary Report

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STOCK Tg(Ntsr1-cre)GN220Gsat/Mmucd

RRID:MMRRC_017266-UCD

Type: Organism

Proper Citation

RRID:MMRRC_017266-UCD

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=17266

Proper Citation: RRID:MMRRC_017266-UCD

Description: Mus musculus with name STOCK Tg(Ntsr1-cre)GN220Gsat/Mmucd from MMRRC.

Species: Mus musculus

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

Affected Gene: cre|Ntsr1|

Catalog Number: 017266-UCD

Background: Transgenic

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:14586460](#)

Alternate IDs: MMRRC_17266-UCD, MMRRC_017266, MMRRC_17266

Organism Name: STOCK Tg(Ntsr1-cre)GN220Gsat/Mmucd

Record Creation Time: 20230308T054947+0000

Record Last Update: 20250419T223249+0000

Ratings and Alerts

No rating or validation information has been found for STOCK Tg(Ntsr1-cre)GN220Gsat/Mmucd.

No alerts have been found for STOCK Tg(Ntsr1-cre)GN220Gsat/Mmucd.

Data and Source Information

Source: [Integrated Animals](#)

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

Usage and Citation Metrics

We found 18 mentions in open access literature.

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

Martinetti LE, et al. (2024) Motor Control of Distinct Layer 6 Corticothalamic Feedback Circuits. bioRxiv : the preprint server for biology.

Heindorf M, et al. (2024) Antipsychotic drugs selectively decorrelate long-range interactions in deep cortical layers. eLife, 12.

Martinetti LE, et al. (2024) Motor Control of Distinct Layer 6 Corticothalamic Feedback Circuits. eNeuro, 11(7).

Issa LK, et al. (2023) Highly branched and complementary distributions of layer 5 and layer 6 auditory corticofugal axons in mouse. Cerebral cortex (New York, N.Y. : 1991), 33(16), 9566.

Dumas DB, et al. (2022) Anatomical Development of the Cerebellothalamic Tract in Embryonic Mice. Cells, 11(23).

Martinetti LE, et al. (2022) Short-Term Facilitation of Long-Range Corticocortical Synapses Revealed by Selective Optical Stimulation. Cerebral cortex (New York, N.Y. : 1991), 32(9), 1932.

Babiczky Á, et al. (2022) Molecular characteristics and laminar distribution of prefrontal neurons projecting to the mesolimbic system. eLife, 11.

Dash S, et al. (2022) State-dependent modulation of activity in distinct layer 6 corticothalamic neurons in barrel cortex of awake mice. The Journal of neuroscience : the official journal of the Society for Neuroscience, 42(34), 6551.

Whilden CM, et al. (2021) The synaptic inputs and thalamic projections of two classes of layer 6 corticothalamic neurons in primary somatosensory cortex of the mouse. The Journal

of comparative neurology, 529(17), 3751.

Schäfer CB, et al. (2021) Temporal dynamics of the cerebello-cortical convergence in ventro-lateral motor thalamus. *The Journal of physiology*, 599(7), 2055.

Ibrahim BA, et al. (2021) Corticothalamic gating of population auditory thalamocortical transmission in mouse. *eLife*, 10.

Zolnik TA, et al. (2020) Layer 6b Is Driven by Intracortical Long-Range Projection Neurons. *Cell reports*, 30(10), 3492.

Miyamoto H, et al. (2019) Impaired cortico-striatal excitatory transmission triggers epilepsy. *Nature communications*, 10(1), 1917.

Leinweber M, et al. (2017) A Sensorimotor Circuit in Mouse Cortex for Visual Flow Predictions. *Neuron*, 95(6), 1420.

Bomben VC, et al. (2016) Isolated P/Q Calcium Channel Deletion in Layer VI Corticothalamic Neurons Generates Absence Epilepsy. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 36(2), 405.

Jeong M, et al. (2016) Comparative three-dimensional connectome map of motor cortical projections in the mouse brain. *Scientific reports*, 6, 20072.

Kim J, et al. (2014) Layer 6 corticothalamic neurons activate a cortical output layer, layer 5a. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 34(29), 9656.

Madisen L, et al. (2010) A robust and high-throughput Cre reporting and characterization system for the whole mouse brain. *Nature neuroscience*, 13(1), 133.