Resource Summary Report

Generated by dkNET on Sep 6, 2026

STOCK Tg(Drd4-EGFP)W18Gsat/Mmnc

RRID:MMRRC_000231-UNC
Type: Organism

Proper Citation

RRID:MMRRC_000231-UNC

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=231

Proper Citation: RRID:MMRRC_000231-UNC

Description: Mus musculus with name STOCK Tg(Drd4-EGFP)W18Gsat/Mmnc from MMRRC.

Species: Mus musculus

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

Affected Gene: Drd4|EGFP|

Catalog Number: 000231-UNC

Background: Transgenic

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: PMID:14586460

Alternate IDs: MMRRC_231-UNC, MMRRC_000231, MMRRC_231

Organism Name: STOCK Tg(Drd4-EGFP)W18Gsat/Mmnc

Record Creation Time: 20230308T054751+0000

Record Last Update: 20260905T110214+0000

Ratings and Alerts

No rating or validation information has been found for STOCK Tg(Drd4-EGFP)W18Gsat/Mmnc.

No alerts have been found for STOCK Tg(Drd4-EGFP)W18Gsat/Mmnc.

Data and Source Information

Source: Integrated Animals

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

Usage and Citation Metrics

We found 27 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET .

Tworig JM, et al. (2024) Differential Expression Analysis Identifies Candidate Synaptogenic Molecules for Wiring Direction-Selective Circuits in the Retina. The Journal of neuroscience : the official journal of the Society for Neuroscience, 44(18).

DePiero VJ, et al. (2024) Transformation of Motion Pattern Selectivity from Retina to Superior Colliculus. The Journal of neuroscience : the official journal of the Society for Neuroscience, 44(20).

Summers MT, et al. (2022) Distinct inhibitory pathways control velocity and directional tuning in the mouse retina. Current biology : CB, 32(10), 2130.

Huang ??? X, et al. (2022) Visual stimulation induces distinct forms of sensitization of On-Off direction-selective ganglion cell responses in the dorsal and ventral retina. The Journal of neuroscience : the official journal of the Society for Neuroscience, 42(22), 4449.

Ding J, et al. (2021) Spatially displaced excitation contributes to the encoding of interrupted motion by a retinal direction-selective circuit. eLife, 10.

Ankri L, et al. (2020) Antagonistic Center-Surround Mechanisms for Direction Selectivity in the Retina. Cell reports, 31(5), 107608.

Chen Q, et al. (2020) Preserving inhibition with a disinhibitory microcircuit in the retina. eLife, 9.

Huang X, et al. (2019) Neural mechanisms of contextual modulation in the retinal direction selective circuit. Nature communications, 10(1), 2431.

Liu J, et al. (2018) Tbr1 instructs laminar patterning of retinal ganglion cell dendrites. Nature neuroscience, 21(5), 659.

Duan X, et al. (2018) Cadherin Combinations Recruit Dendrites of Distinct Retinal Neurons to a Shared Interneuronal Scaffold. Neuron, 99(6), 1145.

Marques T, et al. (2018) A Role for Mouse Primary Visual Cortex in Motion Perception. Current biology : CB, 28(11), 1703.

Choi HJ, et al. (2018) Single-Cell Dissociation and Characterization in the Murine Retina and Optic Nerve. Methods in molecular biology (Clifton, N.J.), 1695, 311.

Hillier D, et al. (2017) Causal evidence for retina-dependent and -independent visual motion computations in mouse cortex. Nature neuroscience, 20(7), 960.

Peng YR, et al. (2017) Satb1 Regulates Contactin 5 to Pattern Dendrites of a Mammalian Retinal Ganglion Cell. Neuron, 95(4), 869.

Koren D, et al. (2017) Cross-compartmental Modulation of Dendritic Signals for Retinal Direction Selectivity. Neuron, 95(4), 914.

Chen Q, et al. (2016) Stimulus-dependent recruitment of lateral inhibition underlies retinal direction selectivity. eLife, 5.

Visser JJ, et al. (2015) An extracellular biochemical screen reveals that FLRTs and Unc5s mediate neuronal subtype recognition in the retina. eLife, 4, e08149.

Pei Z, et al. (2015) Conditional Knock-Out of Vesicular GABA Transporter Gene from Starburst Amacrine Cells Reveals the Contributions of Multiple Synaptic Mechanisms Underlying Direction Selectivity in the Retina. The Journal of neuroscience : the official journal of the Society for Neuroscience, 35(38), 13219.

Osterhout JA, et al. (2014) Birthdate and outgrowth timing predict cellular mechanisms of axon target matching in the developing visual pathway. Cell reports, 8(4), 1006.

Beier KT, et al. (2013) Transsynaptic tracing with vesicular stomatitis virus reveals novel retinal circuitry. The Journal of neuroscience : the official journal of the Society for Neuroscience, 33(1), 35.