

Resource Summary Report

Generated by [kravitz2](#) on Jul 31, 2026

LE-Tg(Drd1-icre)3Ottc

RRID:RRRC_00767

Type: Organism

Proper Citation

RRID:RRRC_00767

Organism Information

URL: http://rgd.mcw.edu/tools/strains/strains_view.cgi?id=10412325

Proper Citation: RRID:RRRC_00767

Description: Rattus norvegicus with name LE-Tg(Drd1-icre)3Ottc from RGD.

Species: Rattus norvegicus

Notes: The transgene expresses BAC transgenic using rat dopamine receptor 1 promoter to express Cre recombinase in D1R neurons [Optogenetics and Transgenic Technology Core](#), [Rat Resource and Research Center](#)

Catalog Number: 00767

Background: transgenic

Database: Rat Resource and Research Center (RRRC)

Database Abbreviation: RRRC

Availability: Live Animals (as of 2019-03-18)

Alternate IDs: RGD_10412325, 10412325, RRRC_767, RRRC_0767, RRRC_00767

Organism Name: LE-Tg(Drd1-icre)3Ottc

Record Creation Time: 20230607T202007+0000

Record Last Update: 20260725T094204+0000

Ratings and Alerts

No rating or validation information has been found for LE-Tg(Drd1-icre)3Ottc .

No alerts have been found for LE-Tg(Drd1-icre)3Ottc .

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Rat Resource and Research Center (RRRC)

Usage and Citation Metrics

We found 8 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Beacher NJ, et al. (2025) Miniscope Imaging of Nucleus Accumbens Neural Activity in Freely Behaving Rats: Virus Injection, Gradient Index Lens Implantation, Recording Strategies, and Analytical Methods. Current protocols, 5(1), e70090.

Mitra S, et al. (2024) A Novel Role for the Histone Demethylase JMJD3 in Mediating Heroin-Induced Relapse-Like Behaviors. Biological psychiatry.

Hagarty DP, et al. (2024) Exploring ketamine's reinforcement, cue-induced reinstatement, and nucleus accumbens cFos activation in male and female long evans rats. Neuropharmacology, 255, 110008.

Swinford-Jackson SE, et al. (2023) Low frequency deep brain stimulation of nucleus accumbens shell neuronal subpopulations attenuates cocaine seeking selectively in male rats. Addiction neuroscience, 9.

Swinford-Jackson SE, et al. (2023) High frequency DBS-like optogenetic stimulation of nucleus accumbens dopamine D2 receptor-containing neurons attenuates cocaine reinstatement in male rats. Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology, 48(3), 459.

Lanza K, et al. (2021) Genetic suppression of the dopamine D3 receptor in striatal D1 cells reduces the development of L-DOPA-induced dyskinesia. Experimental neurology, 336, 113534.

Strong CE, et al. (2020) Chemogenetic selective manipulation of nucleus accumbens medium spiny neurons bidirectionally controls alcohol intake in male and female rats. Scientific reports, 10(1), 19178.

Zhang Y, et al. (2020) Activation of GLP-1 receptors attenuates oxycodone taking and seeking without compromising the antinociceptive effects of oxycodone in rats. Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology, 45(3), 451.