

Resource Summary Report

Generated by [NIF](#) on Sep 2, 2026

LE-Drd1^{em1(iCre)}Berke

RRID:RRRC_00856

Type: Organism

Proper Citation

RRID:RRRC_00856

Organism Information

URL: http://rgd.mcw.edu/tools/strains/strains_view.cgi?id=14398499

Proper Citation: RRID:RRRC_00856

Description: Rattus norvegicus with name LE-Drd1^{em1(iCre)}Berke from RGD.

Species: Rattus norvegicus

Notes: The CRISPR system was used to created target insertion of iCre recombinase to the Drd1 (Drd1a) locus of the embryos of BluHsd:LE. [Rat Resource and Research Center](#)

Catalog Number: 00856

Background: mutant

Database: Rat Resource and Research Center (RRRC)

Database Abbreviation: RRRC

Availability: Live Animals (as of 2021-02-12)

Alternate IDs: RGD_14398499, 14398499, RRRC_856, RRRC_0856, RRRC_00856

Organism Name: LE-Drd1^{em1(iCre)}Berke

Record Creation Time: 20230607T202008+0000

Record Last Update: 20260829T095500+0000

Ratings and Alerts

No rating or validation information has been found for LE-Drd1^{em1(iCre)}Berke .

No alerts have been found for LE-Drd1^{em1(iCre)}Berke .

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Rat Resource and Research Center (RRRC)

Usage and Citation Metrics

We found 10 mentions in open access literature.

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

Xie X, et al. (2026) Dual-engram architecture within a single striatal cell type distinctly controls alcohol relapse and extinction. *Neuron*, 114(12), 2148.

Faust TW, et al. (2025) Reward expectation and receipt differentially modulate the spiking of accumbens D1+ and D2+ neurons. *Current biology : CB*, 35(6), 1285.

Mount KA, et al. (2025) Incubation of oxycodone craving is associated with CP-AMPA upregulation in D1 and D2 receptor-expressing medium spiny neurons in nucleus accumbens core and shell. *bioRxiv : the preprint server for biology*.

Kawa AB, et al. (2025) Changes in nucleus accumbens core transcriptome accompanying incubation of cocaine craving. *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology*, 50(8), 1305.

Jennings SD, et al. (2025) Effects of Chronic Social Isolation Stress and Alcohol on the Reinforcing Properties of Ketamine in Male and Female Rats. *eNeuro*, 12(3).

Soegyono O, et al. (2025) The influence of nucleus accumbens shell D1 and D2 neurons on outcome-specific Pavlovian instrumental transfer. *eLife*, 14.

Wunsch AM, et al. (2024) Retinoic acid-mediated homeostatic plasticity in the nucleus accumbens core contributes to incubation of cocaine craving. *Psychopharmacology*, 241(10), 1983.

Derman RC, et al. (2024) Role of nucleus accumbens D1-type medium spiny neurons in the expression and extinction of sign-tracking. *Behavioural brain research*, 459, 114768.

Martin JA, et al. (2019) A novel role for the actin-binding protein drebrin in regulating opiate addiction. *Nature communications*, 10(1), 4140.

Pettibone JR, et al. (2019) Knock-In Rat Lines with Cre Recombinase at the Dopamine D1 and Adenosine 2a Receptor Loci. *eNeuro*, 6(5).