

Resource Summary Report

Generated by [NIF](#) on Sep 6, 2026

LE-Adora2a^{em1(iCre)}Berke

RRID:RRRC_00857

Type: Organism

Proper Citation

RRID:RRRC_00857

Organism Information

URL: http://rgd.mcw.edu/tools/strains/strains_view.cgi?id=14398734

Proper Citation: RRID:RRRC_00857

Description: Rattus norvegicus with name LE-Adora2a^{em1(iCre)}Berke from RGD.

Species: Rattus norvegicus

Notes: The CRISPR system was used to created target insertion of iCre recombinase immediately after Adora2a gene, with P2A linker, of the embryos of BluHsd:LE. [Rat Resource and Research Center](#)

Catalog Number: 00857

Background: mutant

Database: Rat Resource and Research Center (RRRC)

Database Abbreviation: RRRC

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

Alternate IDs: RGD_14398734, 14398734, RRRC_857, RRRC_0857, RRRC_00857

Organism Name: LE-Adora2a^{em1(iCre)}Berke

Record Creation Time: 20230607T202008+0000

Record Last Update: 20260905T094653+0000

Ratings and Alerts

No rating or validation information has been found for LE-Adora2a^{em1(iCre)}Berke .

No alerts have been found for LE-*Adora2a*^{em1(iCre)}Berke .

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Rat Resource and Research Center (RRRC)

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

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.

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.

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