

Resource Summary Report

Generated by [dkNET](#) on Sep 17, 2026

LE-Gad1^{em15Yyan}

RRID:RGD_149735560

Type: Organism

Proper Citation

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Organism Information

URL: <https://rgd.mcw.edu/rgdweb/report/strain/main.html?id=149735560>

Proper Citation: RRID:RGD_149735560

Description: Rattus norvegicus with name LE-Gad1^{em15Yyan} from RGD.

Species: Rattus norvegicus

Notes: Knockout rats carry a 291 bp deletion, including exon-6 of Gad1 gene using the CRISPR/Cas9. Glutamate decarboxylase (GAD; there are two isoforms, GAD65 and GAD67) is an enzyme that synthesizes the neurotransmitter GABA. In this strain, the Gad1 gene encoding GAD67 was knocked out. In homozygous rats, low body weight at 3 weeks and impaired spatial learning memory were observed. Some homozygous rats die as juveniles. This strain is maintained in heterozygotes. [National BioResource Project for the Rat in Japan](#)

Catalog Number: 149735560

Background: mutant

Database: Rat Genome Database (RGD)

Database Abbreviation: RGD

Availability: Cryopreserved Sperm (as of 2021-07-22)

Alternate IDs: 149735560

Organism Name: LE-Gad1^{em15Yyan}

Record Creation Time: 20230509T191950+0000

Record Last Update: 20260912T202537+0000

Ratings and Alerts

No rating or validation information has been found for LE-*Gad1*^{em15Yyan}.

No alerts have been found for LE-*Gad1*^{em15Yyan}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Rat Genome Database (RGD)

Usage and Citation Metrics

We have not found any literature mentions for this resource.