

Resource Summary Report

Generated by [NIF](#) on Sep 21, 2026

ZFDM-Lcn2^{em1Nyo}

RRID:RGD_598154604

Type: Organism

Proper Citation

RRID:RGD_598154604

Organism Information

URL: <https://rgd.mcw.edu/rgdweb/report/strain/main.html?id=598154604>

Proper Citation: RRID:RGD_598154604

Description: Rattus norvegicus with name ZFDM-Lcn2^{em1Nyo} from RGD.

Species: Rattus norvegicus

Notes: "This knock-in rat was generated by injecting guide RNA, Cas9 protein, and ssODN targeting the Lcn2 gene into fertilized eggs of ZFDM rats. The Lcn2 gene of ZFDM rats has a nonsense mutation (c.409C>T, p.Gln137X), but in this line, this mutation is replaced with the wild type sequence by homologous recombination with the introduced ssODN. The target sequence of the guide RNA is TGACTACGACTAGTTTGCCA. The ssODN sequence for inducing homologous recombination is AAGTGGCCGACACTGACTACGACCAGTTTGCCATGGTATTTTTCCAGAAGACCTCTGAAA.
" [National BioResource Project for the Rat in Japan](#)

Catalog Number: 598154604

Background: mutant

Database: Rat Genome Database (RGD)

Database Abbreviation: RGD

Availability: Cryopreserved Sperm (as of 2025-04-30)

Alternate IDs: 598154604

Organism Name: ZFDM-Lcn2^{em1Nyo}

Record Creation Time: 20250514T090214+0000

Record Last Update: 20260919T201857+0000

Ratings and Alerts

No rating or validation information has been found for ZFDM-*Lcn2^{em1Nyo}*.

No alerts have been found for ZFDM-*Lcn2^{em1Nyo}*.

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.