

Resource Summary Report

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W-Vdr^{em1Thka}

RRID:RGD_124713546

Type: Organism

Proper Citation

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Organism Information

URL: <https://rgd.mcw.edu/rgdweb/report/strain/main.html?id=124713546>

Proper Citation: RRID:RGD_124713546

Description: Rattus norvegicus with name W-Vdr^{em1Thka} from RGD.

Species: Rattus norvegicus

Notes: This strain was established by injecting Jcl:Wistar embryo with CRISPR/Cas9 system to disrupt the array near the arginine codon (CGC) at position 270 of the Vdr gene. This resulted in changing arginine codon to Leu at p.270 of the Vdr gene. They were allowed food and water ad libitum and fed a CE-2 formula diet (CLEA Japan, Inc., Tokyo, Japan) containing 1.15% calcium and 2,100 IU vitamin D3/kg diet. The Vdr (R270L) rats for analysis were fed an F-2 formula diet (Oriental Yeast Co., Tokyo, Japan) containing 0.74% calcium and 2000 IU vitamin D/kg diet¹² after weaning because the CE-2 diet partially reversed their rickets symptoms. Homozygotes Vdr(R270L) mutants were maintained by mating of heterozygotes.

Catalog Number: 124713546

Background: mutant

Database: Rat Genome Database (RGD)

Database Abbreviation: RGD

Availability: Unknown

Alternate IDs: 124713546

Organism Name: W-Vdr^{em1Thka}

Record Creation Time: 20230509T191949+0000

Record Last Update: 20260808T193746+0000

Ratings and Alerts

No rating or validation information has been found for W-Vdr^{em1Thka}.

No alerts have been found for W-Vdr^{em1Thka}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Rat Genome Database (RGD)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Nishikawa M, et al. (2022) Robust osteogenic efficacy of 2??-heteroarylalkyl vitamin D analogue AH-1 in VDR (R270L) hereditary vitamin D-dependent rickets model rats. Scientific reports, 12(1), 12517.