

Resource Summary Report

Generated by [dkNET](#) on Jul 30, 2026

F344-Hcn1^{em1Kyo}

RRID:RGD_38676253

Type: Organism

Proper Citation

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Organism Information

URL: <https://rgd.mcw.edu/rgdweb/report/strain/main.html?id=38676253>

Proper Citation: RRID:RGD_38676253

Description: Rattus norvegicus with name F344-Hcn1^{em1Kyo} from RGD.

Species: Rattus norvegicus

Notes: TALEN (Left: ttcagAATGATTCATGGG, Right : ACGCACTCTTCAAAGCTA) targeting the exon4 of hyperpolarization-activated cyclic nucleotide-gated 1 channel (Hcn1) gene was designed and mRNA coding these TALEN was microinjected into F344/NSlc embryo. A 7-bp deletion in the exon4 of Hcn1 gene: as a result of frameshift mutation, stop codon is produced. Decreased expression levels of Hcn1 gene and HCN1 protein. [National BioResource Project for the Rat in Japan](#)

Catalog Number: 38676253

Background: mutant

Database: Rat Genome Database (RGD)

Database Abbreviation: RGD

Availability: Cryopreserved Sperm (as of 2020-09-16)

Alternate IDs: 38676253

Organism Name: F344-Hcn1^{em1Kyo}

Record Creation Time: 20230509T191951+0000

Record Last Update: 20260725T194309+0000

Ratings and Alerts

No rating or validation information has been found for F344-*Hcn1*^{em1Kyo}.

No alerts have been found for F344-*Hcn1*^{em1Kyo}.

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.