

Resource Summary Report

Generated by [kravitz2](#) on Jul 31, 2026

F344-Nppc^{em4Kyo}

RRID:RGD_127284872

Type: Organism

Proper Citation

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Organism Information

URL: <https://rgd.mcw.edu/rgdweb/report/strain/main.html?id=127284872>

Proper Citation: RRID:RGD_127284872

Description: Rattus norvegicus with name F344-Nppc^{em4Kyo} from RGD.

Species: Rattus norvegicus

Notes: This strain was established by injecting Zinc-finger nucleases (ZFNs) to F344/Stm pronuclear stage embryos. Selected ZFNs were designed to target exon 1 of rat Nppc, which encodes the N-terminus of natriuretic peptide precursor C (target sequence: CGAAGCCAAGCCCGGGACaccaccGAAGGTGGGTGCTGTCGCG; nucleotides 179 - 221, NC_005108.4). The injected F344/Stm embryos were transferred into the oviducts of pseudopregnant rats. Four lines of knockout strains were established. This F344-Nppc^{em4Kyo} strain (delta 774) had a massive deletion within the Nppc gene that included the translation initiation site. Quantitative RT-PCR revealed that the expression of Nppc mRNA in the brain was drastically decreased in homozygous delta 774 mutant rats.

[National BioResource Project for the Rat in Japan](#)

Catalog Number: 127284872

Background: mutant

Database: Rat Genome Database (RGD)

Database Abbreviation: RGD

Availability: Unknown

Alternate IDs: 127284872

Organism Name: F344-Nppc^{em4Kyo}

Record Creation Time: 20230509T191950+0000

Record Last Update: 20260725T194307+0000

Ratings and Alerts

No rating or validation information has been found for F344-*Nppc*^{em4Kyo}.

No alerts have been found for F344-*Nppc*^{em4Kyo}.

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.