

Resource Summary Report

Generated by [NIF](#) on Sep 22, 2026

SD-Apoa4^{em1Bcgen}

RRID:RGD_150429965

Type: Organism

Proper Citation

RRID:RGD_150429965

Organism Information

URL: <https://rgd.mcw.edu/rgdweb/report/strain/main.html?id=150429965>

Proper Citation: RRID:RGD_150429965

Description: Rattus norvegicus with name SD-Apoa4^{em1Bcgen} from RGD.

Species: Rattus norvegicus

Notes: TALEN system targeting the rat ApoA4 gene was injected to Sprague Dawley embryos. An 8 bp deletion was induced within the coding region of ApoA4 gene, which results in a frameshift and gene knockout. The genotypes were confirmed by PCR analysis followed by Sanger sequencing and agarose electrophoresis (PCR forward primer: 5'-TATCCCAACTCCAACATCATCCA-3', reverse primer: 5'-TCGCAGTCTGATCCCACTTACTT-3'). The knockout allele generated a band at 237 bp, while the wild-type allele was at 245 bp.

Catalog Number: 150429965

Background: mutant

Database: Rat Genome Database (RGD)

Database Abbreviation: RGD

Availability: Unknown

Alternate IDs: 150429965

Organism Name: SD-Apoa4^{em1Bcgen}

Record Creation Time: 20230509T191950+0000

Record Last Update: 20260919T201851+0000

Ratings and Alerts

No rating or validation information has been found for SD-*Apoa4^{em1Bcgen}*.

No alerts have been found for SD-*Apoa4^{em1Bcgen}*.

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 [NIF](#).

Wu Y, et al. (2022) Human umbilical cord-derived stem cell sheets improve left ventricular function in rat models of ischemic heart failure. European journal of pharmacology, 925, 174994.