

Resource Summary Report

Generated by [kravitz2](#) on Aug 1, 2026

SD-Gfap^{em1Mes+/-}

RRID:RRRC_00932

Type: Organism

Proper Citation

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Organism Information

URL: http://rgd.mcw.edu/tools/strains/strains_view.cgi?id=598973845

Proper Citation: RRID:RRRC_00932

Description: Rattus norvegicus with name SD-Gfap^{em1Mes+/-} from RGD.

Species: Rattus norvegicus

Notes: The targeted mutation in the rat GFAP gene was based on the severity and frequency of the R239H mutation in human disease. The CRISPR/Cas9 system was used to mediated knockin of point mutation (R237H) to Sprague-Dawley embryos. The current background strain is Crl:CD (SD). This mutant strain serves as a model for Alexander disease. knockins have post-weaning failure to thrive and ~10% mortality by 12 weeks, but afterwards are viable and can breed . The strain is now deposited at [Rat Resource and Research Center](#)

Catalog Number: 00932

Background: mutant

Database: Rat Resource and Research Center (RRRC)

Database Abbreviation: RRRC

Availability: Unknown

Alternate IDs: RGD_598973845, 598973845, RRRC_932, RRRC_0932, RRRC_00932

Organism Name: SD-Gfap^{em1Mes+/-}

Record Creation Time: 20250607T052841+0000

Record Last Update: 20260801T100219+0000

Ratings and Alerts

No rating or validation information has been found for SD-*Gfap*^{em1Mes+/-} .

No alerts have been found for SD-*Gfap*^{em1Mes+/-} .

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Rat Resource and Research Center (RRRC)

Usage and Citation Metrics

We found 3 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Kim SW, et al. (2023) Biodistribution and pharmacokinetic evaluation of Korean Red Ginseng components using radioisotopes in a rat model. Journal of ginseng research, 47(1), 74.

Dub?? C, et al. (2022) Lack of effects on female fertility or pre- and postnatal development of offspring in rats after exposure to AS03-adjuvanted recombinant plant-derived virus-like particle vaccine candidate for COVID-19. Reproductive toxicology (Elmsford, N.Y.), 107, 69.

Hagemann TL, et al. (2021) Antisense therapy in a rat model of Alexander disease reverses GFAP pathology, white matter deficits, and motor impairment. Science translational medicine, 13(620), eabg4711.