Resource Summary Report

Generated by nidm-terms on Aug 9, 2026

SD-*Gfap*$^{em1(2A\text{-}Chr2\text{-}EYFP)Ionsz}$

RRID:RGD_10054279
Type: Organism

Proper Citation

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Organism Information

URL: https://rgd.mcw.edu/rgdweb/report/strain/main.html?id=10054279

Proper Citation: RRID:RGD_10054279

Description: Rattus norvegicus with name SD-*Gfap*$^{em1(2A\text{-}Chr2\text{-}EYFP)Ionsz}$ from RGD.

Species: Rattus norvegicus

Notes: CRISPR/Cas9 system was used to generate this mutant; sgRNA+Cas9+ plasmid was injected into zygote of SD rat that added a 2A (the self-cleaving 2A peptide sequence from foot-and-mouth disease virus or other picornaviruses), blue light-gated cation channel channelrhodopsin-2 (ChR2) and EYFP behind the last exon of Gfap. Institute of Neuroscience, Chinese Academy of Sciences

Catalog Number: 10054279

Background: mutant

Database: Rat Genome Database (RGD)

Database Abbreviation: RGD

Availability: Unknown

Alternate IDs: 10054279

Organism Name: SD-*Gfap*$^{em1(2A\text{-}Chr2\text{-}EYFP)Ionsz}$

Record Creation Time: 20230509T191946+0000

Record Last Update: 20260808T193740+0000

Ratings and Alerts

No rating or validation information has been found for SD-*Gfap*$^{em1(2A\text{-}Chr2\text{-}EYFP)Ionsz}$.

No alerts have been found for SD-*Gfap*$^{em1(2A\text{-}Chr2\text{-}EYFP)Ionsz}$.

Data and Source Information

Source: Integrated Animals

Source Database: Rat Genome Database (RGD)

Usage and Citation Metrics

We found 2 mentions in open access literature.

Listed below are recent publications. The full list is available at nidm-terms .

Burke DA, et al. (2022) Serotonin receptors contribute to dopamine depression of lateral inhibition in the nucleus accumbens. Cell reports, 39(6), 110795.

Morgenstern NA, et al. (2022) Pyramidal tract neurons drive amplification of excitatory inputs to striatum through cholinergic interneurons. Science advances, 8(6), eabh4315.