

Resource Summary Report

Generated by [dkNET](#) on Sep 10, 2026

SPRD

RRID:RGD_1566457

Type: Organism

Proper Citation

RRID:RGD_1566457

Organism Information

URL: <https://rgd.mcw.edu/rgdweb/report/strain/main.html?id=1566457>

Proper Citation: RRID:RGD_1566457

Description: Rattus norvegicus with name SPRD from RGD.

Species: Rattus norvegicus

Notes: From outbred Han:SPRD (Sprague-Dawley) rats. Dominant pelage mutation designated curly-3 (Cu3) occurred in 1975 at the Gesellschaft für Strahlenforschung, Dortmund, Germany. Mutant animals returned to Hannover where inbreeding began in 1976 (Greenhouse et al 1990).

Catalog Number: 1566457

Background: inbred

Database: Rat Genome Database (RGD)

Database Abbreviation: RGD

Availability: Unknown

Alternate IDs: 1566457

Organism Name: SPRD

Record Creation Time: 20230509T191932+0000

Record Last Update: 20260905T135214+0000

Ratings and Alerts

No rating or validation information has been found for SPRD.

No alerts have been found for SPRD.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Rat Genome Database (RGD)

Usage and Citation Metrics

We found 20 mentions in open access literature.

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

Guo R, et al. (2025) Arrestin-biased allosteric modulator of neurotensin receptor 1 alleviates acute and chronic pain. *Cell*, 188(16), 4332.

Guo X, et al. (2024) Ultrasound-targeted microbubble technology facilitates SAHH gene delivery to treat diabetic cardiomyopathy by activating AMPK pathway. *iScience*, 27(2), 108852.

Grüter T, et al. (2023) Propionate exerts neuroprotective and neuroregenerative effects in the peripheral nervous system. *Proceedings of the National Academy of Sciences of the United States of America*, 120(4), e2216941120.

Dorrego-Rivas A, et al. (2022) The core PCP protein Prickle2 regulates axon number and AIS maturation by binding to AnkG and modulating microtubule bundling. *Science advances*, 8(36), eabo6333.

Wang X, et al. (2022) Up-regulation of cell division cycle 20 expression alters the morphology of neuronal dendritic spines in the nucleus accumbens by promoting FMRP ubiquitination. *Journal of neurochemistry*, 162(2), 166.

Jeon YK, et al. (2022) Lower troponin expression in the right ventricle of rats explains interventricular differences in E-C coupling. *The Journal of general physiology*, 154(3).

Liu J, et al. (2021) Activation of trace amine-associated receptor 1 selectively attenuates the reinforcing effects of morphine. *British journal of pharmacology*, 178(4), 933.

Achanta S, et al. (2020) A Comprehensive Integrated Anatomical and Molecular Atlas of Rat Intrinsic Cardiac Nervous System. *iScience*, 23(6), 101140.

Liang L, et al. (2020) Involvement of homodomain interacting protein kinase 2-c-Jun N-terminal kinase/c-Jun cascade in the long-term synaptic toxicity and cognition impairment induced by neonatal Sevoflurane exposure. *Journal of neurochemistry*, 154(4), 372.

Noël G, et al. (2020) Agrin plays a major role in the coalescence of the aquaporin-4 clusters induced by gamma-1-containing laminin. *The Journal of comparative neurology*,

528(3), 407.

Wu J, et al. (2020) microRNA-9-5p alleviates blood-brain barrier damage and neuroinflammation after traumatic brain injury. *Journal of neurochemistry*, 153(6), 710.

Moritz CP, et al. (2019) Poor transcript-protein correlation in the brain: negatively correlating gene products reveal neuronal polarity as a potential cause. *Journal of neurochemistry*, 149(5), 582.

Horton TM, et al. (2019) Zinc-Chelating Small Molecules Preferentially Accumulate and Function within Pancreatic β Cells. *Cell chemical biology*, 26(2), 213.

Marte A, et al. (2019) Leucine-rich repeat kinase 2 phosphorylation on synapsin I regulates glutamate release at pre-synaptic sites. *Journal of neurochemistry*, 150(3), 264.

Pellegrino G, et al. (2018) A comparative study of the neural stem cell niche in the adult hypothalamus of human, mouse, rat and gray mouse lemur (*Microcebus murinus*). *The Journal of comparative neurology*, 526(9), 1419.

Abdolazimi Y, et al. (2018) CC-401 Promotes β -Cell Replication via Pleiotropic Consequences of DYRK1A/B Inhibition. *Endocrinology*, 159(9), 3143.

Dustrude ET, et al. (2018) Orexin Depolarizes Central Amygdala Neurons via Orexin Receptor 1, Phospholipase C and Sodium-Calcium Exchanger and Modulates Conditioned Fear. *Frontiers in neuroscience*, 12, 934.

Edwards AB, et al. (2018) Assessment of therapeutic window for poly-arginine-18D (R18D) in a P7 rat model of perinatal hypoxic-ischaemic encephalopathy. *Journal of neuroscience research*, 96(11), 1816.

Wang L, et al. (2018) The role of S-nitrosylation of kainate-type of ionotropic glutamate receptor 2 in epilepsy induced by kainic acid. *Journal of neurochemistry*, 144(3), 255.

Luque-García A, et al. (2018) Neural oscillations in the infralimbic cortex after electrical stimulation of the amygdala. Relevance to acute stress processing. *The Journal of comparative neurology*, 526(8), 1403.