

Resource Summary Report

Generated by [kravitz2](#) on Jul 29, 2026

SD-*Th*^{tm1(cre)}Sage

RRID:RGD_12905029

Type: Organism

Proper Citation

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Organism Information

URL: <https://rgd.mcw.edu/rgdweb/report/strain/main.html?id=12905029>

Proper Citation: RRID:RGD_12905029

Description: Rattus norvegicus with name SD-*Th*^{tm1(cre)}Sage from RGD.

Species: Rattus norvegicus

Notes: This ZFN knock in model expresses cre-recombinase under the control of the endogenous tyrosine hydroxylase promoter enabling specific expression in dopaminergic neurons. This model possesses a targeted insertion of (IRES)-cre immediately after the translational stop in the open reading frame of Th. The TH-Cre rat is useful for applications requiring tissue specific expression, including optogenetics and breeding with transgenic floxed lines. [Horizon Discovery](#)

Catalog Number: 12905029

Background: mutant

Database: Rat Genome Database (RGD)

Database Abbreviation: RGD

Availability: Live Animals (as of 2017-05-31)

Alternate IDs: 12905029

Organism Name: SD-*Th*^{tm1(cre)}Sage

Record Creation Time: 20230509T191948+0000

Record Last Update: 20260725T194304+0000

Ratings and Alerts

No rating or validation information has been found for SD-*Th^{tm1(cre)}Sage*.

No alerts have been found for SD-*Th^{tm1(cre)}Sage*.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Rat Genome Database (RGD)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Souza GMPR, et al. (2022) Adrenergic C1 neurons monitor arterial blood pressure and determine the sympathetic response to hemorrhage. Cell reports, 38(10), 110480.

Souza GMPR, et al. (2022) Chemogenetic activation of noradrenergic A5 neurons increases blood pressure and visceral sympathetic activity in adult rats. American journal of physiology. Regulatory, integrative and comparative physiology, 323(4), R512.

Souza GMPR, et al. (2020) Differential Contribution of the Retrotrapezoid Nucleus and C1 Neurons to Active Expiration and Arousal in Rats. The Journal of neuroscience : the official journal of the Society for Neuroscience, 40(45), 8683.