

Resource Summary Report

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SD-Tg(Sycp1-Cas9-eGFP)SynblRrrc

RRID:RGD_155260361

Type: Organism

Proper Citation

RRID:RGD_155260361

Organism Information

URL: <https://rgd.mcw.edu/rgdweb/report/strain/main.html?id=155260361>

Proper Citation: RRID:RGD_155260361

Description: Rattus norvegicus with name SD-Tg(Sycp1-Cas9-eGFP)SynblRrrc from RGD.

Species: Rattus norvegicus

Notes: This project entailed generation of a novel rat strain in which a P2A-Cas9-T2A-EGFP coding sequence was inserted at the stop codon of the rat Sycp1 gene for co-expression of Cas9 and EGFP under the control of the Sycp1 regulatory elements. Animals express Cas9 in the testis in the spermatogonial layer and in meiosis stages with 4N DNA content. Strain catalyzes high levels of Active Genetic Gene conversion when paired with certain Active Genetic cassettes. ROBUST AND EFFICIENT ACTIVE GENETICS GENE CONVERSION IN THE RAT AND MOUSE Chenyen Lai, Oscar Alvarez, Kristen Read, Don van Fossan, Christopher M Conner, Shannon Xaing-Ru Xu, Dale O. Cowley, Valentino Gantz, David R. Webb, Kurt Jarnagin URL: Doi:10.1101/2022.08.30.505951 from RRRC.

Catalog Number: 155260361

Background: transgenic

Database: Rat Genome Database (RGD)

Database Abbreviation: RGD

Availability: Cryopreserved Sperm (as of 2022-10-06)

Alternate IDs: 155260361

Organism Name: SD-Tg(Sycp1-Cas9-eGFP)SynblRrrc

Record Creation Time: 20230509T191952+0000

Record Last Update: 20260829T184959+0000

Ratings and Alerts

No rating or validation information has been found for SD-Tg(Sycp1-Cas9-eGFP)SynblRrrc.

No alerts have been found for SD-Tg(Sycp1-Cas9-eGFP)SynblRrrc.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Rat Genome Database (RGD)

Usage and Citation Metrics

We have not found any literature mentions for this resource.