

Resource Summary Report

Generated by [kravitz2](#) on Aug 6, 2026

SD-Tg(Cyp3a23-3a1-Cyp3A4*-Cas9)Synb

RRID:RGD_155260368

Type: Organism

Proper Citation

RRID:RGD_155260368

Organism Information

URL: <https://rgd.mcw.edu/rgdweb/report/strain/main.html?id=155260368>

Proper Citation: RRID:RGD_155260368

Description: Rattus norvegicus with name SD-Tg(Cyp3a23-3a1-Cyp3A4*-Cas9)Synb from RGD.

Species: Rattus norvegicus

Notes: rat strain in which the rat Cyp3a1 gene (Cyp3a23-3a1, RGD:628626) was inactivated by insertion of a human CYP3A4 minigene (Cyp3A4*) and the linked rat Cyp3a2 locus was simultaneously mutated by CRISPR-mediated indel introduction. Strain contains Indel 8 at the Rat 3A2 locus (55 kb away), The CYP3A4 minigene included a CRISPR/Cas9 gene drive element to enable super-Mendelian inheritance. Strain contains and Active Genetic cassette which encodes a gRNA targeting the Rat 3A1 and 3A2 translation initiation site. 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 URL: Doi:10.1101/2022.08.30.505951 URL: Doi:10.1101/2022.08.30.505951 Donated to Rat Resource & Research Center

Catalog Number: 155260368

Background: transgenic

Database: Rat Genome Database (RGD)

Database Abbreviation: RGD

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

Alternate IDs: 155260368

Organism Name: SD-Tg(Cyp3a23-3a1-Cyp3A4*-Cas9)Synb

Record Creation Time: 20230509T191952+0000

Record Last Update: 20260801T194050+0000

Ratings and Alerts

No rating or validation information has been found for SD-Tg(Cyp3a23-3a1-Cyp3A4*-Cas9)Synb.

No alerts have been found for SD-Tg(Cyp3a23-3a1-Cyp3A4*-Cas9)Synb.

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.