

Resource Summary Report

Generated by [kravitz2](#) on Jul 31, 2026

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

RRID:RRRC_00970

Type: Organism

Proper Citation

RRID:RRRC_00970

Organism Information

URL: http://rgd.mcw.edu/tools/strains/strains_view.cgi?id=155260364

Proper Citation: RRID:RRRC_00970

Description: Rattus norvegicus with name SD-Tg(Cyp3a23-3a1-Cyp3A4*-Cas9)SynblRrrc 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: URL: Doi:10.1101/2022.08.30.505951 [Rat Resource and Research Center](#)

Catalog Number: 00970

Background: transgenic

Database: Rat Resource and Research Center (RRRC)

Database Abbreviation: RRRC

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

Alternate IDs: RGD_155260364, 155260364, RRRC_970, RRRC_0970, RRRC_00970

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

Record Creation Time: 20230822T170403+0000

Record Last Update: 20260725T094206+0000

Ratings and Alerts

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

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

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Rat Resource and Research Center (RRRC)

Usage and Citation Metrics

We have not found any literature mentions for this resource.