

Resource Summary Report

Generated by [nidm-terms](#) on Aug 9, 2026

SD-Mir500 *em1Cgen*

RRID:RGD_405850241

Type: Organism

Proper Citation

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Organism Information

URL: <https://rgd.mcw.edu/rgdweb/report/strain/main.html?id=405850241>

Proper Citation: RRID:RGD_405850241

Description: Rattus norvegicus with name SD-Mir500 *em1Cgen* from RGD.

Species: Rattus norvegicus

Notes: Sprague Dawley rats by microinjection of TALENs in fertilized eggs (Cyagen Biosciences). Briefly, the rno-mir-500 gene (Gene ID: 100314112; MirBase accession no. MIMAT0005321), which was located on rat chromosome X, was selected as the TALEN target site. TALENs were constructed using the Golden Gate Assembly and confirmed by sequencing. The founder, which carried 8- bp deletion (GCACCTGG) in the both strands compared with the wild-type (WT) DNA sequence, were genotyped by PCR followed by DNA-sequencing analysis. After that, heterozygous F1 were produced by mating F0 with WT rats. Heterozygous F1 rats were determined and mated to produce homozygote mutant (mir-500^{+/?}) and WT (mir-500^{+/+}).

Catalog Number: 405850241

Background: mutant

Database: Rat Genome Database (RGD)

Database Abbreviation: RGD

Availability: Unknown

Alternate IDs: 405850241

Organism Name: SD-Mir500 *em1Cgen*

Record Creation Time: 20240716T195759+0000

Record Last Update: 20260808T193751+0000

Ratings and Alerts

No rating or validation information has been found for SD-*Mir500*^{*em1Cgen*}.

No alerts have been found for SD-*Mir500*^{*em1Cgen*}.

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.