

Resource Summary Report

Generated by [dkNET](#) on Sep 8, 2026

SD-CdCS^{em1Bcgen+/-}

RRID:RGD_616390066

Type: Organism

Proper Citation

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Organism Information

URL: <https://rgd.mcw.edu/rgdweb/report/strain/main.html?id=616390066>

Proper Citation: RRID:RGD_616390066

Description: Rattus norvegicus with name SD-CdCS^{em1Bcgen+/-} from RGD.

Species: Rattus norvegicus

Notes: To generate the 5p15.2 deletion in the rat, two CRISPR gRNAs were designed at syntenic loci in the rat genome: ATGTCGATGTCTTGTTAGGGTGG at Chr.2:83120000 (RGSC 6.0/rn6) and GCTGAGATGGCTTTCAGAAATGG at Chr.2:84800000 (RGSC 6.0/rn6), which induced ~1.68 Mb chromosomal deletion. The Biocytogen Transgenic and Gene Targeting core injected 50 ng μ L⁻¹ of each gRNAs and 100 ng μ L⁻¹ Cas9 RNA into single-cell SD rat zygotes. Embryos were cultured overnight and transferred to pseudopregnant females. PCR was used to screen for the deletion. PCR was performed using genomic ear or tail DNA, and the following primer pair: Proximal Forward? TTGCTCAGCTGTTAAGGGAAACTAT and Distal Reverse? TCATCAAAATGCACCAAAAGTGCAA (these primers generate ~485 bp product). PCR primers were used to detect the breakpoint on the undeleted 5p15.2 interval (wild-type allele): Proximal Forward? TTGCTCAGCTGTTAAGGGAAACTAT and Proximal Reverse? GGAGTAAGTCAACTGACTAGGGGACA (these primers generate ~618 bp product).

Catalog Number: 616390066

Background: mutant

Database: Rat Genome Database (RGD)

Database Abbreviation: RGD

Availability: Unknown

Alternate IDs: 616390066

Organism Name: SD-*CdCS^{em1Bcgen+/-}*

Record Creation Time: 20250618T090054+0000

Record Last Update: 20260905T135247+0000

Ratings and Alerts

No rating or validation information has been found for SD-*CdCS^{em1Bcgen+/-}*.

No alerts have been found for SD-*CdCS^{em1Bcgen+/-}*.

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.