

Resource Summary Report

Generated by [dkNET](#) on Sep 18, 2026

WI-Tbc1d4^{em1Gdcz}

RRID:RGD_38596327

Type: Organism

Proper Citation

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Organism Information

URL: <https://rgd.mcw.edu/rgdweb/report/strain/main.html?id=38596327>

Proper Citation: RRID:RGD_38596327

Description: Rattus norvegicus with name WI-Tbc1d4^{em1Gdcz} from RGD.

Species: Rattus norvegicus

Notes: The mutant rats were created with CRISPR/Cas9 system. A single guide RNA (sgRNA) and protospacer adjacent motif was designed targeting coding strand: 5' GCGACAAGCGCTTCCGGCTA TGG 3' with a predicted cut site 111 bp downstream of the initiation codon. Fertilized eggs, produced by mating superovulated Wistar female rats (Envigo Hsd:WI, Strain Code 001) with Wistar males, were microinjected with sgRNA and implanted to pseudopregnant rats. A founder line carrying a 20-bp substitution deletion (TGGCGACAAGCGTTCCGGC) was selected and backcrossed with wild type Wistar outbred rats (Charles River Laboratory; Wilmington, VA) to establish heterozygous (+/-) colony. No protein product was detected from knock out T homozygous mutant (-/-) .

Catalog Number: 38596327

Background: mutant

Database: Rat Genome Database (RGD)

Database Abbreviation: RGD

Availability: Unknown

Alternate IDs: 38596327

Organism Name: WI-Tbc1d4^{em1Gdcz}

Record Creation Time: 20230509T191950+0000

Record Last Update: 20260912T202537+0000

Ratings and Alerts

No rating or validation information has been found for WI-*Tbc1d4^{em1Gdcz}*.

No alerts have been found for WI-*Tbc1d4^{em1Gdcz}*.

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.