

Resource Summary Report

Generated by [dkNET](#) on Sep 15, 2026

SHR-*Tti2*^{em1lpcv+/-}

RRID:RGD_405849381

Type: Organism

Proper Citation

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Organism Information

URL: <https://rgd.mcw.edu/rgdweb/report/strain/main.html?id=405849381>

Proper Citation: RRID:RGD_405849381

Description: Rattus norvegicus with name SHR-*Tti2*^{em1lpcv+/-} from RGD.

Species: Rattus norvegicus

Notes: This *Tti2* knockout rats were generated by microinjecting fertilized ova of SHR/Ola^{lpcv} rats with the ZFN (Zinc Finger Nuclease) construct from Sigma-Aldrich. The construct was designed to target the first exon using the following sequence of ZFN binding (capital letters) and cutting site (small letters):
TCTGACCCGGATCCAAGCaccaagGGTGGGTGGCAGGGC. DNA samples isolated from 452 rats born after microinjection with ZFN construct were amplified using primers flanking the target sequence: ZFN F: 5'-TACACTGTGATTGGCTGGGA-3' and ZFN R: 5'-GGCGCAGTGGAGTGATC-3'. SHR-*Tti2*^{+/-} with an 8 bp deletion (NM_001013883.1(*Tti2*):c.243_250delCGAGATCC; on the protein level: NP_001013905.1:p.Glu82Glyfs) has been selected for further analyses. The heterozygous founder was crossed with SHR and F1 rats were intercrossed. SHR-*Tti2*^{+/-} heterozygotes were selected for breeding and phenotyping while their wild type littermates were used as controls.

Catalog Number: 405849381

Background: mutant

Database: Rat Genome Database (RGD)

Database Abbreviation: RGD

Availability: Unknown

Alternate IDs: 405849381

Organism Name: SHR-*Tti2*^{em1lpcv+/-}

Record Creation Time: 20240716T195814+0000

Record Last Update: 20260912T202542+0000

Ratings and Alerts

No rating or validation information has been found for SHR-*Tti2*^{em1lpcv+/-}.

No alerts have been found for SHR-*Tti2*^{em1lpcv+/-}.

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.