

Resource Summary Report

Generated by [kravitz2](#) on Aug 3, 2026

SS-Vwf^{em4Mcwi}

RRID:RGD_150429598

Type: Organism

Proper Citation

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Organism Information

URL: <https://rgd.mcw.edu/rgdweb/report/strain/main.html?id=150429598>

Proper Citation: RRID:RGD_150429598

Description: Rattus norvegicus with name SS-Vwf^{em4Mcwi} from RGD.

Species: Rattus norvegicus

Notes: The rat strain was created via CRISPR/Cas9 targeting the VWF gene in DahlSS/Mcw (SS/JrHsdMcwi) rat embryos. The resulting rat strain has a 13bp deletion in the untranslated region of Exon 52 of the VWF gene (g.158491511 - 158491523 on chromosome 4, Assembly: mRatBN7.2) The 13-bp deletion happens to be in the region where the polyadenylation signal resides (AAUAAA). The resulting mRNA is not polyadenylated and has trouble with transport from the nucleus to the cytoplasm. The result is a phenotype that is similar to a Type I von Willebrand Disease, being a partial quantitative deficiency of the circulating VWF protein. Some mRNA must make it through to translation, because low levels of VWF protein are detectable via ELISA (10%). Both homozygous pairs and heterozygous pairs were used for breeding. [Rat Genetic Models](#), through Versiti Blood Research Institute

Catalog Number: 150429598

Background: mutant

Database: Rat Genome Database (RGD)

Database Abbreviation: RGD

Availability: Unknown

Alternate IDs: 150429598

Organism Name: SS-Vwf^{em4Mcwi}

Record Creation Time: 20230509T191951+0000

Record Last Update: 20260801T194049+0000

Ratings and Alerts

No rating or validation information has been found for SS-Vwf^{em4Mcowi}.

No alerts have been found for SS-Vwf^{em4Mcowi}.

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.