

Resource Summary Report

Generated by [kravitz2](#) on Jul 29, 2026

SS-Kcnj1^{em1Kasu}/+

RRID:RGD_13782280

Type: Organism

Proper Citation

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Organism Information

URL: <https://rgd.mcw.edu/rgdweb/report/strain/main.html?id=13782280>

Proper Citation: RRID:RGD_13782280

Description: Rattus norvegicus with name SS-Kcnj1^{em1Kasu}/+ from RGD.

Species: Rattus norvegicus

Notes: Zinc Finger Nuclease (ZFN) was utilized to knockout rat Kcnj1 function. ZFN constructs targeting the gene were designed and purchased from Sigma Aldrich (St. Louis, MO, USA). The targeting site sequence is CTCAAGTGACCATAGGTTACGgattcaGGTTTGTGAC (lower case represents the ZFN cleavage site). Kcnj1 knockout founders were generated by microinjection of ZFN mRNAs into single-cell SS (from Harlan) rat embryos. The resulting mutation is 209 bp deletion from G225 to G433, leading to frameshift and premature termination of Kcnj1 protein. This strain is the wild type littermate from heterozygous cross.

Catalog Number: 13782280

Background: mutant

Database: Rat Genome Database (RGD)

Database Abbreviation: RGD

Availability: Unknown

Alternate IDs: 13782280

Organism Name: SS-Kcnj1^{em1Kasu}/+

Record Creation Time: 20230509T191949+0000

Record Last Update: 20260725T194305+0000

Ratings and Alerts

No rating or validation information has been found for SS-*Kcnj1*^{em1Kasu+/-}.

No alerts have been found for SS-*Kcnj1*^{em1Kasu+/-}.

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.