

# Resource Summary Report

Generated by [dkNET](#) on Sep 17, 2026

## SS-Kcnj1<sup>em1Kasu+/-</sup>

RRID:RGD\_13782351

Type: Organism

### Proper Citation

RRID:RGD\_13782351

### Organism Information

**URL:** <https://rgd.mcw.edu/rgdweb/report/strain/main.html?id=13782351>

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**Description:** Rattus norvegicus with name SS-Kcnj1<sup>em1Kasu+/-</sup> 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 TCAAGTGACCATAGGTTACGgattcaGGTTTGTGAC (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 in homozygotes.

**Catalog Number:** 13782351

**Background:** mutant

**Database:** Rat Genome Database (RGD)

**Database Abbreviation:** RGD

**Availability:** Unknown

**Alternate IDs:** 13782351

**Organism Name:** SS-Kcnj1<sup>em1Kasu+/-</sup>

**Record Creation Time:** 20230509T191949+0000

**Record Last Update:** 20260912T202535+0000

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## Ratings and Alerts

No rating or validation information has been found for SS-*Kcnj1*<sup>em1Kasu+/-</sup>.

No alerts have been found for SS-*Kcnj1*<sup>em1Kasu+/-</sup>.

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## Data and Source Information

**Source:** [Integrated Animals](#)

**Source Database:** Rat Genome Database (RGD)

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.