

# Resource Summary Report

Generated by [NIF](#) on Sep 20, 2026

## ODS-Gulo<sup>od/od</sup>/ShiJcl

RRID:RGD\_4140404

Type: Organism

### Proper Citation

RRID:RGD\_4140404

### Organism Information

**URL:** <https://rgd.mcw.edu/rgdweb/report/strain/main.html?id=4140404>

**Proper Citation:** RRID:RGD\_4140404

**Description:** Rattus norvegicus with name ODS-Gulo<sup>od/od</sup>/ShiJcl from RGD.

**Species:** Rattus norvegicus

**Notes:** Dr. Susumu Makino and his colleagues found several animals that had gait abnormalities among Wistar rats maintained at Shionogi Co. They named these animals osteogenic disorder (OD) rats because they exhibited prominent bone and joint abnormalities and systemic bleeding. Subsequent studies revealed that these symptoms were derived from an ascorbic acid (vitamin C) deficiency arising from defective gulonolactone oxidase (GLO) activity. This characteristic was confirmed to be the result of a mutation involving the autosomal single recessive gene od. Scurvy due to L-gulonolactone oxidase deficiency; phenotype normalizes if supplied with ascorbic acid 300mg/kg/d. od/od rats are more susceptible to dental caries as compared with +/+ rats, in only amoun parous females. [CLEA Japan, Inc](#)

**Catalog Number:** 4140404

**Background:** inbred

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

**Database Abbreviation:** RGD

**Availability:** Live Animals (as of 2021-04-29)

**Alternate IDs:** 4140404

**Organism Name:** ODS-Gulo<sup>od/od</sup>/ShiJcl

**Record Creation Time:** 20230509T191940+0000

**Record Last Update:** 20260919T201834+0000

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## Ratings and Alerts

No rating or validation information has been found for ODS-*Gulo*<sup>od/od</sup>/*ShiJcl*.

No alerts have been found for ODS-*Gulo*<sup>od/od</sup>/*ShiJcl*.

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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.