

Resource Summary Report

Generated by [kravitz2](#) on Jul 30, 2026

SD-Trim63^{em1(hiLuc)}/Rrrc

RRID:RRRC_00731

Type: Organism

Proper Citation

RRID:RRRC_00731

Organism Information

URL: http://rgd.mcw.edu/tools/strains/strains_view.cgi?id=14695085

Proper Citation: RRID:RRRC_00731

Description: Rattus norvegicus with name SD-Trim63^{em1(hiLuc)}/Rrrc from RGD.

Species: Rattus norvegicus

Notes: The use of zinc finger nuclease technology (ZFN) to knockin a luciferase reporter directly downstream of MuRF1 (Trim63) coding sequences in rats, leaving endogenous MuRF1 gene expression intact and bicistronically linking it to the inserted reporter through a hepatitis C IRES (HCV-IRES). The resulting knockin rat line, MuRF1-hiLUCs, has reporter characteristics that are fully reflective of endogenous MuRF1 gene expression, can be used as a universal biomarker of skeletal muscle atrophy in vivo, and has a bioluminescent readout compatible with whole animal imaging modalities. [Rat Resource and Research Center](#)

Catalog Number: 00731

Background: mutant

Database: Rat Resource and Research Center (RRRC)

Database Abbreviation: RRRC

Availability: Unknown

Alternate IDs: RGD_14695085, 14695085, RRRC_731, RRRC_0731, RRRC_00731

Organism Name: SD-Trim63^{em1(hiLuc)}/Rrrc

Record Creation Time: 20230607T202008+0000

Record Last Update: 20260725T094207+0000

Ratings and Alerts

No rating or validation information has been found for SD-*Trim63*^{em1(hiLuc)}/Rrrc .

No alerts have been found for SD-*Trim63*^{em1(hiLuc)}/Rrrc .

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Rat Resource and Research Center (RRRC)

Usage and Citation Metrics

We have not found any literature mentions for this resource.