

Resource Summary Report

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

LE-ROSA26^{em1}(CAG-tdTomato-NpHR)1Sage

RRID:RGD_12905038

Type: Organism

Proper Citation

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Organism Information

URL: <https://rgd.mcw.edu/rgdweb/report/strain/main.html?id=12905038>

Proper Citation: RRID:RGD_12905038

Description: Rattus norvegicus with name LE-ROSA26^{em1}(CAG-tdTomato-NpHR)1Sage from RGD.

Species: Rattus norvegicus

Notes: This CRISPR knock in model possesses the Halorhodopsin fused to TdTomato, sitting behind a floxed stop codon in the ROSA26 locus under the control of the CAG promoter. By introducing Cre-recombinase by crossing with one of our Cre-driver rats, neuronal subtype-specific expression of halorhodopsin and TdTomato will be observed anywhere Cre- is expressed. The Halorhodopsin rat is useful for applications requiring tissue specific expression, including optogenetics and breeding with Cre-driver lines. ROSA26 is a synonym for rat Thumpd3-as1 (RGD:6491660) and is used as an official symbol for rat strain nomenclature. [Horizon Discovery](#)

Catalog Number: 12905038

Background: mutant

Database: Rat Genome Database (RGD)

Database Abbreviation: RGD

Availability: Live Animals (as of 2017-05-31)

Alternate IDs: 12905038

Organism Name: LE-ROSA26^{em1}(CAG-tdTomato-NpHR)1Sage

Record Creation Time: 20230509T191948+0000

Record Last Update: 20260725T194304+0000

Ratings and Alerts

No rating or validation information has been found for *LE-ROSA26^{em1}(CAG-tdTomato-NpHR)1Sage*.

No alerts have been found for *LE-ROSA26^{em1}(CAG-tdTomato-NpHR)1Sage*.

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.