

Resource Summary Report

Generated by [dkNET](#) on Sep 23, 2026

LE-ROSA26^{em1}(CAG-tdTomato)^{Rrrc}

RRID:RRRC_00938

Type: Organism

Proper Citation

RRID:RRRC_00938

Organism Information

URL: http://rgd.mcw.edu/tools/strains/strains_view.cgi?id=150520182

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

Species: Rattus norvegicus

Notes: The DNA construct was made by replacing ZsGreen with TdTomato in plasmid pCAG-loxP-STOP-loxP-ZsGreen (Addgene plasmid #51269, donated by Pawel Pelczar). CRISPR/Cas9 genome editing technology was used to knock in the DNA construct into the rat ROSA26 locus in the embryos from outbred BluHsd:LE. Reporter line that can be crossed with Cre-expressing strains. In presence of Cre, the floxed "STOP" upstream of the TdTomato gene is deleted allowing expression of the red fluorescent TdTomato protein. ROSA26 is a synonym for rat Thumpd3-as1 (RGD:6491660) and is used as an official symbol for rat strain nomenclature. [Rat Resource and Research Center](#)

Catalog Number: 00938

Background: mutant

Database: Rat Resource and Research Center (RRRC)

Database Abbreviation: RRRC

Availability: Live Animals (as of 2023-08-01)

Alternate IDs: RGD_150520182, 150520182, RRRC_938, RRRC_0938, RRRC_00938

Organism Name: LE-ROSA26^{em1}(CAG-tdTomato)^{Rrrc}

Record Creation Time: 20230607T202008+0000

Record Last Update: 20260919T110852+0000

Ratings and Alerts

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

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

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Rat Resource and Research Center (RRRC)

Usage and Citation Metrics

We found 4 mentions in open access literature.

Listed below are recent publications. The full list is available at [dkNET](#) .

Nakauchi S, et al. (2025) Nicotine and a positive allosteric modulator of m1 muscarinic receptor increase NMDA/AMPA ratio in the hippocampus and medial prefrontal cortex. *Neuropharmacology*, 262, 110213.

Mount KA, et al. (2025) Incubation of oxycodone craving is associated with CP-AMPA upregulation in D1 and D2 receptor-expressing medium spiny neurons in nucleus accumbens core and shell. *bioRxiv : the preprint server for biology*.

Holman CD, et al. (2024) Aging impairs cold-induced beige adipogenesis and adipocyte metabolic reprogramming. *eLife*, 12.

Gromova A, et al. (2023) X-linked SBMA model mice display relevant non-neurological phenotypes and their expression of mutant androgen receptor protein in motor neurons is not required for neuromuscular disease. *Acta neuropathologica communications*, 11(1), 90.