

Resource Summary Report

Generated by [kravitz2](#) on Aug 2, 2026

LE-Cyfp1^{em1Sage+/-}

RRID:RGD_14985210

Type: Organism

Proper Citation

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Organism Information

URL: <https://rgd.mcw.edu/rgdweb/report/strain/main.html?id=14985210>

Proper Citation: RRID:RGD_14985210

Description: Rattus norvegicus with name LE-Cyfp1^{em1Sage+/-} from RGD.

Species: Rattus norvegicus

Notes: The bioinformatics software (Horizon Discovery, St. Louis, USA) was used to design a short guide RNA (sgRNA) targeting a Protospacer Adjacent Motif (PAM) sequence within exon 7 of the rat Cyfp1 gene (GGCAGATCCACAATCCATCCagg) on chromosome 1 (first 21 of 32 exons, Refseq: NC_005100.4, NM_001107517.1). sgRNA-Cas9 was performed by nucleofecting the sgRNA-Cas9 into rat C6 glial cells. Genomic DNA (gDNA) PCR products were subsequently generated from nucleofected C6 cells using primers flanking the sgRNA site (FOR: GCCAAAGCTTCCCCTAAAGT; REV: TGGGCGTCAAGTACATTCTG; 497bp amplicon). Embryos were collected from donor female Long Evans rats and injected with the validated sgRNA-Cas9. Then implanted into synchronized pseudopregnant Long Evans recipient female. This mutant carries 4bp out of frame heterozygous deletion in exon 7 of the Cyfp1, resulting bioinformatics prediction of an early stop codon in exon 8.

Catalog Number: 14985210

Background: mutant

Database: Rat Genome Database (RGD)

Database Abbreviation: RGD

Availability: Unknown

Alternate IDs: 14985210

Organism Name: LE-Cyfp1^{em1Sage+/-}

Record Creation Time: 20230509T191951+0000

Record Last Update: 20260801T194048+0000

Ratings and Alerts

No rating or validation information has been found for LE-*Cyfp1^{em1Sage}+/-*.

No alerts have been found for LE-*Cyfp1^{em1Sage}+/-*.

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.