

STOCK *Gt(ROSA)26Sor^{tm1.1(CAG-EGFP)^{Fsh}}* /MmjaxMMRRC Stock No: **32037-JAX** | RCE:loxP Targeted Mutation

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These RCE:loxP mice harbor the R26R CAG-boosted EGFP (RCE) reporter allele with a *loxP*-flanked STOP cassette upstream of the enhanced green fluorescent protein (EGFP) gene. After removal of the *loxP*-flanked STOP cassette by *cre*-mediated recombination, EGFP reporter expression is directed to the cells/tissues dependent upon expression pattern of the promoter driving Cre recombinase.

Donating Investigator

Gord Fishell, Harvard Medical School

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GENETIC OVERVIEW**Genetic Background****Generation***Gt(ROSA)26Sor^{tm1.1(CAG-EGFP)^{Fsh}}***Allele Type**

Targeted (Conditional ready (e.g. floxed), Reporter)

Gene Symbol*Gt(ROSA)26Sor***Gene Name**

gene trap ROSA 26, Philippe Soriano

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Neurobiology Research

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Details

Detailed Description

Mice homozygous for the R26R CAG-boosted EGFP (RCE) reporter allele harboring a *loxP*-flanked STOP cassette (RCE:loxP) are viable and fertile. Under control of the endogenous *Gt(ROSA)26Sor* promoter/enhancer regions and the CMV-IE enhancer/chicken beta-actin/rabbit beta-globin (CAG) hybrid promoter, widespread expression of enhanced green fluorescent protein (EGFP) is prevented by the upstream floxed-STOP cassette. After removal of the *loxP*-flanked STOP cassette by *cre*-mediated recombination, EGFP reporter expression is directed to the cells/tissues dependent upon expression of the promoter expression driving Cre recombinase.

Development

Expression Data

Selected References

Genetics

Gt(ROSA)26Sor^{tm1.1(CAG-EGFP)}Fsh

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols

Standard PCR: [Gt\(ROSA\)26Sor](#)

Probe: [Gt\(Rosa\)26Sor\(CAG\) alternate 2](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, heterozygous mice may be bred together or to wildtype mice from the colony. Homozygous mice may also be bred together.

[Additional Breeding and Husbandry Support](#)

Citation

When using the RCE:loxP mouse strain in a publication, please [cite the originating article\(s\)](#) and include MMRRC stock #32037 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, [G200](#)

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Email: TechTran@jax.org

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