STOCK Gt(ROSA)26Sor tm1.1(CAG-EGFP)Fsh /Mmjax

MMRRC Stock No: 32037-JAX | RCE:loxP

Targeted Mutation

Also Known As: RCE:loxP

These RCE:loxP mice harbor the R26R CAG boostsed 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**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tr>
<td>Gt(ROSA)26Sor tm1.1(CAG-EGFP)Fsh</td>
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**Allele Type**

<table>
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<tr>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Targeted (Reporter)</td>
<td>Gt(ROSA)26Sor</td>
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<tr>
<td>gene trap ROSA 26, Philippe Soriano</td>
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**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(CAG-EGFP)flosh}

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols
Standard PCR: Gt(Rosa)26Sor^{tm(CAG)}
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 mouse strain in a publication, please cite the originating article(s) and include MMRRC stock #32037 in your Materials and Methods section.
Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

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By Allele

By Gene

By Collection

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