129S4/SvJaeSor-Gt(ROSA)26Sor<sup>tm1(FLP1)Dym</sup>/J

Stock No: 003946 | ROSA26::FLPe knock in

Targeted Mutation

Also Known As: ROSA26::FLPe knock in

FLPeR mice harbor the FLPe knock-in allele with widespread expression of the FLPe variant of the Saccharomyces cerevisiae FLP1 recombinase gene driven by the Gt(ROSA)26Sor promoter. When bred with mice containing a frt-flanked sequence of interest, FLP-mediated recombination will result in deletion of the frt-flanked sequences(s) in the offspring. This FLP deleter strain may be useful for generating frt-FLP conditional mutations and serves as a source of FLP1-expressing primary cell lines.

Donating Investigator

Susan M Dymecki, Harvard Medical School

Genetic Background | Generation
---|---
?+F41 | (2019-03-04 00:00:00)

Gt(ROSA)26Sor<sup>tm1(FLP1)Dym</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tr>
<td>Targeted (Recombinase-expressing)</td>
<td>Gt(ROSA)26Sor</td>
<td>gene trap ROSA 26, Philippe Soriano</td>
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Research Tools
Details

Detailed Description

Homozygous FLPeR mice are viable and fertile, with widespread expression of the FLPe variant of the Saccharomyces cerevisiae FLP1 recombinase gene driven by the Gt(ROSA)26Sor promoter. The FLPe recombinase variant exhibits enhanced thermostability with recombination activity being four-fold and ten-fold that of wild type FLP at 37°C and 40°C, respectively. The Gt(ROSA)26Sor promoter drives expression from preimplantation onward and extensive target gene recombination can be achieved in most tissue types, including cells of the developing germ line. The knock-in construct also includes a neomycin resistance gene driven by the mouse phosphoglycerate kinase promoter (PGK neo) and polyadenylation signal sequence. When bred with mice containing a frt-flanked sequence of interest, FLP-mediated recombination will result in deletion of the frt-flanked sequence(s) in the offspring. This FLP deleter strain may be useful for generating frt-FLP conditional mutations and serves as a source of FLP1-expressing primary cell lines.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Gt(ROSA)26Sor<sup>tm1(FLP1)0ym</sup>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
Separated PCR: Gt(ROSA)26Soi\textsuperscript{m11FLP1}0ym

Genotyping resources and troubleshooting

Dietary Information
New Diet as of March 2015: Lab Diet\textsuperscript{®} 5K0Q (6% fat)

Breeding Considerations
When maintaining the live colony, homozygous mice may be bred together. The coat color expected from breeding is Agouti.

Additional Breeding and Husbandry Support
Mating System
Homozygote x Homozygote

Citation
When using the ROSA26SF1FLP knock in mouse strain in a publication, please cite the originating article(s) and include JAX stock #003946 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

AX10 (Standard)

Pricing & Availability
Available

Live mice available in varying quantities. Ask Customer Service for details.

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<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
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Related Strains

- All
- By Allele
- By Gene
- By Collection

All Related Strains