B6.129X1-Gt(ROSA)26Sor tm1[EYFP]Cts/J

Stock No: 006148 | R26R-EYFP

Green Congenic, Targeted Mutation

AVAILABLE NOW

PLACE ORDER

Live mice available in varying quantities. Ask Customer Service for details.
Also Known As: R26R-EYFP

These R26R-EYFP mutant mice have a loxP-flanked STOP sequence followed by the Enhanced Yellow Fluorescent Protein gene (EYFP) inserted into the Gt(ROSA)26Sor locus. When bred to mice expressing Cre recombinase, the STOP sequence is deleted and EYFP expression is observed in the cre-expressing tissue(s) of the double mutant offspring. These mutant mice may be useful in monitoring the Cre expression in living tissues, and tracing the lineage of such cells in embryos, young, and adult mice at desired time points.

Donating Investigator

Frank Costantini, Columbia University Medical Center
Details

Detailed Description

Mice that are homozygous for the R26-stop-EYFP mutant allele are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. These mice contain an Enhanced Yellow Fluorescent Protein gene (EYFP) inserted into the Gt(Rosa)26Sor locus. Expression of EYFP is blocked by an upstream loxP-flanked STOP sequence. When bred to mice with a cre recombinase gene under the control of a promoter of interest, the STOP sequence of the targeted gene is deleted in the tissue of interest, and EYFP expression is observed. These mutant mice may be useful in monitoring the Cre expression in living tissues, and tracing the lineage of such cells in embryos, young, and adult mice at desired time points.

These R26-stop-EYFP have also been used as a fluorescent reporter by the Allen Institute for Brain Science. For their characterization information, see images at the Allen Institute for Brain Science website (R26-stop-EYFP images).

Mutant mice maintained on a genetic background containing a contribution from C57BL/6J have the potential to harbor a loss-of-function mutation in the nicotinamide (NAD) nucleotide transhydrogenase gene (Nnt, Chromosome 13). This Nnt mutation arose spontaneously in C57BL/6J sometime prior to 1984. It has been confirmed that this strain (Stock No. 006148) is homozygous for the Nnt mutant allele.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Gt(Rosa)26Sor^{tm(EYFP)}c58

Disease/Phenotype

Disease Terms
Genotyping Protocols
MELT: Generic Rosa26 SorGFP
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, these mice are bred as homozygotes.

Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Citation
When using this ROSA26 SorGFP mouse strain in a publication, please cite the originating articles and include JAX stock #006148 in your Materials and Methods section.

Facility Barrier Level Descriptions
AX12 (Maximum)

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

<p>|Live Mouse| Pricing effective for USA, Canada and Mexico shipping destinations|</p>
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<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
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