

B6;129P2-Gt(ROSA)26Sor^{tm1(CAG-ALPP)Fawa}/J

Stock No: 010523

 Gene Trap, Targeted Mutation

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

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inserted into the *Gt(ROSA)26Sor* locus. Expression of the *ALPP* gene is blocked by a *loxP*-flanked STOP fragment placed between the *ALPP* sequence and the *Gt(ROSA)26Sor* promoter. This strain serves as a reporter strain, with successful Cre-mediated excision being indicated by *ALPP* expression in *cre*-expressing tissues.

Donating Investigator

Fan Wang, Duke University Medical Center

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GENETIC OVERVIEW

Genetic Background

Generation

Gt(ROSA)26Sor^{tm1(CAG-ALPP)Fawa}

Alele 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

Neurobiology Research
Research Tools

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W P R I C E L I S T

Details

Detailed Description

These mice contain "STOP-hPLAP", the human alkaline phosphatase, placental (Regan isozyme), *ALPP*, gene under the control of the CAG (chicken beta actin promoter/enhancer and cytomegalovirus immediate-early enhancer) promoter, inserted into the *Gt(ROSA)26Sor* locus. Expression of the *ALPP* gene is blocked by a *loxP*-flanked STOP fragment placed between the *ALPP* sequence and the *Gt(ROSA)26Sor* promoter. In the absence of Cre recombinase, no ALPP staining is detected in all tissues examined so far including the central and peripheral nervous system, skin, muscle, lung and heart. This strain serves as a reporter strain, with successful Cre-mediated excision being indicated by *ALPP* expression in *cre*-expressing tissues. Mice that are homozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. This mutant mouse strain may be useful in studies of cell lineage tracing, and is particularly useful for labeling and tracing the morphology of neurons because ALPP is a GPI-anchored membrane protein that is transported and expressed on the membrane of axons and dendrites of neurons.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Gt(ROSA)26Sor^{tm1(CAG-ALPP)}Fawa

Disease/Phenotype

[+ Disease Terms](#)

[+ Research Areas By Phenotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

[- Technical Support](#)

C O N T A C T T E C H N I C A L S U P P O R T

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, these mice can be bred as homozygotes.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6;129P2-*Gt(ROSA)26Sor^{tm1(CAG-ALPP)Fawa}*/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #010523 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](#)

[- Pricing & Availability](#)



Cryo
Recovery

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous for Gt(ROSA)26Sor<tm1(CAG-ALPP)Fawa>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6;129P2-Gt(ROSA)26Sor<tm1(CAG-ALPP)Fawa>/J Frozen Embryo	\$2595.00
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All

By Allele

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