C57BL/6-Tg(UBC-GFP)30Scha/J

Stock No: 004353 | UBI-GFP

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PLACE ORDER

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Overview
Also Known As: B6-GFP, B6-EGFP, B6.GFP, UBI-GFP
These transgenic mice express enhanced Green Fluorescent Protein (GFP) under the direction of the human ubiquitin C promoter in all tissues examined. Certain hematopoietic cell types display distinct expression levels of GFP, allowing identification of different cell types by FACS analysis. This mutant mouse strain represents a useful tool in studies related to hematopoietic cell differentiation and in vivo tracking of leukocytes.

Donating Investigator
Brian C. Schaefer, Uniformed Services Univ. Health Sciences

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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Tg(UBC-GFP)30Scha

Allele Type
Transgenic (Reporter)

RESEARCH APPLICATIONS
Research Tools
Details

Detailed Description

These transgenic mice express enhanced Green Fluorescent Protein (GFP) under the direction of the human ubiquitin C promoter. Mice homozygous for the transgene are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. These mice express GFP in all tissues examined. Certain hematopoetic cell types display distinct expression levels of GFP, allowing identification of different cells types by FACS analysis. GFP expression is uniform within a cell type lineage and remains constant throughout development. T cells have a 2-fold higher GFP expression than CD19^{-}B220^{-} B cells or peripheral blood cells. Leukocytes and red blood cells from homozygous mice fluoresce at approximately twice the level of cells from hemizygous mice. This mutant mouse strain represents a useful tool in studies related to hematopoetic cell differentiation and in vivo tracking of leukocytes.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(UBC-GFP)30Scha

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References
Genotyping Protocols
- QPCR: Fluorescent Proteins -- Generic GFP
- Standard PCR: Fluorescent Proteins (Generic GFP)
- Genotyping resources and troubleshooting

Dietary Information
- LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

This strain is a good breeder.
This strain originated on a C57BL/6 background and is maintained as a homozygote. Coat color expected from breeding: Black

Additional Breeding and Husbandry Support

Mating System
- Homozygote x Homozygote

Citation
When using this strain in a publication, please cite the originating article(s) and include JAX stock #004353 in your Materials and Methods section.

Animal Health Reports
- AX1 (Standard)
- AX6 (Standard)

Pricing & Availability
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<thead>
<tr>
<th>AGE</th>
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