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

Stock No: 004353 | UBI-GFP

Coisogenic, Transgenic

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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 cells 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

Tg(UBC-GFP)30Scha

Allele Type
Transgenic (Reporter)

RESEARCH APPLICATIONS
Research Tools
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 hematopoietic cell types display distinct expression levels of GFP, allowing identification of different cell 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 hematopoietic cell differentiation and in vivo tracking of leukocytes.
Genotyping Protocols
QPCR: GFP(QPCR)
Probe: Generic GFP
Standard PCR: Generic GFP
Genotyping resources and troubleshooting

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 the UBI-GFP mouse strain in a publication, please cite the originating article(s) and include JAX stock #004353 in your Materials and Methods section.

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<th>AGE</th>
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<td>Homozygous for Tg(UBC-GFP)30Scha</td>
<td>$183.17</td>
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