C57BL/6-Tg(CAG-EGFP)10sb/J

Stock No: 003291 | B6 ACTb-EGFP

Transgenic

AVAILABLE NOW

PLACE ORDER

Sized to accommodate orders of up to 10 or more with age range. Ask Customer Service for details.
Also Known As: B6-GFP, B6.GFP, B6-EGFP, B6 ACTb-EGFP

This transgenic mouse line, with an "enhanced" GFP (EGFP) cDNA under the control of a chicken beta-actin promoter and cytomegalovirus enhancer, have widespread EGFP fluorescence, with the exception of erythrocytes and hair.

Donating Investigator

Dr. Masaru Okabe, Osaka University

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
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Tg(CAG-EGFP)10sb

Allele Type

Transgenic (Reporter)

RESEARCH APPLICATIONS

Research Tools

VIEW ALL RESEARCH APPLICATIONS
This transgenic mouse line, with an "enhanced" GFP (EGFP) cDNA under the control of a chicken beta-actin promoter and cytomegalovirus enhancer, have widespread EGFP fluorescence, with the exception of erythrocytes and hair. Note that the donating investigator reports that mice homozygous for this transgene die within the first two weeks following birth.

Of note, it has been the experience at The Jackson Laboratory that Stock No. 006567 (C57BL/6-Tg[CAG-EGFP]1310sb/LeySopJ) demonstrates the highest proportion of GFP expressing cell populations in bone marrow, thymus, spleen and peripheral blood when compared to Stock No. 003291 (C57BL/6-Tg[CAG-EGFP]10sb/J) and Stock No. 007075 (CBj.B6-Tg[CAG-EGFP]10sb/J).

View the pdf document on GFP Expressing Lymphocyte Populations in C57BL/6-Tg[CAG-EGFP]10sb/J, C57BL/6-Tg[CAG-EGFP]1310sb/LeySopJ and CBj.B6-Tg[CAG-EGFP]10sb/J.
Genotyping Protocols
Probe: 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 an exceptional breeder.
This strain is maintained by mating a hemizygous carrier with a C57BL/6J mouse. Mice homozygous for this transgene are not viable.
Expected coat color from breeding: Black

Additional Breeding and Husbandry Support

Mating System
Inbred x Hemizygote

Appearance
black
Related Genotype: a/a

Citation
When using the B6-Actb-Egfp mouse strain in a publication, please cite the originating article(s) and include JAX stock #003291 in your Materials and Methods section.

Animal Health Reports

Facility Barrier Level Descriptions

Pricing & Availability

Available Now

Sized to accommodate orders of up to 10 or more with age range. Ask Customer Service for details.

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<thead>
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<th>AGE</th>
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Domestic | International
Pricing effective for USA, Canada and Mexico shipping destinations
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Terms of Use

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Phone: 207-288-6470
Email: TechTran@jax.org

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By Allele

By Gene

By Collection

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