B6.FVB-Tg(Npy-hrGFP)1Lowl/J

Stock No: 006417 | NPY-hrGFP, NPY-GFP

Congenic, Transgenic

Also Known As: NPY-hrGFP, NPY-GFP

These mice express humanized Renilla Green Fluorescent Protein (hrGFP) under control of the mouse Npy promoter. The hrGFP expressed from this transgene is more stable and resistant to signal fading compared to other GFP’s. These transgenic mice may be useful for studies of neurobiology, energy metabolism, obesity, seizures, and epilepsy.

Donating Investigator

Bradford B. Lowell, Beth Israel Deaconess Med Cntr (Harvard)

GENETIC OVERVIEW

Genetic Background  Generation

N10F9
(2018-04-30 00:00:00)

Tg(Npy-hrGFP)1Lowl

Allele Type
Transgenic (Reporter)

RESEARCH APPLICATIONS

Neurobiology Research
Research Tools

BASE PRICE
Starting at:
- $76.22 Domestic price for female
- $47.22 Domestic price for breeder pair

Details

Detailed Description
Hemizygous mice are viable and fertile. These mice express humanized Renilla Green Fluorescent Protein (hrGFP, Stratagene) under control of the mouse neuropeptide Y (Npy) promoter. As such, UV light-exposed transgenic brain tissues show GFP fluorescence patterns consistent with the (Npy) gene. The donating investigator reports that the hrGFP expressed from this transgene is more stable and resistant to signal fading compared to other GFP’s. These transgenic mice may be useful for studies of neurobiology, energy metabolism, obesity, seizures, and epilepsy.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Npy-hrGFP)1Lowl

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
Standard PCR: Tg(Npy-hrGFP)1Lowl
High Resolution Melting: Tg(Npy-hrGFP)1Lowl
Genotyping resources and troubleshooting

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

Breeding Considerations
When maintaining a live colony, hemizygous mice can be bred to wildtype siblings or C57BL/6J. Alternatively, transgenic mice may be bred together, although the phenotype of homozygous mice is not known (October 2006).

Mating System
+/+ sibling x Hemizygote

Citation

Animal Health Reports
When using the NPY-hrGFP mouse strain in a publication, please cite the originating article(s) and include JAX stock #006417 in your Materials and Methods section.

Facility Barrier Level Descriptions

 AX11 (Maximum)

Pricing & Availability
3–6 week lead time for most orders depending on quantity and age range requested

Repository Live

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<thead>
<tr>
<th></th>
<th>Domestic</th>
<th>International</th>
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<tbody>
<tr>
<td><strong>Live Mouse</strong></td>
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<tr>
<td>AGE</td>
<td>SEX</td>
<td>GENOTYPE</td>
</tr>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Hemizygous for Tg(Npy-hrGFP)1Lowl</td>
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<tr>
<td></td>
<td>Male</td>
<td>Hemizygous for Tg(Npy-hrGFP)1Lowl</td>
</tr>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Noncarrier</td>
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<tr>
<td></td>
<td>Male</td>
<td>Noncarrier</td>
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| Breeder Pair       | SEX      | GENOTYPE      | PRICE |
|--------------------|----------|---------------|
|                    | Female   | Noncarrier    | $347.22 |
|                    | Male     | Hemizygous for Tg(Npy-hrGFP)1Lowl | $347.22 |
|                    | Female   | Hemizygous for Tg(Npy-hrGFP)1Lowl | $347.22 |
|                    | Male     | Noncarrier    | $347.22 |
Related Products and Services

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<th>Product</th>
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<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
<td>$2,595.00 per straw or vial</td>
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All Related Strains