B6;129S-Tg(CAG-Bgeo,-MYC)1Saa/J

Stock No: 028284 | Z-MYC

Transgenic

CRYO RECOVERY

PLACE ORDER

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

Overview

Also Known As: Z-MYC

Z-Myc transgenic mice conditionally express human c-Myc. Widespread lacZ expression is observed except in those tissues where
Cre recombination has resulted in the human c-Myc to be expressed instead. These mice allow inducible c-Myc overexpression in specific tissues, and are useful in studying cancer.

**Donating Investigator**

Sarki A Abdulkadi, Northwestern University

**GENETIC OVERVIEW**

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<tr>
<th>Genetic Background</th>
<th>Generation</th>
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**Tg(CAG-Bgeo,-MYC)1Saa**

**Allele Type**

Transgenic (Conditional ready (e.g. floxed), Reporter, Inserted expressed sequence, Humanized sequence)

**RESEARCH APPLICATIONS**

Research Tools  
Neurobiology Research  
Cancer Research  
Cell Biology Research

**BASE PRICE**

Starting at:

$2,854.50 Domestic price  
Cryo Recovery

**Details**

**Detailed Description**

The Z-Myc transgene has a loxP-flanked β-gal STOP cassette preventing transcription of a downstream human c-Myc cDNA sequence. The donating investigator reports that prior to Cre recombinase exposure, β-galactosidase (lacZ) expression is directed to widespread tissues by the CMV-IE enhancer/chicken β-actin/rabbit γ-globin hybrid promoter, and no human c-Myc expression is observed.
When bred to mice that express Cre recombinase, offspring have the floxed -geo STOP cassette deleted in the cre-expressing tissues; resulting in expression of human c-Myc in those tissues (and continued lacZ expression in other tissues).

For example, when bred to have prostate-specific Cre recombinase expression (see Stock No. 026229), the resulting mice recapitulate various salient features of human prostate cancer. Further addition of the Pten<sup>flox</sup> (Stock Nos. 004597 / 006440) and/or p53<sup>LoxP</sup> (Stock No. 008462) alleles can be used to modify disease onset and severity.

The donating investigator reports that prior to Cre recombinase exposure, mice hemizygous for the Z-Myc transgene are viable and fertile, with no reported phenotypic abnormalities. To date (October 2015), it has not been attempted to make this strain homozygous.

Genotyping Protocols

**MELT:** Tg(CAG-Bgeo,-MYC)1Saa

Genotyping resources and troubleshooting
Breeding Considerations
When maintaining a live colony, transgenic mice may be bred with wildtype (noncarrier) mice from the colony or with C57BL/6J inbred mice (Stock No. 000664). To date (October 2015), it has not been attempted to make this strain homozygous.

Additional Breeding and Husbandry Support
Mating System
Hemizygote x Noncarrier
Noncarrier x Hemizygote

Citation
When using the T-MYC mouse strain in a publication, please cite the originating article(s) and include JAX stock #028284 in your

Animal Health Reports
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.

Domestic International
Pricing effective for USA, Canada and Mexico shipping destinations

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<th>SERVICE</th>
<th>GENOTYPE</th>
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<tr>
<td>Cryo Recovery</td>
<td>Hemizygous or Non carrier for Tg(CAG-Bgeo,-MYC)1Saa/</td>
<td>$2,854.50</td>
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We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11–14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryo recovery to establish a Dedicated Supply for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

Related Products and Services

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<th>Frozen Mouse Embryo</th>
<th>Price</th>
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<td>$2,595.00 per straw or vial</td>
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Payment Terms and Conditions
Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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Terms Of Use

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Email: TechTran@jax.org

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## Related Strains

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