



# B 6 . C g - T g ( T I E 2 G F P ) 2 8 7 S a t o / 1 J

Stock No: 004659

Congenic, Transgenic

Not Available

NOT AVAILABLE AT JAX

V I E W R E P L A C E M E N T

Please contact **Technical Support** for more information

## Overview

This strain has been discontinued. Please refer to STOCK Tg(TIE2GFP)287Sato/J Stock No. [003658](#).

### Donating Investigator

IMR Colony, The Jackson Laboratory

R E A D M O R E +

## GENETIC OVERVIEW

Genetic Background

Generation

# Tg(TIE2GFP)287Sato

Allele Type

Transgenic (Reporter)

V I E W   G E N E T I C S

## RESEARCH APPLICATIONS

Research Tools

Cardiovascular Research

Endocrine Deficiency Research

Developmental Biology Research

V I E W   A L L   R E S E A R C H   A P P L I C A T I O N S

### Details

#### Detailed Description

This strain expresses Green Fluorescent Protein (GFP) under the direction of the endothelial-specific receptor tyrosine kinase (*Tek*, formerly, *Tie2*) promoter. Endothelial cells expressing GFP can be visualized via fluorescent microscopy or purified by FACS. *In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.*

#### Development

#### Expression Data

#### Control Suggestions

#### Selected References

### Genetics

#### Tg(TIE2GFP)287Sato

### Disease/Phenotype

#### Disease Terms

#### Research Areas By Genotype

#### Mammalian Phenotype Terms by Genotype

## [- Technical Support](#)

C H A T   O  F L I N E

C O N T A C T   T E C H N I C A L   S U P P O R T

### Genotyping Protocols

QPCR: [Tg\(TIE2GFP\)287Sato](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

Transgenic animals on the C57BL/6J background experience a 60% mortality rate in hemizygotes with the majority of death occurring at birth. Comparatively, this same transgenic line is available from The Jackson Laboratory on a STOCK background (stock number 003658), which is not subject to problems with mortality when maintained as a homozygote. Expected coat color: black

[Additional Breeding and Husbandry Support](#)

### Mating System

Inbred x Hemizygote

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# TOMORROW'S CURES

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