

B6;CBA-Tg(H*/Olf16-GFP)11Mom/MomJ

Stock No: 007986 | MOR23 Tg line 11

 Transgenic

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Olf16 that results in an expression pattern resembling that of wild-type endogenous OLFR16 expression.

Donating Investigator

Peter Mombaerts, Max Planck Research Unit for Neurogenetics

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(H*/Olf16-GFP)11Mom

Alele Type

Transgenic (Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Developmental Biology Research
Sensorineural Research
Neurobiology Research
Research Tools

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W P R I C E L I S T

Details

Detailed Description

This transgene provides a control for that used in stocks #007980 and #007981 for investigating the promoter elements important in olfactory receptor expression. It encodes the same full coding sequence of *Olf16* with an IRES-tauGFP just after the stop codon resulting in bicistronic expression. This coding sequence is under the control of the 405 base pairs of regulatory sequence just upstream of the *Olf16* transcription start site and 9 equally spaced repeats of a mutated homeodomain binding sequence, upstream of this promoter. Each of the homeodomain sequences has two A to G mutations disrupting the binding site. These mutations in the homeobox domains reverse the massive increase in the number of cells expressing this olfactory receptor found in the transgenics with intact homeobox domains. The expression pattern for this transgenic instead resembles that of wild-type endogenous OLFR16 expression.

Development

Expression Data

Selected References

Genetics

Tg(H*/Olf16-GFP)11Mom

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

[- Technical Support](#)

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:[Fluorescent Proteins -- Generic GFP](#)

Probe:[Fluorescent Proteins \(Generic GFP\)](#)

Standard PCR:[Fluorescent Proteins \(Generic GFP\)](#)

[Genotyping resources and troubleshooting](#)

Citation

When using the MOR23 Tg line 11 mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #007986 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, [G200](#)

[- Pricing & Availability](#)



Cryo
Recovery

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CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Carrier of Tg(H*/Olf16-GFP)11Mom	\$2,854.50

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Q U E S T I O N S A B O U T T E R M S O F U S E

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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

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All

By Allele

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