

B6;CBA-Tg(H/Olfr16-taumRFP,-tauGFP)9Mom/MomJ

Stock No: 007983 | MOR23 Tg line RFP9

 Transgenic

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just upstream of the transcription start site for *Olfr16* with bicistronic expression of either an IRES-tauGFP or an IRES-tauRFP with the transgenically expressed olfactory receptor. A massive increase of olfactory receptor cells with this olfactory receptor is seen.

Donating Investigator

Peter Mombaerts, Max Planck Research Unit for Neurogenetics

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(H/Olfr16-taumRFP,-tauGFP)9Mom

Alele Type

Transgenic (Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

Research Tools

Developmental Biology Research

Sensorineural Research

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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 transgenic strain encodes two co-injected transgenes that both have 9 equally spaced repeats of the homeodomain binding sequence linked to the 405 base pairs of regulatory sequence just upstream of the transcription start site for *Olf16* driving expression of the full coding sequence of *Olf16* and either an IRES-tauGFP or an IRES-tauRFP just after the stop codon resulting in bicistronic expression of a fluorescent marker with the transgenically expressed olfactory receptor. Similar to the findings in strains bearing just one construct (see stocks #007979, #007980 and #007981) a massive increase is found in the number of cells that express the transgenic olfactory receptor, relative to the endogenous expression pattern, but the pattern of expression remains predominantly in the dorsal main olfactory epithelium. Expression of the co-injected transgenes is mutually exclusive with red and green fluorescence not found to overlap, proving that, despite an increase in the number of cells expressing these transgenes, only one olfactory receptor is expressed per olfactory sensory neuron.

Development

Expression Data

Selected References

Genetics

Tg(H/Olf16-taumRFP,-tauGFP)9Mom

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

[Genotyping resources and troubleshooting](#)

Citation

When using the MOR23 Tg line RFP9 mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #007983 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](#)

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Cryo
Recovery

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SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Carrier or Non Carrier of Tg(H/Olfr16-tau/mRFP,H/Olfr16-GFP)9Mom	\$2,854.50

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Frozen Mouse Embryo

B6;CBA-Tg(H/Olfr16-taumRFP -tauGFP)9Mom/MomJ Frozen Embryo

\$2595.00

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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

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