

Product datasheet for RG221572

OriGene Technologies, Inc.

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Olfactory Marker Protein (OMP) (NM_006189) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Olfactory Marker Protein (OMP) (NM_006189) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: OMP

Mammalian Cell Neomycin

Selection:

Vector:

pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG221572 representing NM_006189

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCGGAGGACAGCCGCAGCCGCAGCTGGACATGCCGCTGGTCCTGGACCAGGCCTGACCAGGC
AGATGCGGCTACGCGTGGAGAGCCTGAAGCAGCGCGGGGAGAAGCGCCAGGATGGGGAGAAGCTGCTGCA
GCCAGCGGAGTCTGTGTACCGCCTCAACTTCACCCAGCAGCAGCAGCGCTACAGTTCGAGCGCTGGAATGTC
GTGCTGGACAAGCCGGGCAAGGTCACCATCACAGGCACCTCGCAGAACTGGACGCCTGACCTCACCAACC
TCATGACACGCCAGCTGCTGGACCCCACTGCCATCTCTGGCGCAAGGAGCTCGGATGCCATAGATTG
GAATGAGGCCGACGCCCTGGAGTTTGGGGAGCCCTGTCGGACCTCAAGGTCATGTAC
TTCCTCGTCACCTTTGGCGAGGGTGTGGAGCCCCGCCAACCTCAAGGCCTCCGTGGTTTTTTAACCAGCTC

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG221572 representing NM_006189

Red=Cloning site Green=Tags(s)

MAEDRPQQPQLDMPLVLDQGLTRQMRLRVESLKQRGEKRQDGEKLLQPAESVYRLNFTQQQRLQFERWNV VLDKPGKVTITGTSQNWTPDLTNLMTRQLLDPTAIFWRKEDSDAIDWNEADALEFGERLSDLAKIRKVMY

FLVTFGEGVEPANLKASVVFNQL

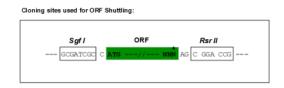
SGPTRTRRLE - GFP Tag - V

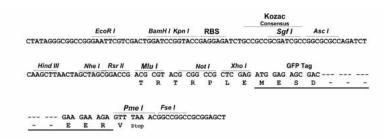
Restriction Sites: Sgfl-Rsrll



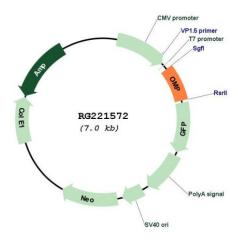


Cloning Scheme:





Plasmid Map:



ACCN: NM_006189

ORF Size: 489 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info



Olfactory Marker Protein (OMP) (NM_006189) Human Tagged ORF Clone - RG221572

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method: 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

RefSeq: <u>NM 006189.1</u>, <u>NP 006180.1</u>

 RefSeq Size:
 492 bp

 RefSeq ORF:
 492 bp

 Locus ID:
 4975

 UniProt ID:
 P47874

 Cytogenetics:
 11q13.5

Protein Families: Druggable Genome

Gene Summary: Olfactory marker protein is uniquely associated with the mature olfactory receptor neurons in

many vertebrate species from fish to man. The OMP gene structure and protein sequence are highly conserved between mouse, rat and human. Results of the mouse knockout studies show that OMP-null mice are compromised in their ability to respond to odor stimuli, and

that OMP represents a novel modulatory component of the odor detection/signal

transduction cascade. [provided by RefSeq, Jul 2008]