

Product datasheet for **SC303746**

Olfactory Marker Protein (OMP) (NM_006189) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Olfactory Marker Protein (OMP) (NM_006189) Human Untagged Clone
Tag:	Tag Free
Symbol:	OMP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC303746 representing NM_006189. Blue=Insert sequence Red=Cloning site Green=Tag(s)

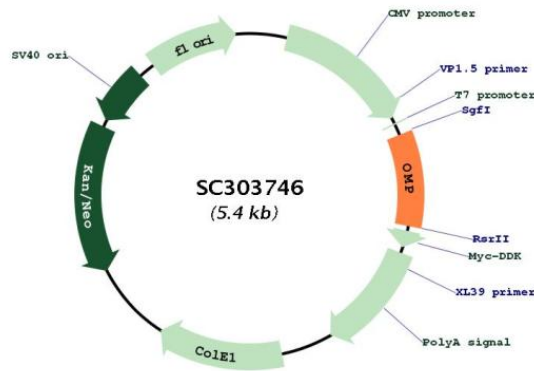
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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGGAGGACAGGCCGAGCCGAGCTGGACATGCCGCTGGTCTGGACCAGGGCCTGACCAGG
CAGATGCGGCTACGCGTGGAGAGCCTGAAGCAGCGCGGGGAGAAGCGCCAGGATGGGGAGAAGCTGCTG
CAGCCAGCGGAGTCTGTGTACCGCCTCAACTTCACCCAGCAGCAGCGGCTACAGTTCGAGCGCTGGAAT
GTCGTGCTGGACAAGCCGGGCAAGGTCACCATCACAGGCACCTCGCAGAAGTGGACGCCTGACCTCACC
AACCTCATGACACGCCAGCTGCTGGACCCCACTGCCATCTTCTGGCGCAAGGAGGACTCGGATGCCATA
GATTGGAATGAGGCCGACGCCCTGGAGTTTGGGGAGCGCCTGTGGACCTGGCCAAGATCCGCAAGGTC
ATGTACTTCTCGTCACCTTTGGCGAGGGTGTGGAGCCCACCACTCAAGGCCTCCGTGGTTTTTAAC
CAGCTCTGA
AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGAT
ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA
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Restriction Sites: SgfI-RsrII



[View online »](#)

Plasmid Map:



ACCN:	NM_006189
Insert Size:	492 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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: [NM_006189.1](#)

RefSeq Size: 492 bp

RefSeq ORF: 492 bp

Locus ID: 4975

UniProt ID: [P47874](#)

Cytogenetics: 11q13.5

Protein Families: Druggable Genome

MW: 18.9 kDa

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]