

## Product datasheet for RC224560

### OR5M8 (NM\_001005282) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OR5M8 (NM_001005282) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR5M8
Synonyms:	OR11-194
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224560 representing NM_001005282 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGAAGAACTGCACGTTGGTGACTGAGTTCATTCTCCTGGGACTGACCAGTCGCCGGGAATTACAAA  
TTCTCCTTTCACGCTGTTTCTGGCCATTTACATGGTCACGGTGGCAGGGAACCTTGGCATGATTGTCT  
CATCCAGGCCAACGCCTGGCTCCACATGCCCATGACTTTTTCTGAGCCACTTATCCTTCGTGGATCTG  
TGCTTCTCTCAATGTGACTCCAAAGATGCTGGAGATTTTCTTTCAGAGAAGAAAAGCATTTCCTATC  
CTGCCTGTCTTGTGCAGTGTACCTTTTTATCGCCTTGGTCCATGTTGAGATCTACATCCTGGCTGTGAT  
GGCCTTTGACCGGTACATGGCCATCTGCAACCCTCTGCTTATGGCAGCAGAATGTCCAAGAGTGTGTGC  
TCCTTCCTCATCACGGTGCCTTATGTGTATGGAGCGCTCACTGGCCTGATGGAGACCATGTGGACCTACA  
ACCTAGCCTTCTGTGGCCCAATGAAATTAATCACTTCTACTGTGCGGACCCACCACTGATTAAGCTGGC  
TTGTTCTGACACCTACAACAAGGAGTTGCAATGTTTATTGTGGCTGGCTGGAACCTTTCTTTTCTCTC  
TTCATCATATGTATTTCTACCTTTACATTTTCCCTGCTATTTTAAAGATTGCTCTACAGAGGGCAGGC  
AAAAAGCTTTTCTACCTGTGGCTCCCATCTGACAGCTGCACATATTTCTATGCAACCTTTTCTTCAT  
GTATCTCAGACCCCTCAAAGGAATCTGTTGAACAGGGTAAAAATGGTAGCTGTATTTTATACCACAGTA  
ATCCCTATGCTGAACCTTATAATTTATAGCCTTAGAAAATAAAAATGTAAGAAGCATTAAATCAAAGAGC  
TGTCATGAAGATATACTTTTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC224560 representing NM\_001005282  
Red=Cloning site Green=Tags(s)

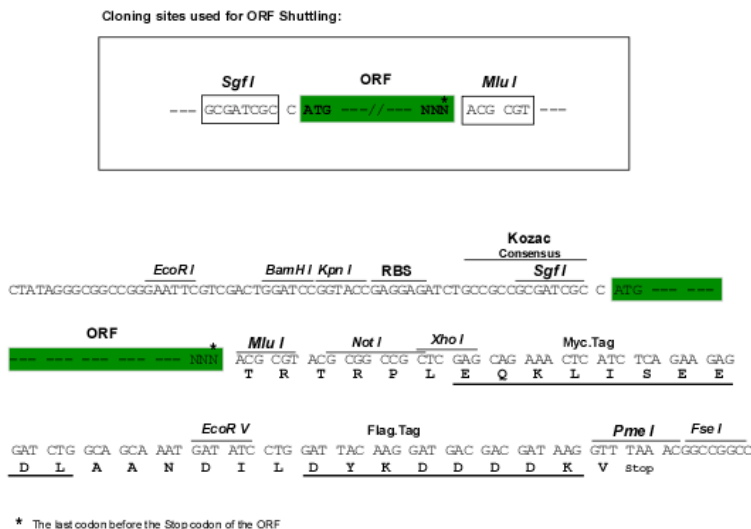
MRRNCTLVTEFILLGLTSRRELQILLFTLFLAIYMVTVAGNLGMIVLIQANAWLHMPMYFFLSHLSFVDL  
 CFSSNVTPKMLEIFLSEKKSISYPAQLVQCYLEIALVHVEIYLAVMAFDRYMAICNPLL YGSRMSKSVC  
 SFLITVPVYVYALGLMETMWTYNLAFCEPNEINHFCADPLIKLACSDTYNKLSEMFIVAGWNLFSFL  
 FIICISYLYIFPAILKIRSTEGRQKAFSTCGSHLTAVTIFYATLFFMYLRPPSKESVEQGMVAVFYTTV  
 IPMLNLIYSLRNKNVKEALIKELSMKIYFS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8003\\_f10.zip](https://cdn.origene.com/chromatograms/mk8003_f10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001005282

**ORF Size:** 933 bp

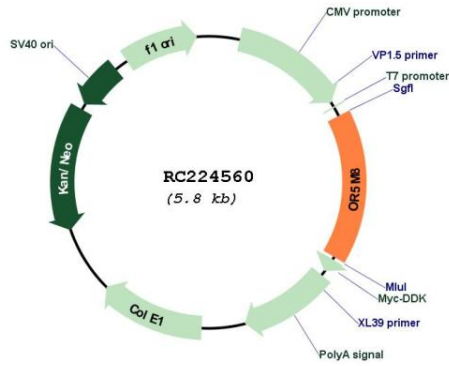
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001005282.1</a></u> , <u><a href="#">NP_001005282.1</a></u>
<b>RefSeq Size:</b>	936 bp
<b>RefSeq ORF:</b>	936 bp
<b>Locus ID:</b>	219484
<b>UniProt ID:</b>	<u><a href="#">Q8NGP6</a></u>
<b>Cytogenetics:</b>	11q12.1
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Olfactory transduction
<b>MW:</b>	35.4 kDa
<b>Gene Summary:</b>	Olfactory receptors interact with odorant molecules in the nose, to initiate a neuronal response that triggers the perception of a smell. The olfactory receptor proteins are members of a large family of G-protein-coupled receptors (GPCR) arising from single coding-exon genes. Olfactory receptors share a 7-transmembrane domain structure with many neurotransmitter and hormone receptors and are responsible for the recognition and G protein-mediated transduction of odorant signals. The olfactory receptor gene family is the largest in the genome. The nomenclature assigned to the olfactory receptor genes and proteins for this organism is independent of other organisms. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC224560