

## Product datasheet for RC217837

### OR5B12 (NM\_001004733) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OR5B12 (NM_001004733) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR5B12
Synonyms:	OR5B12P; OR5B16; OR11-241; OST743
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217837 representing NM_001004733 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGAACAACACAGAGGTGACTGAATTCATCCTTGTTGGGGTAACTGATGACCCAGAAGTGCAGATCC  
CACTCTTCATAGTCTTCCTTTTCATCTACCTCATCACTCTGGTTGGGAACCTGGGGATGATTGAATTGAT  
TCTACTGGACTCCTGTCTCCACACCCCATGTACTTCTCCTCAGTAACCTCTCCCTGGTGGACTTTGGT  
TATTCCTCAGCTGTCACTCCAAGGTGATGGTGGGGTTTCTCACAGGAGACAAATTCATATTATATAATG  
CTTGTCACACAATTCTTCTTTGTAGCCTTATCACTGCAGAAAGTTTCTCCTGGCATCAATGGC  
CTATGACCGCTATGCAGATTGTGTAACCCCTGCATTACACCACCACCATGACAACAAATGTATGTGCT  
TGCCCTGGCCATAGGCTCCTACATCTGTGGTTTCTGAATGCATCCATTACTACTGGGAACACTTTTCAGGC  
TCTCCTCTGTAGATCCAATGTAGTTGAACACTTTTTCTGTGATGCTCCTCCTCTTTGACTCTCTCATG  
TTCAGAACACTACATCAGTGAGATGGTTATTTTTTTGTGGTGGGATTCAATGACCTTTTTCTATCCTG  
GTAATCTTGATCTCCTACTTATTTATATTTATCACCATCATGAAGATGCGCTCACCTGAAGGACGCCAGA  
AGGCCTTTTCTACTTGTGCTTCCACCTTACTGCAGTTTCCATCTTTTATGGGACAGGAATCTTTATGTA  
CTTACGACCTAACTCCAGCCATTTATGGGCACAGACAAAATGGCATCTGTGTTCTATGCCATAGTCATT  
CCCATGTTGAATCCAATGGTCTACAGCCTGAGGAACAAAGAGGTTAAGAGTGCCTTTAAAAGACTGTAG  
GGAAGGCAAAGGCCTCTATAGGATTCATATTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC217837 representing NM\_001004733  
Red=Cloning site Green=Tags(s)

MENNTEVTEFILVGLTDDPELQIPLFIVFLFIYLITLVGNLGMIELILLDSCLHTPMYFFLSNLSLVDFG  
 YSSAVTPKVMVGF LTGDKFILYNACATQFFFFVAFITAESFLLASMAYDRYAALCKPLHYTTMTTNVCA  
 CLAIGSYICGFLNASIHTGNTFRLSFCRSNVVEHFFCDAPLLTLSCSDNYISEMVIFFVVGFNDLFSIL  
 VILISYLFIFITIMKMRSP EGRQKAFSTCASHLTAVSIFYGTGIFMYLRPNSSHFMGTDKMASVFYAIVI  
 PMLNPLVYSLRNKEVKSAFKKTVGKAKASIGFIF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8002\\_g04.zip](https://cdn.origene.com/chromatograms/mk8002_g04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001004733

**ORF Size:** 942 bp

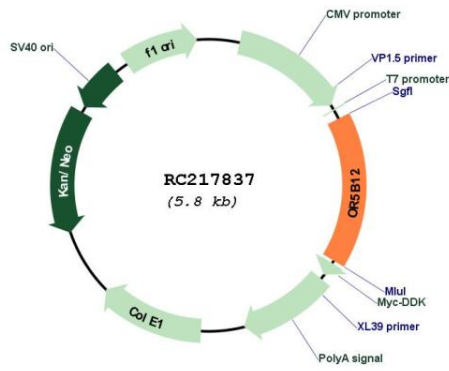
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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>NM_001004733.2</u> , <u>NP_001004733.1</u>
<b>RefSeq Size:</b>	945 bp
<b>RefSeq ORF:</b>	945 bp
<b>Locus ID:</b>	390191
<b>UniProt ID:</b>	<u>Q96R08</u>
<b>Cytogenetics:</b>	11q12.1
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Olfactory transduction
<b>MW:</b>	35 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 RC217837