

## Product datasheet for RC212184

### OR2B11 (NM\_001004492) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OR2B11 (NM_001004492) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR2B11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212184 representing NM_001004492 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAAAGTGACAACCATAGCTTCTTAGGGGACTCCCCTAAAGCCTTCATCCTTCTGGGTGTGTCTGACA  
GGCCGTGGCTGGAACCTCCTCTTTGTGGTCTCCTGCTGTCTATGTGCTGGCCATGTTGGGGAACGT  
CGCCATCATCTGGCATCCCGGGTGGATCCTCAACTCCACAGCCCATGTACATCTTCTCAGTCACCTG  
TCCTTCTGGACCTCTGCTACACCACCAGACAGTCCCTCAGATGCTGGTCAACATGGGCAGTCCCAGA  
AGACATCAGCTATGGAGGCTGCATGTGCAATATGCAGTCTTCCACTGGCTGGGATGCACGGAGTGCAT  
CGTCCTGGCCGCCATGGCCCTGGACCGCTACGTGGCCATCTGCAAGCCCTGCACTATGCCGTTCTCATG  
CACCGTGTCTCTGTGAGCAGCTCGTGGCTCTGGCCTGGCTCAGTGGCTTCGGCAACTCCTTCGTGCAGG  
TGGTCTGACGGTGCAATTGCCATTCTGCGGGCGGAGGTGCTGAACAACCTTTTCTGTGAGGTGCCGGC  
CGTGATCAAGCTGTCGTGTGCTGACACCGCTGTGAATGACACCATACTGGCTGTGCTGGTGGCCTTCTTC  
GTGTTGGTGCCCTGGCTCTCATCCTTCTCCTATGGCTTTATTGCCGGGAGTGTGCTCAGGATCCAGT  
CCTCAAGGGACGACACAAGGCCTTTGGACGTGTTCTCCACCTGATGATCGTCTCCCTTCTACCT  
ACCTGCGATTTACATGTATCTGCAGCCCTTCCAGCTACTCCCAAGAGCAGGGCAAATTTATTTCTCTC  
TTCTATTCCATAATCACCCCACTCTCAATCCCTTACCTACACCCTGAGAAATAAAGATATGAAGGGG  
CTCTGAGGAGACTTCTGGCCAGGATCTGGAGGCTCTGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC212184 representing NM\_001004492

Red=Cloning site Green=Tags(s)

MKSDNHSFLGDSPKAFILLGVSDRPWLELPLFVLLLLSYVLAMLGNVAIILASRVDPQLHSPMYIFLSHL  
SFLDLCYTTTTVPQMLVNMGSSQKTIISYGGCTVQYAVFHWLGCTECIVLAAMALDRYVAICKPLHYAVLM  
HRALCQQLVALAWLSGFGNSFVQVVLTVQLPFCGRQVLNNFFCEVPAVIKLSCADTAVNDTILAVLVAFF  
VLVPLALILLSYGFIARAVLRIQSSKGRHKAFGTCCSHLMIVSLFYLPAIYMYLQPPSSYSQEQGKFI  
FYSIITPTLNPFYTLRNKDMKGALRLLARIWRLCG

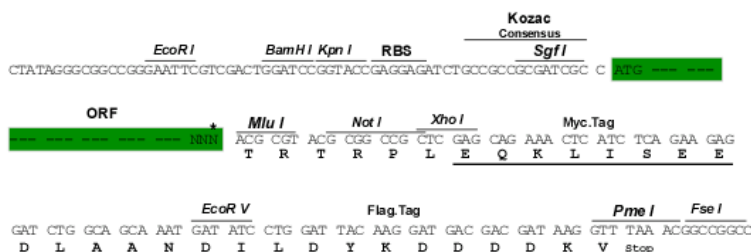
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8002\\_c12.zip](https://cdn.origene.com/chromatograms/mk8002_c12.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\_001004492

**ORF Size:** 951 bp

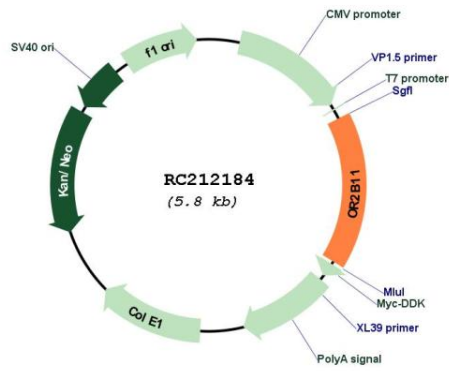
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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>	<a href="#">NM_001004492.1</a> , <a href="#">NP_001004492.1</a>
<b>RefSeq Size:</b>	954 bp
<b>RefSeq ORF:</b>	954 bp
<b>Locus ID:</b>	127623
<b>UniProt ID:</b>	<a href="#">Q5JQS5</a>
<b>Cytogenetics:</b>	1q44
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Olfactory transduction
<b>MW:</b>	35.2 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 RC212184