

## Product datasheet for **RC223386**

### OR2W3 (NM\_001001957) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OR2W3 (NM_001001957) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR2W3
Synonyms:	OR2W3P; OR2W8P; OST718
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223386 representing NM_001001957 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATGGAACCAATGGCAGCACCCAAACCCATTTTCATCCTACTGGGATTCTCTGACCGACCCCATCTGG  
AGAGGATCCTCTTTGTGGTCATCCTGATCGCGTACCTCCTGACCCTCGTAGGCAACACCACCATCATCCT  
GGTGTCCCGGCTGGACCCACCTCCACACCCCATGTACTTCTCCTCGCCACCTTTCCTTCTGGAC  
CTCAGTTTACCACCAGCTCCATCCCCAGCTGCTCTACAACCTTAATGGATGTGACAAGACCATCAGCT  
ACATGGGCTGTGCCATCCAGCTTCTCCTGTTCTGGGCTGGGTGGTGGAGTGCCTGCTTCTGGCTGT  
CATGGCCTATGACCGGTGTGGCTATCTGCAAGCCCCTGCACTACATGGTGATCATGAACCCAGGCTC  
TGCCGGGGCTTGGTGTCAGTGACCTGGGCTGTGGGTGGCCAACCTCCTTGGCCATGTCTCCTGTGACCC  
TGCGCTTACCCCGCTGTGGGCACACGAGGTGGACCATTCTCCTGCGTGAGATGCCCGCCCTGATCCGGAT  
GGCCTGCGTCAGCACTGTGGCATCGAAGGCACCGTCTTTGTCTGGCGGTGGGTGTTGTGCTGTCCCC  
TTGGTGTTCCTGCTCTTTACAGCTACATTGTGAGGGCTGTGTTACAAATTCGGTCAGCATCAGGAA  
GGCAGAAGGCCTTCGGCACCTGCGGCTCCCATCTCACTGTGGTCTCCCTTTTCTATGAAACATCATCTA  
CATGTACATGCAGCCAGGAGCCAGTTCTTCCCAGGACCAGGCCATGTTCCCTCATGCTCTTCTACAACATT  
GTCACCCCTCCTCAATCCTCTCATCTACACCTCAGAAACAGAGAGGTGAAGGGGCACTGGGAAGGT  
TGCTTCTGGGAAGAGAGAGCTAGGAAAGGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC223386 representing NM\_001001957  
Red=Cloning site Green=Tags(s)

```
MDGTNGSTQTHFILLGFSDRPHLERILFVVILIAAYLLTLVGNTTIIILVSRLDPHLHTPMYFFLAHLSFLD
LSFTTSSIPQLLYNLNGCDKTI SYMGCAIQFLFLGLGGVECLLAVMAYDRCAVICKPLHYMIMNPRL
CRGLVSVTWGCGVANSLAMSPVTLRLPRCGHHEVDHFLREMPALIRMACVSTVAIEGTVFVAVGVVLSPL
LVFILLSYSYIVRAVLQIRASAGRQKAFGTCCGSHLTVVSLFYGNIIYMYMQPGASSSQDQGMFLMLFYNI
VTPLLNPLIYTLRNREVKGALGRLLLGKRELKGE
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8001\\_d12.zip](https://cdn.origene.com/chromatograms/mk8001_d12.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\_001001957

**ORF Size:** 942 bp

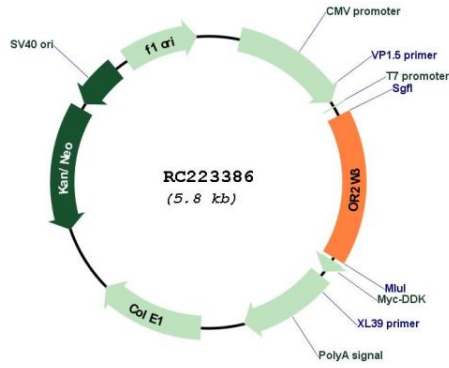
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

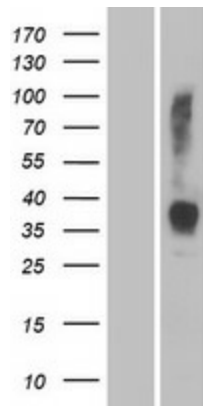
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<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><a href="#">NM_001001957.2</a></u> , <u><a href="#">NP_001001957.2</a></u>
<b>RefSeq Size:</b>	945 bp
<b>RefSeq ORF:</b>	945 bp
<b>Locus ID:</b>	343171
<b>UniProt ID:</b>	<u><a href="#">Q7Z3T1</a></u>
<b>Cytogenetics:</b>	1q44
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Olfactory transduction
<b>MW:</b>	34.6 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 RC223386



Western blot validation of overexpression lysate (Cat# [LY424290]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223386 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).