

Product datasheet for RC220565

OR2G2 (NM_001001915) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR2G2 (NM_001001915) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR2G2
Synonyms:	OR1-32
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220565 representing NM_001001915 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGATGGTGAGACATACCAATGAGAGCAACCTAGCAGGTTTCATCCTTTTAGGGTTTTCTGATTATC
CTCAGTTACAGAAGGTTCTATTTGTGCTCATATTGATTCTGTATTTACTAACTATTTGGGAATACCAC
CATCATTCTGGTTTCTCGTCTGGAACCCAAGCTTCATATGCCGATGTATTTCTCCTTTCTCATCTCTCC
TTCTGTACCGCTGCTTACCAGCAGTGTATTCCCAGCTCCTGGTAAACCTGTGGGAACCCATGAAAA
CTATCGCCTATGGTGGCTGTTTGGTTACCTTTACAACCTCCATGCCCTGGGATCCACTGAGTGCCTCCT
CCGGCTGTGATGCTGTGACCCTATGTGGCTGTGCGCTCCTCATTACACTGTCTTAATGCAT
ATCCATCTCTGCATGGCCTTGGCATCTATGGCATGGCTCAGTGAATAGCCACCACCTGGTACAGTCCA
CCCTCACCTGCAGCTGCCCTTCTGTGGGCATCGCCAAGTGGATCATTTCATCTGCGAGGTCCCTGTGCT
CATCAAGCTGGCTTGTGTGGCACCACGTTAACGAGGCTGAGCTTTTGTGGCTAGTATCCTTTTCCTT
ATAGTGCCTGTCTCATTATCCTGGTCTCCTCTGGCTACATTGCCACGCAGTGTGAGGATTAAGTCAG
CTACCAGGAGACAGAAAGCATTCCGGACCTGCTTCTCCACCTGACAGTGGTACCATCTTTATGGAAC
CATCATCTTATGTATCTGCAGCCAGCCAAGAGTAGATCCAGGGACCAGGCAAGTTTGTCTCTCTTC
TACACTGTGGTAACCCGCATGCTTAACCCTCTTATTTATACCTTGAGGATCAAGGAGGTGAAAGGGGCAT
TAAAGAAAGTTCTAGCAAAGGCTCTGGGAGTAAATATTTTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC220565 representing NM_001001915
Red=Cloning site Green=Tags(s)

MGMVRHTNESNLAGFILLGFSDYPQLQKVLVFLILILYLLTILGNTTIIILVSRLEPKLHMPMYFFLSHLS
 FLYRCFTSSVIPQLLVNLWEPMKTIAYGGCLVHLYNSHALGSTECVLPVAVMSCDRYVAVCRPLHYTVLMH
 IHLCMALASMAWLSGIATTLVQSTLTLQLPFCGHRQVDHFICEVPVLIKLACVGTTFNEAELFVASILFL
 IVPVSFILVSSGYIAHAVLRIKSATRRQKAFGTCTFVVTIFVGTIIFMYLQPAKSRSRDQGFVSLF
 YTVVTRMLNPLIYTLRIKEVKGALKKVLAKALGVNII

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8001_c08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001001915

ORF Size: 951 bp

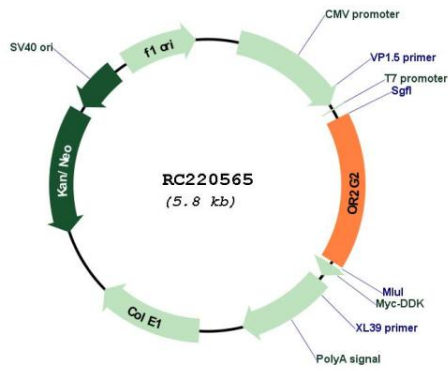
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially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

Reconstitution Method:	<ol style="list-style-type: none">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:	<u>NM_001001915.1, NP_001001915.1</u>
RefSeq Size:	954 bp
RefSeq ORF:	954 bp
Locus ID:	81470
UniProt ID:	<u>Q8NGZ5</u>
Cytogenetics:	1q44
Protein Families:	Transmembrane
Protein Pathways:	Olfactory transduction
MW:	35.4 kDa
Gene Summary:	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 RC220565