

## Product datasheet for RC210981

### OR2H3 (OR2H2) (NM\_007160) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OR2H3 (OR2H2) (NM_007160) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR2H2
Synonyms:	dj271M21.2; FAT11; hs6M1-12; OLF2R2; OLF2R42B; OR2H3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC210981 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGTTAACCAAAGCTCCACACCGGGCTTCTCTCTTCTGGGCTTCTCTGAACACCCAGGGCTGGAAAGGA  
CTCTCTTCGTGGTTGTCCTCACTTCTACCTCCTAACCCCTAGTGGGCAACACACTCATCATCTGCTGTC  
TGGCTGGACCCCAAGCTCCACTCTCCAATGTACTTTTTCTCTCCAACCTCTCCTTCTTGACCTCTGT  
TTCACCACGAGTTGTGTTCCCAAATGCTGGTCAACCTCTGGGGCCCAAAGAAGACCATCAGCTTCTGG  
ACTGCTCTGTCCAGATCTTCATCTTCTGTCCCTGGGGACAACCTGAGTGCATCCTCTTGACAGTGATGGC  
TTTTGATCGCTACGTGGCTGTCTGCCAGCCCTCCACTATGCCACCATCATCCACCCCGCCTGTGCTGG  
CAGCTGGCATCTGTGGCTGGGTCATTGGGCTAGTGGAGTCAGTGGTCCAGACACCATCCACCCTGCACC  
TGCCCTTCTGCCCGATCGGCAGGTGGATGATTTGTCTGTGAGGTCCCAGCTCTAATTCGACTCTCCTG  
TGAAGACACCTCTACAATGAGATCCAGGTGGCTGTTGCCAGTGTCTTCATCTTGTTGTGCCTCTCAGC  
CTCATCTTGTCTTTACGGAGCCATTACCTGGCAGTGTGAGGATTAACCTTGCAAAAGGGCGGAGGA  
AAGCTTTTGGACCTGCTCCTCCATCTCACTGTGGTCACCCTTCTACAGCTCAGTCATTGCTGTCTA  
CCTCCAGCCCAAAAATCCCTATGCCAAGAGAGGGCAAGTTCTTTGGTCTTCTATGCAGTGGGCAT  
CCTTCACTTAACCCTCTCATATACACCCTGAGGAACAAGGAGGTAACCAGGGCATTACAGGAGATTGCTGG  
GGAAGGAAATGGGGCTCACAAAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC210981 protein sequence  
 Red=Cloning site Green=Tags(s)

MVNSSTPGFLLLGSEHPGLERTLFVVVLTSYLLTLVGNTLIILL SALDPKLSHPMYFFLSNLSFLDLC  
 FTTSCVPQMLVNLWGPKKTISFLDCSVQIFIFLSLGTTECILLTVMAFDRYVAVCQPLHYATIIHPRLCW  
 QLASVAWVIGLVESVVQTPSTLHLPFCPDRQVDDFVCEVPALIRLSCEDTSYNEIQVAVASVFILVVPLS  
 LILVSYGAITWAVLRINSAGRRKAFGTCSHLTVVTLFYSSVIAVYLQPKNPYAQERGFGLFYAVGT  
 PSLNPLIYTLRNKEVTRAFRRLLGKEMGLTQS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

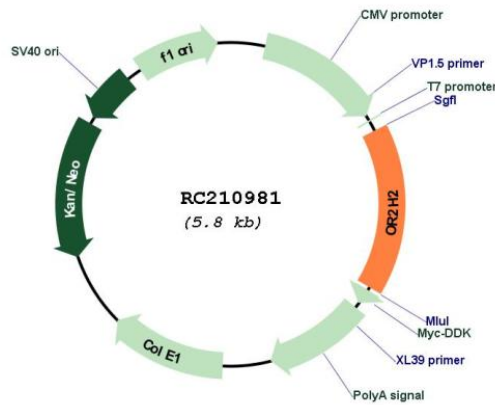
Chromatograms: [https://cdn.origene.com/chromatograms/mk6372\\_f05.zip](https://cdn.origene.com/chromatograms/mk6372_f05.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



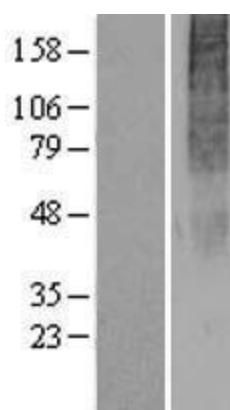
Plasmid Map:



ACCN: NM\_007160

ORF Size:	936 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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_007160.3</a> , <a href="#">NP_009091.3</a>
RefSeq Size:	1063 bp
RefSeq ORF:	939 bp
Locus ID:	7932
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Olfactory transduction
MW:	34.8 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:



Western blot validation of overexpression lysate (Cat# [LY416165]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210981 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).