OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC208475

OR2H1 (NM_030883) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR2H1 (NM_030883) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR2H1
Synonyms:	6M1-16; dJ994E9.4; HS6M1-16; OLFR42A-9004-14; OLFR42A-9004.14/9026.2; OR2H6; OR2H8; OR6-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC208475 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTTAACCAAAGCTCCCCCATGGGCTTCCTCCTTCTGGGCTTCTCTGAACACCCAGCACTGGAAAGGA
CTCTCTTTGTGGTTGTCTTCACTTCCTACCTCTTGACCCTGGTGGGCAACACACTCATCATCCTGCTGTC
TGTACTGTACCCCAGGCTCCACTCTCCAATGTACTTTTTCCTCTCTGACCTCTCCTTCTTGGACCTCTGC
TTTACCACAAGTTGTGTCCCCCAGATGCTGGTCAACCTCTGGGGCCCAAAGAAGACCATCAGCTTCCTGG
GATGCTCTGTCCAGCTCTTCATCTTCCTGTCCCTGGGGACCACTGAGTGCATCCTCCTGACAGTGATGGC
CTTTGACCGATACGTGGCTGTCTGCCAGCCCCTCCACTATGCCACCATCATCCACCCCCGCCTGTGCTGG
CAGCTGGCATCTGTGGCCTGGGTTATGAGTCTGGTTCAATCGATAGTCCAGACACCATCCACCCTCCACT
TGCCCTTCTGTCCCCACCAGCAGATAGATGACTTTTTATGTGAGGTCCCATCTCTGATTCGACTCTCCTG
TGGAGATACCTCCTACAATGAAATCCAGTTGGCTGTGTCCAGTGTCATCTTCGTGGTTGTGCCTCTCAGC
CTCATCCTTGCCTCTTATGGAGCCACTGCCCAGGCAGTGCTGAGGATTAACTCTGCCACAGCATGGAGAA
AGGCCTTTGGGACCTGCTCCTCCCATCTCACTGTGGTCACCCTCTTCTACAGCTCAGTCATTGCTGTCTA
CCTCCAGCCCAAAAATCCGTATGCCCAAGGGAGGGGCAAGTTCTTTGGTCTCTTCTATGCAGTGGGCACT
CCTTCACTTAACCCTCTCGTATACACCCTGAGGAACAAGGAGATAAAGCGAGCACTCAGGAGGTTACTAG
GGAAGGAAAGAGACTCCAGGGAAAGCTGGAGAGCTGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC208475 protein sequence
Red=Cloning site Green=Tags(s)

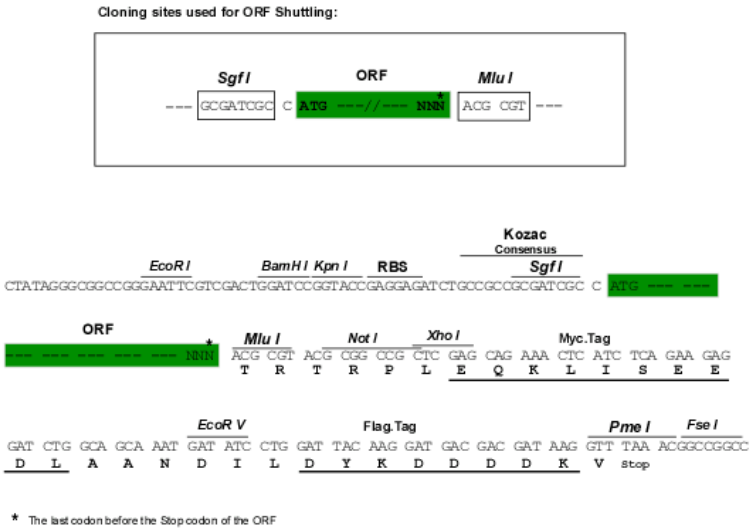
MVNQSSPMGFLLLGFSEHPALERTLFVVVFTSYLLTLVGNTLIILLSVLYPRLHSPMYFFLSDLSFLDLC
FTTSCVPQMLVNLWGPKKTISFLGCSVQLFIFLSLGTTECILLTVMAFDRYVAVCQPLHYATIIHPRLCW
QLASVAWVMSLVQSIVQTPSTLHLPFCPHQQIDDFLCEVPSLIRLSCGDTSYNEIQLAVSSVIFVVVPLS
LILASYGATAQAVLRINSATAWRKAFGTCSSHLTVVTLFYSSVIAVYLQPKNPYAQGRGKFFGLFYAVGT
PSLNPLVYTLRNKEIKRALRRLLGKERDSRESWRAA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6346_a11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_030883

ORF Size: 948 bp

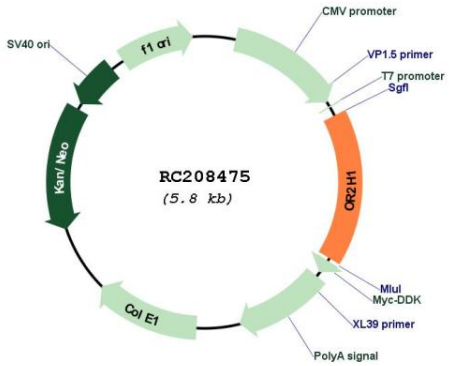
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially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

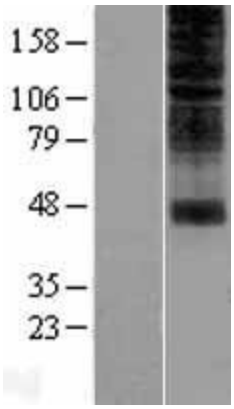
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	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:	NM_030883.4, NP_112145.1
RefSeq Size:	3009 bp
RefSeq ORF:	951 bp
Locus ID:	26716
UniProt ID:	Q9GZK4
Cytogenetics:	6p22.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Olfactory transduction
MW:	35.3 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 RC208475



Western blot validation of overexpression lysate (Cat# [LY410676]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208475 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).