

## Product datasheet for RC222879

### OR2D3 (NM\_001004684) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OR2D3 (NM_001004684) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR2D3
Synonyms:	OR11-89
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222879 representing NM_001004684 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGTTCTTTTTCTTGTGCCAACAGGTAACAGGCAAAAATCAATGGGAGAAGAAAACCAAACCT  
TTGTGTCCAAGTTTATCTTCCTGGGCTTTTACAGGACTTGCAGACCCAGATCCTGCTATTTATCCTTTT  
CCTCATCATTTATCTGCTGACCGTGCTTGGAAACCAGCTCATCATATTCTCATCTTCTGGATTCTCGC  
CTTCACACTCCCATGTATTTTTTCTTAGAAATCTCTCCTTTGCAGATCTCTGTTTCTCTACTAGCATTG  
TCCCTCAAGTGTGGTTCACCTTCTGGTAAAGAGGAAAACCATTCTTTTTATGGGTGTATGACACAGAT  
AATTGTCTTTCTTCTGGTGGGTGTACAGAGTGTGCGCTGCTGGCAGTGATGTCCTATGACCGGTATGTG  
GCTGTCTGCAAGCCCCTGTACTACTCTACCATCATGACACAACGGGTGTGTCTCTGGCTGTCTTTCAGGT  
CCTGGGCCAGTGGGGCACTAGTGTCTTTAGTAGATACCAGCTTTACTTTCCATCTTCCCTACTGGGGACA  
GAATATAATCAATCACTACTTTTGTGAACCTCCTGCCCTCTGAAGCTGGCTTCCATAGACACTTACAGC  
ACAGAAATGGCCATCTTTCAATGGCGTGGAATCCTCCTGGCCCCTGTCTCCCTGATTCTTGGTTCTT  
ATTGGAATATTATCTCCACTGTTATCCAGATGCAGTCTGGGAAGGGAGACTCAAGGCTTTTTCCACCTG  
TGGCTCCCATCTTATTGTTGTTGCTCTTCTATGGGTGAGGAATATTCACCTACATGCGACCAAACCTCC  
AAGACTACAAAAGAACTGGATAAAATGATATCTGTGTTCTATACAGCGGTGACTCCAATGTTGAACCCCA  
TAATTTATAGCTTGAGGAACAAAGATGTCAAAGGGCTCTCAGGAAACTAGTTGGGAGAAAGTGCTTCTC  
TCATAGGCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC222879 representing NM\_001004684  
Red=Cloning site Green=Tags(s)

MCSFFLCQTGKQAKISMGEENQTFVSKFIFLGLSQDLQTQILLFILFLIIYLLTVLGNQLIIILIFLDSR  
 LHTPMYFFLRNLSFADLCFSTSIVPQVLVHFLVKKRTISFYGCMTQIIVFLLVGCTECALLAVMSYDRYV  
 AVCKPLYSTIMTQRVCLWLSFRSWASGALVSLVDSFTFHLPLYWQONIINHFCPEPALLKLASIDTYS  
 TEMAIFSMGVVILLAPVSLILGSYWNIIISTVIQMQSGEGRKAFSTCGSHLIVVFLFYSGGIFTYMRPNS  
 KTTKELDKMISVFYTAVTPMLNPIIYSLRNKDKGALRKLVGKCFSHRQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8002\\_d01.zip](https://cdn.origene.com/chromatograms/mk8002_d01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001004684

**ORF Size:** 990 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\\_001004684.1](#), [NP\\_001004684.1](#)

**RefSeq Size:** 993 bp

**RefSeq ORF:** 993 bp

**Locus ID:** 120775

**UniProt ID:** [Q8NGH3](#)

**Cytogenetics:** 11p15.4

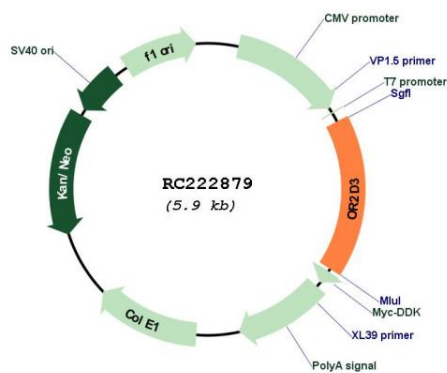
**Protein Families:** GPCR, Transmembrane

**Protein Pathways:** Olfactory transduction

**MW:** 37.3 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 RC222879