

Product datasheet for RC222297

OR8D2 (NM_001002918) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR8D2 (NM_001002918) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR8D2
Synonyms:	JCG2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222297 representing NM_001002918 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTACTTCAAACCATTTCTTCAGGGGCTGAGTTTATCCTGGCAGGCTTGACACAACGCCCAGAACTTC
AACTGCCACTCTTCCTCCTGTTCTTGAATATATGTGGTCACAGTGGTGGGAACCTGGGCATGATCTT
CTTAATTGCTCTCAGTTCTCAACTTTACCCTCCAGTGATATTTTCTCAGTCATTTGTCTTTTCATTGAT
CTCTGCTACTCCTCTGTCATTACCCTAAGATGCTGGTGAACCTTGTCCAGAGGAGAACATTATCTCCT
TTCTGGAATGCATTACTCAACTTTATTTCTTCTTATTTTGTAAATGCAGAAGGCTACCTTCTGACAGC
CATGGAATATGACCGTTATGTTGCTATCTGTCGCCCACTGCTTTACAATATTGTCATGTCCACAGGGTC
TGTTCCATAATGATGGCTGTGGTATACTCACTGGGTTTTCTGTGGCCACAGTCCATACTACCCGCATGT
CAGTGTGTCATTCTGTAGGTCTCATACGGTCAGTCATTATTTTGTGATATTCTCCCCTTATTGACTCT
GTCTTGCTCCAGCACCCACATCAATGAGATTCTGCTGTTTCATTATTTGGAGGAGTTAATACCTTAGCAACT
ACACTGGCGGTCTTATCTTTATGCTTTTCATTTCTCTAGTATCCTTGGTATTCATTCCACTGAGGGGC
AATCCAAAGCCTTGGCACTTGTAGCTCCCATCTCTGGCTGTGGGCATCTTTTTGGGTCTATAACATT
CATGTATTTCAAGCCCCCTTCCAGCACTACTATGAAAAAGAGAAGGTGTCTTCTGTGTTCTACATCACA
ATAATCCCATGCTGAATCCTCTAATCTATAGCCTGAGGAACAAGGATGTAAAAATGCACTGAAGAAGA
TGACTAGGGGAAGGCAGTCATCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC222297 representing NM_001002918
Red=Cloning site Green=Tags(s)

MATSNHSSGAEFILAGLTQRPELQLPLFLLFLGIYVVTVVGNLGMIFLIALSSQLYPPVYVYFLSHLSFID
 LCYSSVITPKMLVNFVPEENIISFLECITQLYFFLIFVIAEGYLLTAMEYDRYVAICRPLLYNIVMSHRV
 CSIMMAVVYSLGFLWATVHTTRMSVLSFCRSHTVSHYFCDILPLLLTSCSSTHINEILLFIIGGVNTLAT
 TLAVLISYAFIFSSILGIHSTEGQSKAFGTCSSHLLAVGIFFGSITFMFYFKPPSSSTMEKEKVSSVFYIT
 IIPMLNPLIYSLRNKDVKNALKKMKTRGRQSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8001_f08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001002918

ORF Size: 933 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_001002918.1](#), [NP_001002918.1](#)

RefSeq Size: 936 bp

RefSeq ORF: 936 bp

Locus ID: 283160

UniProt ID: [Q9GZM6](#)

Cytogenetics: 11q24.2

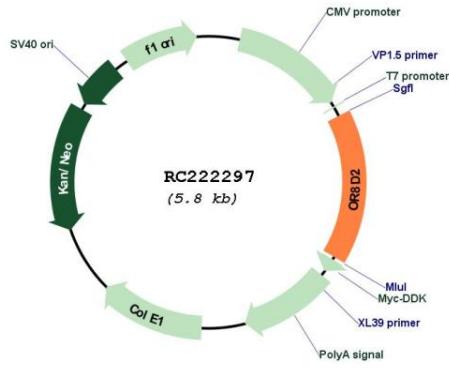
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Olfactory transduction

MW: 34.7 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. This olfactory receptor gene is a segregating pseudogene, where some individuals have an allele that encodes a functional olfactory receptor, while other individuals have an allele encoding a protein that is predicted to be non-functional. [provided by RefSeq, Jun 2015]

Product images:



Circular map for RC222297