

Product datasheet for RC222525

OR2T10 (NM_001004693) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: OR2T10 (NM_001004693) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: OR2T10
Synonyms: OR1-64
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC222525 representing NM_001004693
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCGGCTGGCCAACCAGACCCTGGTGGTGACTTTTTCTGTTGGGAATCTTCAGCCAGATCTCACACC
 CTGGCCGCTCTGCTTGCTTATCTTCAGTATATTTTGATGGCTGTGCTTGGAAATATTACATTGATACT
 TCTGATCCACATTGACTCCTCTGCATACTCCCATGACTTCTTTATAAACCAGCTCTCACTCATAGAC
 TTGACATATATTTCTGCACTGTCCCAAATGCTGGTGAACCAGCTGGCCAAAGACAAGACCATCTCGG
 TCCTTGGGTGTGGCACCAGATGACTTCTACCTGCAGTTGGGAGGTGCAGAGTGTGCCTTCTAGCCGC
 CATGGCCTATGACCGCTATGTGGCTATCTGCCATCCTCTCCGTTACTCTGTGCTCATGAGCCATAGGGTA
 TGTCTCCTCTGGCATCAGGCTGCTGGTTGTGGGCTCAGTGGATGGCTCATGCTCACTCCCATCGCCA
 TGAGCTTCCCCTTCTGCAGATCCCATGAGATTCAGCACTTCTTCTGTGAGGTCCCTGCTGTTTTGAAGCT
 CTCTTGCTCAGACACCTCACTTTACAAGATTTTCATGACTTGTGCTGTGTCATCATGCTCCTGATACCT
 GTGACGGTCATTTCAAGTGTCTTACTACTATATCATCCTCACCATCCATAAGATGAACTCAGTTGAGGGTC
 GGAAAAGGCCTTACCACCTGCTCCTCCACATTACAGTGGTCAGCCTTCTTATGGAGCTGCTATTTA
 CAACTACATGCTCCAGCTCCTACAAACTCCTGAGAAAAGATATGATGTCATCCTTTTTCTACACTATC
 CTTACACCTGTCTGAATCCTATCATTTACAGTTTCAGGAATAAGGATGTCACAAGGGCTTTGAAAAAAA
 TGCTGAGCGTGACAAAACCTCCATAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC222525 representing NM_001004693
Red=Cloning site Green=Tags(s)

MRLANQTLGGDFLLGIFSQISHPGRCLLLIFSIFLMAVSWNITLILLIHIDSSLHTPMYFFINQLSLID
 LTYISVTVPKMLVNQLAKDKTISVLGCGTQMYFYQLGGAECLLAAMAYDRYVAICHPLRYSVLMSHRV
 CLLLASGCWFVGSVDGFMLTPIAMSFPCRSEIQHFFCEVPAVLKLSGSDTSLYKIFMYLCCVIMLLIP
 VTVISVSYYYIILTIHKMNSVEGRKKAFTTCSHITVVSFLFYGAAYNYMLPSSYQTPEKDMSSFFYTI
 LTPVLNPIIYSFRNKDVTRALKKMLSVQKPPY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8002_d09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001004693

ORF Size: 936 bp

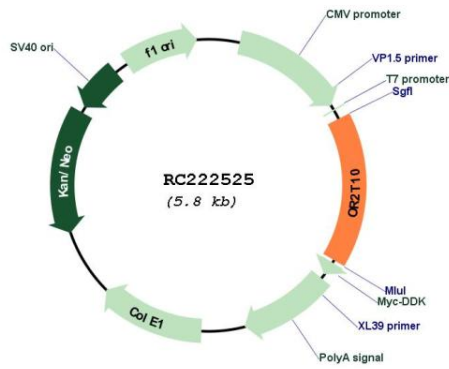
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [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:	NM_001004693.1 , NP_001004693.1
RefSeq Size:	939 bp
RefSeq ORF:	939 bp
Locus ID:	127069
UniProt ID:	Q8NGZ9
Cytogenetics:	1q44
Protein Families:	Transmembrane
Protein Pathways:	Olfactory transduction
MW:	35.2 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 RC222525