

Product datasheet for RC214796

OR10S1 (NM_001004474) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR10S1 (NM_001004474) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR10S1
Synonyms:	OR11-279
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC214796 representing NM_001004474 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTAGCCGCTCTGTGTGTGAGAAGATGACCATGACAACGGAGAACCCCAACCAGACTGTGGTGAACC
ACTTCTTCTGGAGGTTTGAGGTACACCGCTAAACATTCTAGCCTCTTCTTCTCCTCTTCTCCTCAT
CTACAGCATCACTGTGGCTGGGAATCTCCTCATCCTCCTAACTGTGGCTCTGACTCTCACCTCAGCTTA
CCCATGTACCACTTCTGGGCACCTCTCCTTCTGGATGCCTGTTTGTCTACAGTGACAGTGCCCAAGG
TCATGGCAGGCCCTGCTGACTCTGGATGGGAAGGTGATCTCCTTTGAGGGCTGTGCCGTACAGCTTTATTG
CTTCCACTTTCTGGCCAGCACTGAGTGCTTCTGTACACAGTCATGGCCTATGACCGCTATCTGGCTATC
TGTC AACCCCTGCACTACCCAGTGGCCATGAACAGAAGGATGTGTGCAGAAATGGCTGGAATCACCTGGG
CCATAGGTGCCACGCACGCTGCAATCCACACCTCCCTCACCTTCCGCCTGCTCTACTGTGGGCCTTGCCA
CATTGCCACTTCTTCTGCGACATACCCCTGTCTAAAGCTCGCCTGTACAGACACCACCATTAATGAG
CTAGTCATGCTTGCCAGCATTGGCATCGTGGCTGCAGGCTGCCTCATCCTCATCGTTATTTCTACATCT
TCATCGTGGCAGCTGTGTGCGCATCCGCACAGCCAGGGCCGGCAGCGGGCCTTCTCCCCTGCACTGC
CCAGCTCACTGGGGTCTCCTGTACTACGTGCCACCTGTCTGTATCTACCTGCAGCCTCGCTCCAGTGAG
GCAGGAGCTGGGGCCCTGCTGTCTTCTACACAATCGTAACTCCAATGCTCAACCCATTCAATTTACACTT
TGCGGAACAAGGAGGTGAAGCATGCTCTGCAAAGGCTTTTGTGCAGCAGCTTCCGAGAGTCTACAGCAGG
CAGCCACCCCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC214796 representing NM_001004474
Red=Cloning site Green=Tags(s)

MTSRVCEKMTMTTENPNQTVVSHFFLEGLRYTAKHSSLFLLFLLIYSITVAGNLLILLTVGSDSHLSL
 PMYHFLGHL SFLDACLSTVTVPKVMAGLLTLDGKVISFEGCAVQLYCFHFLASTECLFYTMAYDRYLAI
 CQPLHYPVAMNRRMCAEMAGITWAIGATHAAIHTSLTFRLLYCGPCHIAFFCDIPPVLKLACTDTTINE
 LVMLASIGIVAAGCLILIVISYIFIVA AVL RIRTAQGRQRAFSPCTAQLTGVLLYVPPVCIYLQPRSSE
 AGAGAPAVFYTIVTPMLNPFIIYTLRNKEVKHALQRLLCSSFRESTAGSPPP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8002_b09.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_001004474

ORF Size: 993 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_001004474.1](#), [NP_001004474.1](#)

RefSeq Size: 996 bp

RefSeq ORF: 996 bp

Locus ID: 219873

UniProt ID: [Q8NGN2](#)

Cytogenetics: 11q24.1

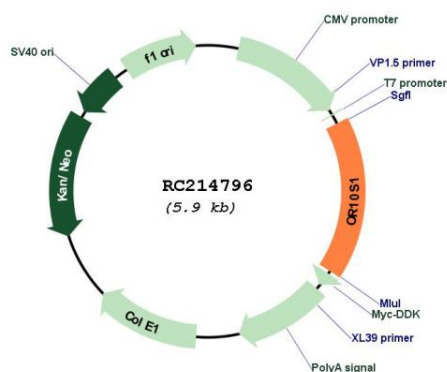
Protein Families: Transmembrane

Protein Pathways: Olfactory transduction

MW: 36.3 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 RC214796