

Product datasheet for RC216233

OR1S1 (NM_001004458) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: OR1S1 (NM_001004458) Human Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: OR1S1
 Synonyms: OR11-232; OST034
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >RC216233 representing NM_001004458
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGACTTTTAGTTCTTTCTTCAGATCGGCAGAAATATGCATCAAGGAAACCAACCACCATCACTG
 AATTCATTCTCTGGGATTTTCAAGCAGGATGAGCATCAAACCTCCTCTTTGTGCTTTCTTGGGAT
 GTACCTGGTCACTGTGATTGGGAACGGGCTCATCATTGTGGCTATCAGCTGGATACGTACCTTCATACC
 CCCATGTATCTCTCCTTGCCAATCTATCCTTTGCTGATATTTCCATTTCCAACCTCAGTCCCCAAA
 TGCTGGTGAATATCAAACCAAGAGTCAATCCATCTCTTATGAGAGCTGCATCACACAGATGTACTTTT
 TATTGTGTTTGTGCTCATTGACAATTTGCTCTTGGGGACCATGGCCTATGACCACCTTTGTGGCGATCTGC
 CACCCTCTGAATTATACAATTCTCATGCGGCCAGGTTTCGGCATTGCTCACAGTCATCTCATGTTTCC
 TCAGTAATATTATTGCTCTGACACACACCTTCTGCTCATTCAATTGCTCTTCTGTAAACCACAACACTCT
 CCCACACTTCTCTGTGACTTGGCCCTCTGCTCAAACCTGCTGTTTACACTCAGCTTCTTTTCCATGTCTGCA
 TCATCAGAGCTGCCTGAGAGTATCTCCACACAGGAAAGTGGAAAGCCTTCTCCACTTGTGGCTCTCA
 CCTGACAGTTGTATTACTGTTCTACGGAACCATGTAGGCGTGTACTTTTCCCCTCCTCCACTCACCT
 GAGGACACTGATAAGATTGGTGTCTCTATTCAGTGTGGTGCACCCATGATAAACCCCTTCATCTACA
 GCTTGAGGAATAAGGATATGAAAGGTGCCCTGAGAAAGCTCATCAATAGAAAAATTTCTCCCTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC216233 representing NM_001004458
Red=Cloning site Green=Tags(s)

MKTFSSFLQIGRNMHQGNQTTITEFILLGFFKQDEHQNLLFVFLGMYLVTVIGNGLIIVAISLDTYLHT
 PMYLFLANLSFADISSISNSVPMKMLVNIQTKSQSISYESCITQMYFSIVFVIDNLLGTMAYDHFVAIC
 HPLNYTILMRPRFGILLTVISWFLSNIIALHTLLLIQLLFCNHNTLPHFFCDLAPLLKLSGSDTLINEL
 VLFIVGLSVIIFPFTLSFFSYVCIIRAVLRVSSTQGWKAFSTCGSHLTVVLLFYGTIVGVYFFPSSTHP
 EDTDKIGAVLFTVVTPMINPFIYSLRNKDMKALRKLINRKISSL

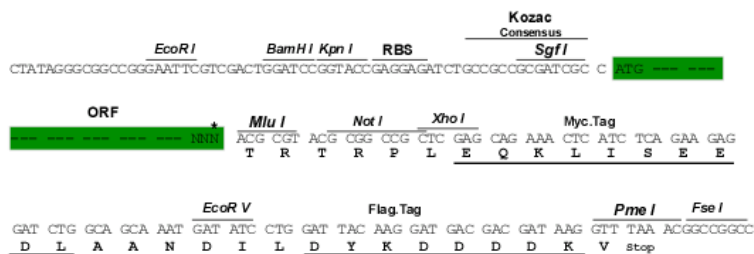
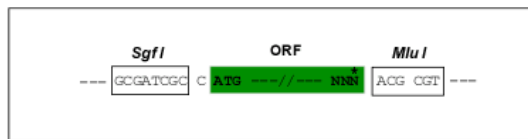
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8002_a06.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_001004458

ORF Size: 975 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_001004458.1](#), [NP_001004458.1](#)

RefSeq Size: 978 bp

RefSeq ORF: 978 bp

Locus ID: 219959

UniProt ID: [Q8NH92](#)

Cytogenetics: 11q12.1

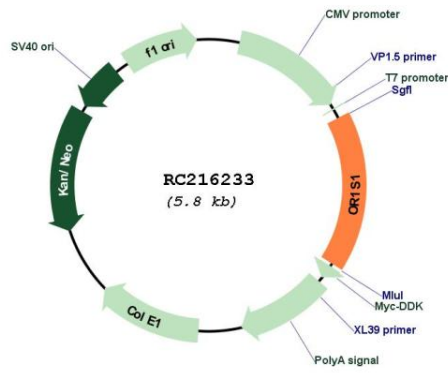
Protein Families: Transmembrane

Protein Pathways: Olfactory transduction

MW: 36.5 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 RC216233