

Product datasheet for **RC218005**

OR2Z1 (NM_001004699) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: OR2Z1 (NM_001004699) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: OR2Z1
Synonyms: OR2Z2; OR19-4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC218005 representing NM_001004699
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGGATGTGAATCAGTCGGTGGCCTCAGACTTCATTCTGGTGGCCTCTTCAGTCACTCAGGATCAC
 GCCAGCTCCTCTCTCCCTGGTGGCTGTCATGTTGTCATAGGCCTTCTGGCAACACCGTTCTTCTCTT
 CTTGATCCGTGTGGACTCCCGCTCCATACCCCATGTAATCTCTGCTCAGCCAGCTCTCCCTGTTGAC
 ATTGGCTGTCCATGGTACCATCCCCAAGATGGCATCAGACTTCTGCGGGGAGAAGGTGCCACCTCCT
 ATGGAGGTGGTGCAGCTCAAATATTCTCTCACACTGATGGGTGTGGCTGAGGGCGTCTGTTGGTCTC
 CATGCTTATGACCGTTATGTTGCTGTGTGCCAGCCCCTGCAGTATCCTGTACTTATGAGACGCCAGGTA
 TGTCTGCTGATGATGGGCTCCTCCTGGGTGGTAGGTGTGCTCAACGCCTCCATCCAGACCTCCATCACCC
 TGCATTTTCCCTACTGTGCCTCCCGTATTGTGGATCACTTCTTCTGTGAGGTGCCAGCCCTACTGAAGCT
 CTCCTGTGCAGATACCTGTGCCTACGAGATGGCGCTGTCCACCTCAGGGGTGCTGATCCTAATGCTCCCT
 CTTTCCCTCATCGCCACCTCCTACGGCCACGTGTTGCAGGCTGTTCTAAGCATGCGCTCAGAGGAGGCCA
 GACACAAGGCTGTACCACCTGCTCCTCGCACATACGGTAGTGGGGCTTTTTATGGTCCCGCGTGT
 CATGTACATGGTGCCTTGGCCCTACCACAGTCCACAGCAGGATAACGTGGTTTCCCTCTTCTATAGCCTT
 GTCACCCCTACACTCAACCCCTTATCTACAGTCTGAGGAATCCGGAGGTGTGGATGGCTTTGGTCAAAG
 TGCTTAGCAGAGCTGGACTCAGGCAAATGTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC218005 representing NM_001004699
Red=Cloning site Green=Tags(s)

MGDVNQSVASDFILVGLFSHSGSRQLLFSLVAVMFVIGLLGNTVLLFLIRVDSRLHTPMYFLLSQLSLFD
 IGCPMVTIPKMASDFLRGEGATSYGGGAAQIFFLTLMGVAEGVLLVMSYDRYVAVCQPLQYPVLMRRQV
 CLLMMGSSWVVGVLNASIQTSITLHFPYCASRIVDHFFCEVPALLKLSCADTCAYEMALSTSGVILMLP
 LSLIATSYGHVLQAVLSMRSEEARHKAVTTCSSHITVVGLFYGAAVFMYMVP CAYHSPQQDNVVSIFYSL
 VTPTLNPLIYSLRNPEVMMALVKVLSRAGLRQMC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001004699

ORF Size: 942 bp

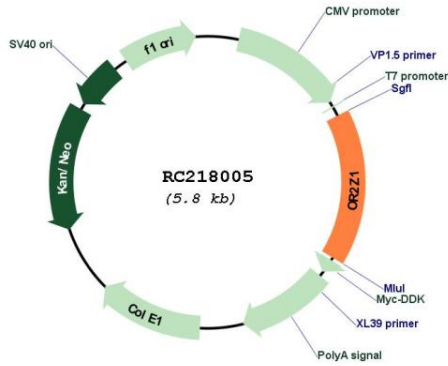
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

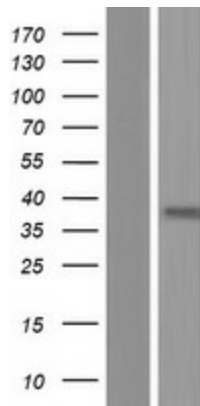
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_001004699.1 , NP_001004699.1
RefSeq Size:	945 bp
RefSeq ORF:	945 bp
Locus ID:	284383
UniProt ID:	Q8NG97
Cytogenetics:	19p13.2
Protein Families:	Transmembrane
Protein Pathways:	Olfactory transduction
MW:	34.3 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 RC218005



Western blot validation of overexpression lysate (Cat# [LY423887]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218005 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).