

Product datasheet for RC216981

OR51V1 (NM_001004760) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR51V1 (NM_001004760) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR51V1
Synonyms:	OR11-36; OR51A12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC216981 representing NM_001004760. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGTTTCTCAGTTCAGAATGATTACTTCAGTAAGCCCTAGCACCAGCACGAATTCCTTCTTCTCTC
ACTGGATTTTCTGGCATGGAGCAGCAATACCCCTGGCTTTCCATCCCCTTCTCCTCAATCTATGCCATG
GTGCTTTTGGGCAATTGCATGGTTCTCCATGTGATATGGACTGAGCCAAGCCTGCACCAGCCTATGTTT
TACTTCTGTCCATGCTGGCCCTACTGACCTGTGCATGGGGCTGTCCACTGTGTACACAGTGCTGGGG
ATCCTGTGGGGATCATTGAGAGATCAGCTTGGATTCTGCATTGCCCAGTCCTATTTCCATCCATGGT
CTGTCCTT CATGGAGTCTCTGTCTCCTCACTATGGCCTTTGACCGGTACATTGCAATTTGCAATCCA
CTACGTTATTCTCCATCCTGACTAATCCAGAATTATCAAAATTTGGGCTCACTATAATAGTAGGAGT
TTTTTCTTTATTACCCCCCATCATCTGTCTGAAATTTTTTAATTACTGTCAATTTCCACATCCTTTCT
CACTCTTTCTGCCTGCACCAGGATCTTCTCCGCTTAGCCTGTTGAGACATCCGATTCAATAGTTACTAT
GCCCTGATGCTGGTTATTTGCATACTGTTGTTGGATGCTATACTCATCCTTTTCTCCTACATCCTGATT
CTTAAGTCAGTCTGGCAGTTGCCTCTCAGGAAGAGAGGCATAAATTATTTGAGACCTGCATCTCCCAC
ATCTGTGCTGTCTTGTGTTCTACATCCCTATCATTAGCCTCACAAATGGTGCACCGTTTTGGCAAGCAC
CTTTCCCCCGTGGCCACGTTCTCATTGGCAACATCTACATCCTTTTCCACCTTTAATGAATCCCATC
ATCTACAGTGTCAAGACCAACAGATTCTACCCAGAATGCTTAGACTCTTTTCTGAAAAGATAT
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Protein Sequence: >Peptide sequence encoded by RC216981
 Blue=ORF Red=Cloning site Green=Tag(s)

MFLSSRMITSVSPSTSTNSSFLLTGFSGMEQQYPWLSIPFSSIIYAMVLLGNCMVLHVIWTEPSLHQPMF
 YFLSMLALDLCMGLSTVYTVLGLWGIIREISLDSCIAQSYFIHGLSFMESSVLLTMAFDRIAICNP
 LRYSSILNSRIKIGLTIIGRSFFFITPPIICLKFFNYCHFHLSSHFCFLHQDLLRLACSDIRFNSYY
 ALMLVICILLDAILILFSYILILKSVLAVASQEERHKLFQTCISHICAVLVFYIPIISLTMVHRFGKH
 LSPVAHVLIIGNIYILFPPLMNPPIISVKTKQIHRMLRRLFSLKRY
 TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8003_a03.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_001004760

ORF Size: 963 bp

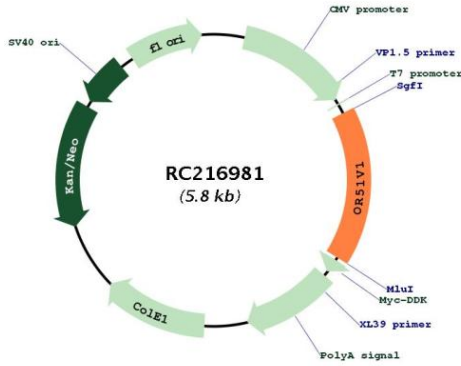
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially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

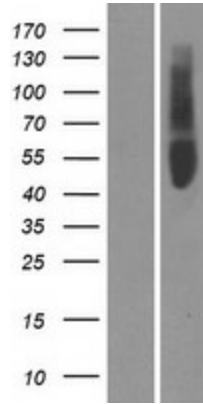
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	<u>NM_001004760.2</u> , <u>NP_001004760.2</u>
RefSeq Size:	966 bp
RefSeq ORF:	966 bp
Locus ID:	283111
UniProt ID:	<u>Q9H2C8</u>
Cytogenetics:	11p15.4
Protein Families:	Transmembrane
Protein Pathways:	Olfactory transduction
MW:	36.7 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. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC216981



Western blot validation of overexpression lysate (Cat# [LY423943]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216981 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).