

Product datasheet for RC216280

OR7C1 (NM_198944) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR7C1 (NM_198944) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR7C1
Synonyms:	CIT-HSP-146E8; HSTPCR86P; OR7C4; OR19-5; TPCR86
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC216280 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAAACAGGAAATCAAACACATGCCCAAGAATTTCTCCTCCTGGGATTTTCAGCAACGTGAGAGATTC
AGTTCATTCTCTTTGGGCTGTTCTCTCCATGTACCTAGTCACCTTTCACCGGGAACCTGCTCATCATCCT
GGCCATATGCTCAGACTCCACCTCCACACCCCATGACTTCTCCTCTCCACCTGTCTTTTGCTGAC
CTCTGTTTTACCTCCACGACTGTCCAAAGATGTTACTGAATATACTGACACAGAACAAATTCATAACAT
ATGCAGGCTGTCTCAGTCAGATTTTTTTTTTCACTTCATTTGGATGCCTGGACAATTTACTCTTGACCGT
GATGGCCTATGACCGCTTCGTGGCCATCTGTACCCCTGCACTATACGGTCATCATGAACCCCAAGCTC
TGTGGACTGCTGGTTCTGGGGTCTGGTGCATCAGTGTACGGTTCCTGCTCGAGACCTTGACTGTTT
TGAGGCTGTCCTTCTGCACAAAATGAAATTCACACTTTTTTGTGATCTACTTGAAGTCTGAAGCT
CGCCTGTTCTGACACCTTCATTAATAACGTGGTGATATACTTTGCAACTGGCGTCTGGGTGTGATTTCC
TTCAGTGAATATTTTTCTTACTATAAAATGTTTTCTATACTGAGGATTTCTCAGCTGGGAGAA
AGCACAAGCGTTTTCCACCTGTGGTCCCACCTCTCAGTGGTCACCTTGTCTATGGCACGGGCTTTGG
GGTCTATCTCAGTCTGCAGCCACACCATCTTCTAGGACAAGTCTGGTGGCCTCAGTGATGTACACCATG
GTCACCCCATGCTGAACCCCTCATCTACAGCCTGAGGAACACGGACATGAAGAGGGCCCTGGGGAGAC
TCCTCAGTAGGGCAACATTTTTTAATGGTGACATCACTGCAGGACTTTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC216280 protein sequence
Red=Cloning site Green=Tags(s)

METGNQTHAQEFLLLGFSATSEIQFILFGLFLSMYLVTFGTGNLLIILAICSDSHLHTPMYFFLSNLSFAD
 LCFTSTTVPKMLLNILTQNKFITIYAGCLSQIFFFTSFGCLDNLLLTVMAYDRFVAICHPLHYTVIMNPQL
 CGLLVLGSWCISVMGSLLETLTVLRLSFCTKMEIPHFFCDLLEVLKLACSDTFINNVVIYFATGVLGVIS
 FTGIFFSYKIVFSILRISAGRKHKAFSTCGSHLSVVTLFYGTGFGVYLSSAATPSSRSTSLVASVMTM
 VTPMLNPFIIYSLRNTDMKRALGRLLSRATFFNGDITAGLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6463_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_198944

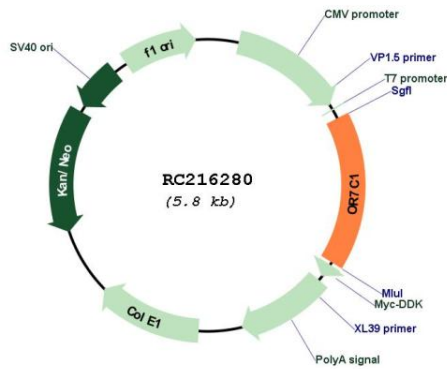
ORF Size: 960 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

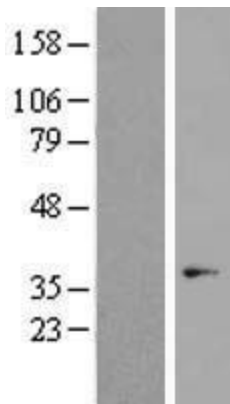
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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_198944.1 , NP_945182.1
RefSeq Size:	963 bp
RefSeq ORF:	963 bp
Locus ID:	26664
UniProt ID:	O76099
Cytogenetics:	19p13.12
Protein Families:	Transmembrane
Protein Pathways:	Olfactory transduction
MW:	35.5 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. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC216280



Western blot validation of overexpression lysate (Cat# [LY404657]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216280 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).