

Product datasheet for **RC222472**

OR10A4 (NM_207186) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: OR10A4 (NM_207186) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: OR10A4
Synonyms: JCG5; OR10A4P
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC222472 representing NM_207186
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGATGTGGGAAAACGGACAATTGTCAGTGAATTTGTTCTCGTGAGCTTCTCAGCCCTGTCCACTGAGC
TTCAGGCTCTACTGTTTCTCCTTTCTTGACCATTTACTTGGTTACTTTAATGGGCAATGCCTCATCAT
CCTGGTCACTATAGCTGACTCTGCACTACAAAGTCCTATGTACTTCTCCTCAGAACTTGCCTCCTG
GAGATAGGTTTCAACTTGGTCATTGTGCCAAGATGCTGGGACCCTGATCATTCAAGACACAACCATCT
CCTTCCTTGGATGTGCCACTCAGATGTATTTCTTCTTTTGGGGCTGCTGAGTGTGCCTCCTGGC
CACCATGGCATATGACCGCTACGTGGCCATCTGTGACCCCTTGCCTACCCAGTCATCATGGCCACATA
TCCTGTGCCAGCTGGCAGCTGCCTCTTGGTTCTCAGGGTTTTAGTGGCCACTGTGCAAACCACATGGA
TTTTAGTTTCCCTTTTGTGGCCCAACAGGGTGAACCACTTCTTGTGACAGCCCTCCTGTTATTGC
ACTGGTCTGTGCTGACACCTCTGTGTTGAACTGGAGGCTCTGACAGCCACTGTCCCATTCTCTTT
CCTTTCTGTGATCCTGGGATCCTATGTCGCATCCTCTCCACTATCTCAGGATGCCGTGAGTGGG
GAAACATCAGGCATTCTCCACCTGTCCGCCACCTCTTGGTTGTCTCTCTCTATAGCACTGCCAT
CCTCACGTATTTCCGACCCCAATCCAGTGCCTCTTCTGAGAGCAAGAAGCTGCTGCACTCTTCCACA
GTGGTGACTCCCATGTTGAACCCCATCATCTACAGCTCAAGGAATAAAGAAGTGAAGGCTGCACTGAAGC
GGCTTATCCACAGGACCCTGGGCTCTCAGAAACTA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC222472 representing NM_207186
Red=Cloning site Green=Tags(s)

MMWENWTIVSEFVLVSFSALSTELQALLFLLFTIYLVTLMGNVLIILVTIADSALQSPMYFFLRNLSFL
 EIGFNLVIVPKMLGTLIIQDTTISFLGCATQMYFFFFGAAECCLLATMAYDRYVAICDPLHYPVIMGHI
 SCAQLAAASWFSGFSVATVQTTWIFSFPPFCGPNRVNHFFCDSPPVIALVCADTSVFELEALTATVPFILF
 PFLLLILGSYVRILSTIFRMPSAEGKHQAFSTCSAHLLVVSLFYSTAILTYFRPQSSASSEKLLLSST
 VVTPMLNPPIIYSSRNKEVKAALKRLIHRTLGSQKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8014_b04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_207186

ORF Size: 945 bp

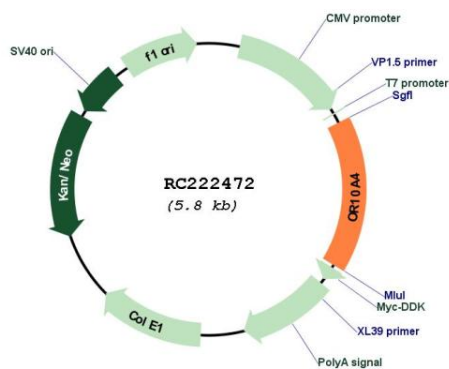
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_207186.1 , NP_997069.1
RefSeq Size:	948 bp
RefSeq ORF:	948 bp
Locus ID:	283297
UniProt ID:	Q9H209
Cytogenetics:	11p15.4
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Olfactory transduction
MW:	34.9 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 RC222472