

Product datasheet for **RC222486**

OR5K3 (NM_001005516) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: OR5K3 (NM_001005516) Human Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: OR5K3
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >RC222486 representing NM_001005516
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAATAAGGAGAATCACTCCTTGATAGCTGAGTTCATCCTCACAGGATTTACATATCATCCAAAGCTGA
 AGACTGTTCTGTTTGTGGTGTCTTTGCCATCTATCTGATCACCATGGTGGGAACATTGGTTTGGTGGC
 ATTGATTTATATAGAGCAACGTCTTACACACCAATGTACATATTTTAGGCAACCTAGTTCTGATGGAT
 TCCTGCTTCTCTGCTATTACTCCCAAGATGTTAGAGAACTCTTTTCTGAGGACAAAAGGATTACCC
 TGTATGAATGTATGGACAATTTATTTTCTGTCTGTCTTGGCTGAAACTACAGACTGCTTTCTTCTGGCGGC
 AATGGCCTATGACTGCTATGTGGCCATATGCAACCCACTGCAGTACCACACCATGATGTCCAAGACACTC
 TGCATTAGATGACTGCAGGAGCCTACCTAGCTGGCAACCTGCATCCCATGATTGAAGTAGAGTTTCTGT
 TGAGGTTAACTTTCTGTGGTCTCATCAAATCAATCATTTTTTCTGTGATGTTCTTCCATTATATAGACT
 TTCTTGATTAACCCCTTATCAATGAATTGGTGTATTTATCTTGGCAGGATCAATTCAAATCTTTACT
 ATAGTCTAGTTTCTTATTTCTACATCCTTTTCAATATTTACAATGAAATCCAAGGAGGGAAGAGGCA
 AAGCTTTATCTACTTGTGCATCTCACTTTCTCTGTGTCAATATCTGTGATCCCTTCTTTCATGTA
 TGCTCGACCAGGTGCAGTTAATGAAGGGGATAAAGATATACCTGTTGCTATTTTTATACTTTAGTTATT
 CCTTTATTAATCCTTTTATTTATAGCCTAAGAAATAAGGAAGTAATAAATATTATGAAAAAATTATGA
 AGAAGAGAAAATTTTGTACATTCTGAAACAAATGTCATCCCCTCTGGCAACT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC222486 representing NM_001005516
Red=Cloning site Green=Tags(s)

MNKENHSLIAEFILTGFTYHPKLTVLFFVFFAIYLITMVGNI GLVALIYIEQLHTPMYIFLGNLVLMD
 SCCSSAITPKMLENFFSEDKRITLYECMAQFYFLCLAETDTCFLLAAMAYDCYVAICNPLQYHTMMSKTL
 CIQMTAGAYLAGNLHPMIEVEFLLRLFCGSHQINHHFFCDVLPYLRLSCINPYINELVLFILAGSIQIFT
 IVLVSYFYILFTIFTMKSKEGRGKALSTCASHFLSVSIFCDLLFMYARPGAVNEGDKDIPVAIFYTLVI
 PLLNPF IYSLRNKEVINIMKKIMKKRKFCHILKQMSSPLAT

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_001005516

ORF Size: 963 bp

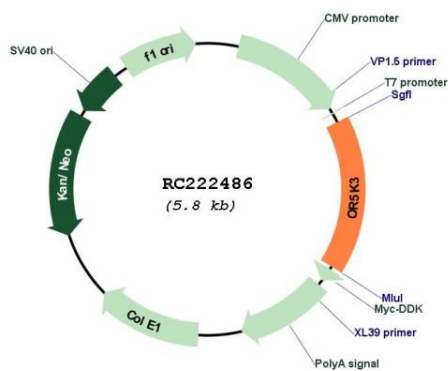
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:	<u>NM_001005516.1</u> , <u>NP_001005516.1</u>
RefSeq Size:	966 bp
RefSeq ORF:	966 bp
Locus ID:	403277
UniProt ID:	<u>A6NET4</u>
Cytogenetics:	3q11.2
Protein Families:	Transmembrane
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. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC222486