

Product datasheet for RC212409

OR6K6 (NM_001005184) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR6K6 (NM_001005184) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR6K6
Synonyms:	OR1-21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212409 representing NM_001005184 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGCAATATTCAGTGGGTAATCAACATTCCAATTATAGGAGTCTCTTGTTCCCTTTCTGTGTTTAC
AGATGACACAGTTGACGGCCAGTGGGAATCAGACAATGGTGACTGAGTTCCTCTTCTCTATGTTCCCGCA
TGCGCACAGAGGTGGCCTCTTATTCTTTATTCCCTTGCTTCTCATCTACGGATTTATCCTAACTGGAAAC
CTAATAATGTTTCATTGTCATCCAGGTGGGCATGGCCCTGCACACCCTTTGTATTTCTTTATCAGTGTCC
TCTCCTTCTGGAGATCTGCTATACCACAACCACCATCCCAAGATGCTGTCCTGCCTAATCAGTGAGCA
GAAGAGCATTTCGGTGGCTGGCTGCCTCCTGCAGATGTACTTTTTCCACTCACTGGTATCACAGAAAGC
TGTGTCCTGACAGCAATGGCCATTGACAGGTACATAGCTATCTGCAATCCACTCCGTTACCCAACCATCA
TGATCCCAAACCTTTGTATCCAGCTGACAGTTGGATCCTGCTTTTGTGGCTTCTCCTTGTGCTTCTCGA
GATTGCATGGATTTCCACCTTGCCTTTCTGTGGCTCCAACCAGATCCACCAGATATTCTGTGATTTACA
CCTGTGCTGAGCTTGGCCTGCACAGATACATTCTAGTGGTCATTGTGGATGCCATCCATGCAGCGGAAA
TTGTAGCCTCCTTCTGGTCATTGCTCTATCCTACATCCGGATTATTATAGTGATTCTGGGAATGCACTC
AGCTGAAGGTATCACAAGGCCTTTTCCACCTGTGCTGCTCACCTGCTGTGTTCTTGTCTATTTTTGGC
AGTGTGGCTGTGATGATTTGAGATTCTCAGCCACCTACTCAGTGTGTTTGGGACACAGCAATTGCTGTCA
CTTTGTTATCCTTGTCCCTTTTCAACCCCATCATCTATAGCCTGAAAAACAAGGACATGAAAGAGGC
TATTGGAAGGCTTTTCCACTATCAGAAGAGGGCTGGTTGGGCTGGGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC212409 representing NM_001005184
Red=Cloning site Green=Tags(s)

MKQYSVGNQHSNYRSLFPFLCSQMTQLTASGNQTMVTEFLFSMFPHAHRGGLFFIPLLLIYGFI LTGN
 LIMFIVIQVGMALHTPL YFFISVLSFLEICYTTTTIPKMLSCLISEQKSISVAGCLLQMYFFHSLGITES
 CVLTAMAIDRYIAICNPLRYPTIMIPKLCIQLTVGSCFCGFLLVLP EIAWISTLPFCGSNQIHQIFCDFT
 PVL SLACTDTFLVVIVDAIHAAEIVASFLVIALSYIRIIIVILGMHSAEGHHKAFSTCAAHLAVFLLFFG
 SVAVMYLRF SATYSVFWDTAIAVTFVILAPFFNPIIYSLKNKDMKEAIGRLFHYQKRAGWAGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8003_b11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001005184

ORF Size: 1029 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:

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_001005184.1](#), [NP_001005184.1](#)

RefSeq Size: 1032 bp

RefSeq ORF: 1032 bp

Locus ID: 128371

UniProt ID: [Q8NGW6](#)

Cytogenetics: 1q23.1

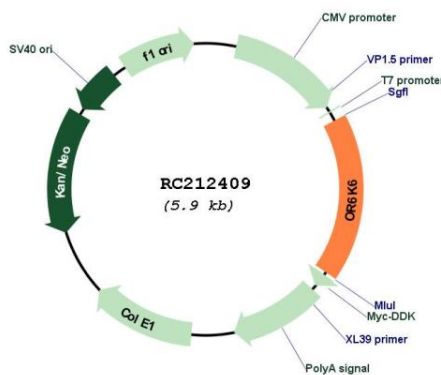
Protein Families: Transmembrane

Protein Pathways: Olfactory transduction

MW: 38.2 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 RC212409