

Product datasheet for RC224573

OR52B6 (NM_001005162) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR52B6 (NM_001005162) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR52B6
Synonyms:	OR11-47
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224573 representing NM_001005162. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCACAGGTGAGGGCGCTGCATAAAATCATGGCCCTTTTTCTGCTAACAGCATAGGTGCTATGAAC
AACTCTGACACTCGCATAGCAGGCTGCTTCCTCACTGGCATCCCTGGGCTGGAGCAACTACATATCTGG
CTGTCCATCCCCTTCTGCATCATGTACATCACTGCCCTGGAAGGCAATGGCATCCTAATTTGTGTCATC
CTCTCCCAGGCAATCCTGCATGAGCCCATGTACATATTCTTATCTATGCTGGCCAGTGCTGATGCTTG
CTCTCTACCACCACCATGCCTAAGGCCCTGGCCAATTTGTGGCTAGGTTATAGCCTCATTTCCTTTGAT
GGCTGCCTCACTCAGATGTTCTTCACTTCTCTTCACTCTGCTGTCCTGCTGGCCATGGCC
TTTGACCCTATGTGGCCATCTGCTCCCCCTGCGATATGTCACAATCCTCACAAGCAAGGTCATTGGG
AAGATCGTCACTGCCGCCCTGAGCCACAGCTTCATCATTATGTTCCATCCATCTTTCTCCTTGAGCAC
CTGCACTATTGCCAGATCAATATCATTGCACACATTTTGTGAGCACATGGGCATTGCCATCTGTCC
TGTTCTGATATCTCCATCAATGTCTGGTATGGGTTGGCAGCTGCTTCTCTCCACAGGCCATAGACATC
ATGCTTATTACTGTTTCTACATCCACATCCTCCAAGCAGTCTCCGCCCTCTTTCTCAAGATGCCCCG
TCCAAGGCCCTGAGTACCTGTGGATCCCATATCTGTGTCATCCTACTCTTCTATGTCCTGCGCTTTTT
TCTGTCTTTGCCACAGGTTTGGTGGGAGAAGCGTCCCATGCTATGTCCATATTCTCTGGCCAGCCTC
TACGTTGTCATTCTCTATGCTCAATCCCGTTATTTATGGAGTGAGGACTAAGCCAATACTGGAAGGG
GCTAAGCAGATGTTTTCAAATCTTGCCAAGGATCTAAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Protein Sequence: >Peptide sequence encoded by RC224573
 Blue=ORF Red=Cloning site Green=Tag(s)

MAQVRALHKIMALFSANSIGAMNNSDTRIAGCFLTGIPGLEQLHIWLSIPFCIMYITALENGILICVI
 LSQAILHEPMYIFLSMLASADVLLSTTTPKALANLWLGYSLSFDGCLTQMFFIHFLFIHSAVLLAMA
 FDRYVAICSPRLRYVITILTSKVIGKIVTAALSHSFIMFPSIFLLEHLHYCQINI IAHTFCEHMGIAHLS
 CSDISINWYGLAAALLSTGLDIMLITVSYIHILQAVFRLLSQDARSKALSTCGSHICVILLFYVPALF
 SVFAYRFGGRSVPCYVHILLASLYVVI PMLNPVIYGVRTKPILEGAKQMF SNLAKGSK
 TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8003_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001005162

ORF Size: 1005 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_001005162.2](#), [NP_001005162.2](#)

RefSeq Size: 1008 bp

RefSeq ORF: 1008 bp

Locus ID: 340980

UniProt ID: [Q8NGF0](#)

Cytogenetics: 11p15.4

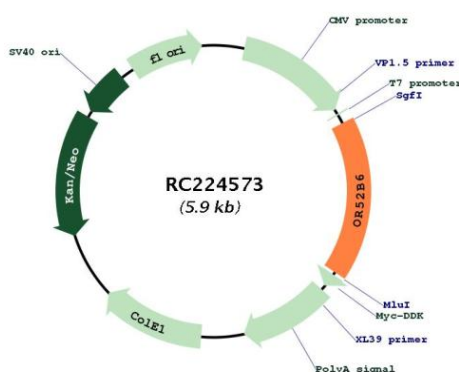
Protein Families: Transmembrane

Protein Pathways: Olfactory transduction

MW: 37 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 RC224573