

Product datasheet for **RC224012**

OR5A2 (NM_001001954) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR5A2 (NM_001001954) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR5A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224012 representing NM_001001954 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGTAGGAAGGAACAACAATTGTGACAAAATTCATTCTCCTGGGACTTTCAGACCATCCTCAAA
TGAAGATTTTCCTTTTCATGTTATTTCTGGGGCTCTACCTCCTGACGTTGGCCTGGAACCTAAGCCTCAT
TGCCCTCATTAAAGATGGACTCTCACCTGCACATGCCCATGTACTTCTCCTCAGTAACCTGTCCTTCCTG
GACATCTGCTATGTGCTCCACCGCCCTAAGATGCTGTCTGACATCATCACAGAGCAGAAAACCATTT
CCTTTGTTGGCTGTGCCACTCAGTACTTTGTCTTCTGTGGGATGGGGCTGACTGAATGCTTCTCCTGGC
AGCTATGGCCTATGACCGGTATGCTGCAATCTGCAACCCCTTGCTTTACACAGTCCCTCATATCCCATACA
CTTTGTTAAAGATGGTGGTTGGCGCCTATGTGGGTGGATTCTTAGTCTTTTCATTGAAACATACTCTG
TCTATCAGCATGATTTCTGTGGGCCCTATATGATCAACCACTTTTTCTGTGACCTCCCTCCAGTCTGGC
TCTGTCTGCTCTGATACCTTACCAGCGAGGTGGTGACCTTCATAGTCAGTGTGTGCGTTGGAATAGTG
TCTGTGCTAGTGGTCTCATCTTATGGTTACATTGTTGCTGCTGTTGTGAAGATCAGCTCAGCTACAG
GTAGGACAAAGGCCTTCAGCACTGTGCCTCTCACCTGACTGCTGTGACCCTCTTCTATGGTTCTGGATT
CTTCATGTACATGCGACCCAGTTCAGCTACTCCCTAACAGGGACAAGGTGGTGTCCATATTCTATGCC
TTGGTGATCCCCGTGGTGAATCCCATCATCTACAGTTTTAGGAATAAGGAGATTAATAATGCCATGAGGA
AAGCCATGGAAAGGGACCCGGGATTTCTACGGTGGACCATTATTTTTATGACCTTGGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC224012 representing NM_001001954
Red=Cloning site Green=Tags(s)

MAVGRNNTIVTKFILLGLSDHPQMKIFLFMLFLGLYLLTLAWNLSLIALIKMDSHLHMPMYFFLSNL SFL
 DICVVSSTAPKMLSDIITEQKTI SFVGCATQYFVFCGMGLTECFLLAAMAYDRYAAICNPLLYTVLISHT
 LCLKMVGAYVGGFLSSF IETYSVYQHDFCGPYMINHFFCDLPPVLALSCSDTFTSEVTFIVSVVVGIV
 SVLVVLI SYGYIVA AVVKISSATGRTKAFSTCASHLTAVTLFYGSGFFMYMRPSSSYSLNRDKVVSIFYA
 LVIPVVNPIIYSFRNKEIKNAMRKAMERDPGISHGPFIFMTLG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8001_d09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001001954

ORF Size: 972 bp

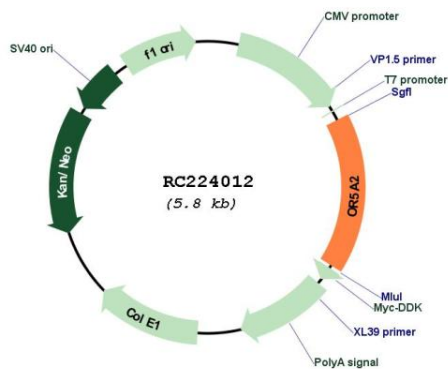
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_001001954.1, NP_001001954.1</u>
RefSeq Size:	975 bp
RefSeq ORF:	975 bp
Locus ID:	219981
UniProt ID:	<u>Q8NGI9</u>
Cytogenetics:	11q12.1
Protein Families:	Transmembrane
Protein Pathways:	Olfactory transduction
MW:	35.8 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 RC224012