OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC216381

OR8B4 (NM_001005196) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR8B4 (NM_001005196) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR8B4
Synonyms:	OR8B4P; OR11-315
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC216381 representing NM_001005196
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACTCTGAGAAACAGCTCCTCAGTGACTGAGTTTATCCTTGTGGGATTATCAGAACAGCCAGAGCTCC
AGCTCCCTCTTTTCCTTCTATTCTTAGGGATCTATGTGTTCACTGTGGTGGGCAACTTGGGCTTGATCAC
CTTAATTGGGATAAATCCTAGCCTTCACACCCCCATGTACTTTTTCCTCTTCAACTTGTCCTTTATAGAT
CTCTGTTATTCCTGTGTGTTTACCCCCAAAATGCTGAATGACTTTGTTTCAGAAAGTATCATCTCTTATG
TGGGATGTATGACTCAGCTATTTTTCTTCTGTTTCTTTGTCAATTCTGAGTGCTATGTGTTGGTATCAAT
GGCCTATGATCGCTATGTGGCCATCTGCAACCCCCTGCTCTACATGGTCACCATGTCCCCAAGGGTCTGC
TTTCTGCTGATGTTTGGTTCCTATGTGGTAGGGTTTGCTGGGGCCATGGCCCACACTGGAAGCATGCTGC
GACTGACCTTCTGTGATTCCAACGTCATTGACCATTATCTGTGTGACGTTCTCCCCCTCTTGCAGCTCTC
CTGCACCAGCACCCATGTCAGTGAGCTGGTATTTTTCATTGTTGTTGGAGTAATCACCATGCTATCCAGC
ATAAGCATCGTCATCTCTTACGCTTTGATACTCTCCAACATCCTCTGTATTCCTTCTGCAGAGGGCAGAT
CCAAAGCCTTTAGCACATGGGGCTCCCACATAATTGCTGTTGCTCTGTTTTTTGGGTCAGGGACATTCAC
CTACTTAACAACATCTTTTCCTGGCTCTATGAACCATGGCAGATTTGCCTCAGTCTTTTACACCAATGTG
GTTCCCATGCTTAACCCTTCGATCTACAGTTTGAGGAATAAGGATGATAAACTTGCCCTGGGCAAAACCC
TGAAGAGAGTGCTCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC216381 representing NM_001005196
Red=Cloning site Green=Tags(s)

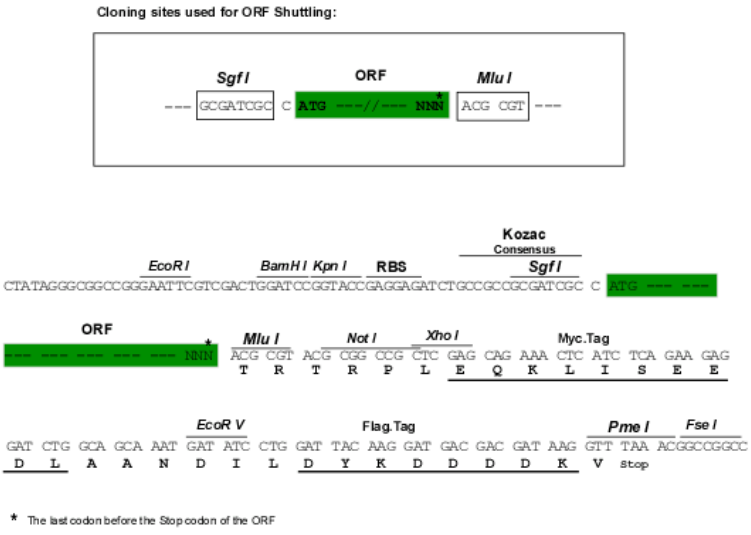
MTLRNSSSVTEFILVGLSEQPELQLPLFLLFLGIYVFTVVGNLGLITLIGINPSLHTPMYFFLFNLSFID
LCYSCVFTPKMLNDFVSESIISYVGCMTQLFFFCFFVNSECYVLVSMAYDRYVAICNPLLYMVTMSPRVC
FLLMFGSYVVGFAGAMAHTGSMLRLTFCDSNVIDHYLCDVLPLLQLSCTSTHVSELVFFIVVGVITMLSS
ISIVISYALILSNILCIPSAEGRSKAFSTWGSHIIAVALFFGSGTFTYLTTSFPGSMNHGRFASVFYTNV
VPMLNPSIYSLRNKDDKLALGKTLKRVLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8003_c10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001005196

ORF Size: 927 bp

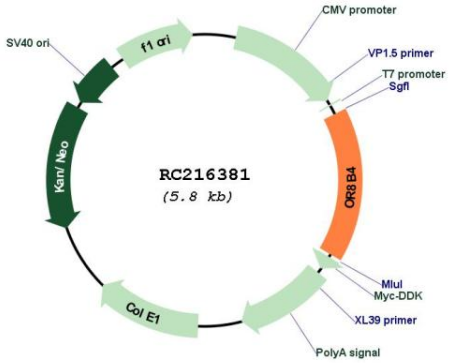
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_001005196.1, NP_001005196.1
RefSeq Size:	930 bp
RefSeq ORF:	930 bp
Locus ID:	283162
UniProt ID:	Q96RC9
Cytogenetics:	11q24.2
Protein Families:	Transmembrane
Protein Pathways:	Olfactory transduction
MW:	34.2 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. This olfactory receptor gene is a segregating pseudogene, where some individuals have an allele that encodes a functional olfactory receptor, while other individuals have an allele encoding a protein that is predicted to be non-functional. [provided by RefSeq, Jul 2015]

Product images:



Circular map for RC216381