

Product datasheet for RC216545

OR56A1 (NM_001001917) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR56A1 (NM_001001917) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR56A1
Synonyms:	OR11-75
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC216545 representing NM_001001917 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGATTCAGCCTATGGCGTCACCCAGCAACAGCTCCACTGTCCCAGTCTCTGAATTCCTCCTCACCTGCT
TCCCCAATTCCAGAGTTGGCAGCACTGGCTCTCCCTGCCCTCAGCCTTCTCTCCTCCTGGCCATGGG
AGCTAACACCACCCTCCTGATCACCATCCAGCTGGAGGCCTCTCTGCACCAGCCCCTGTACTACCTGCTC
AGCCTCCTCTCCCTGCTGGACATCGTGTCTGCCTCACCGTCATCCCCAAGGTCCTGGCCATCTTCTGGT
ATGATCTTAGGTCGATCAGTTCCCTGCCTGCTTCTCCAGATGTTTCATCATGAACAGTTTCTCCCCAT
GGAGTCTGCACGTTTATGGTCATGGCCTATGACCGTTATGTGGCCATCTGCCACCCACTGCGGTACCCA
TCCATCATCACTAATCAATTTGTGGCCAAAGCTAGTGTCTTATTGTGGTGCAGGAAATGCGTTTCTACTG
CACCCATTCTATCCTCACTTCCCTGCTCCATTACTGTGGGAAAATGTCATTGAGAAGTGCATCTGTGC
CAACTTGTCTGTGTCCAGGCTCTCCTGTGATAATTTACCCTTAACAGAACTACCAATTTGTGGCTGGT
TGGACCTTGTGGGCTCAGATTTATTCCTCATCTTCTCTTTACACCTCATTCTAAGAGCTGTGCTTA
GATTCAAAGCAGAGGGGGCGGCAGTGAAGGCCCTGAGCACATGTGGCTCCCACTTCATCCTCATTCTTTT
CTTCAGCACCATACTGCTGGTTGTGGTGTGACAAACGTGGCCAGAAAGAAGGTCCCATGGACATCCTG
ATCCTGCTGAACGTCCTTCATCACCTTATTCTCCTGCGTTGAACCTATTGTGTATGGGTTTCGGACCA
AAGAGATAAAACAGGGAATTCAGAAGTTACTGCAGAGAGGGAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC216545 representing NM_001001917
 Red=Cloning site Green=Tags(s)

MIQPMASPSNSSTVPVSEFLLTCFPNFQSWQHWLSLPLSLLFLLAMGANTLLITIQLEASLHQPLYLL
 SLLSLLDIVLCLTVIPKVLAIWFYDLRSISFPACFLQMFIMNSFLPMESCTFMVMAYDRYVAICHPLRYP
 SIITNQFVAKASVFIVVRNALLTAPIPILTSLLHYCGENVIENCICANLSVSRSCDNFTLNRIYQFVAG
 WTLGSDLFLIFLSYTFILRAVLRFKAEAAVKALSTCGSHFILILFFSTILLVVVLTNVARKKVPMDIL
 ILLNLVHLHLLIPPALNPIVYGVRTKEIKQGIQKLLQRGR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

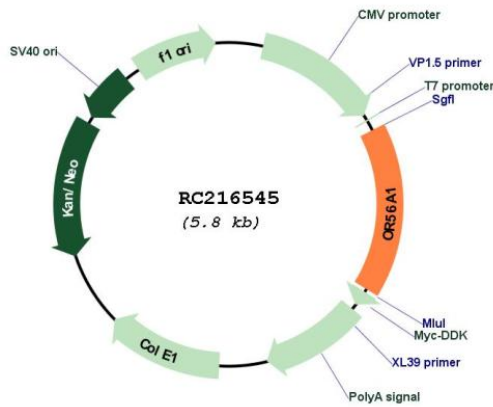
Chromatograms: https://cdn.origene.com/chromatograms/mk8001_c10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001001917

ORF Size:	954 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.
RefSeq:	NM_001001917.1 , NP_001001917.1
RefSeq Size:	957 bp
RefSeq ORF:	957 bp
Locus ID:	120796
Protein Families:	Transmembrane
Protein Pathways:	Olfactory transduction
MW:	35.6 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]