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Product datasheet for RC228246

OR56A5 (NM_001146033) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR56A5 (NM_001146033) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR56A5
Synonyms:	OR56A5P
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC228246 representing NM_001146033
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACATTACCCAGCAACAACTCCACTTCCCCAGTCTTTGAATTCTTCCTCATTTGTTTCCCCAGTTTCC
AGAGCTGGCAGCACTGGCTGTCTCTGCCCCTCAGCCTCCTCTTCCTCCTGGCCATGGGGGCCAATGCCAC
CCTTCTGATCACCATCTATCTGGAAGCCTCTCTGCACCAGCCCCTGTACTACCTGCTCAGCCTCCTCTCC
CTGCTGGACATCGTACTCTGCCTCACCGTCATCCCCAAGGTCCTGGCCATCTTCTGGTTTGACCTCAGAT
CAATCAGCTTCCCTGCCTGCTTCCTTCAGGTGTTCATCATGAACAGTTTTCTGACTATGGAGTCCTGCAC
ATTCATGATCATGGCCTATGACCGCTATGTGGCCATCTGCAAGCCCCTACAGTACTCATCCATCATCACT
GATCAATTTGTCGCTAGGGCTGCCATCTTTGTTGTGGCCAGGAATGGCCTTCTTACTATGCCTATCCCCA
TACTTTCTTCTCGACTCAGATACTGTGCAGGACACATCATCAAGAACTGCATCTGTACTAACGTGTCTGT
GTCTAAACTCTCTTGTGATGACATCACCTTGAATCAGAGCTACCAGTTTGTTATAGGTTGGACCCTGCTG
GGCTCTGACCTCATCCTTATTGTTCTCTCTTACTTTTTTATCTTGAAAACTGTGCTAAGGATTAAGGGTG
AGGGAGATATGGCCAAAGCTCTAGGTACTTGTGGTTCCCACTTCATCCTCATCCTCTTCTTCACCACAGT
CCTGCTGGTTCTGGTCATCACTAACCTGGCCAGGAAGAGAATTCCTCCGGATGTCCCCATCCTGCTCAAC
ATCCTGCACCACCTTATTCCCCCAGCTCTGAACCCCATTGTTTATGGTGTGAGAACCAAGGAGATCAAGC
AGGGAATCCAGAACCTGCTGAGGAGGTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC228246 representing NM_001146033
Red=Cloning site Green=Tags(s)

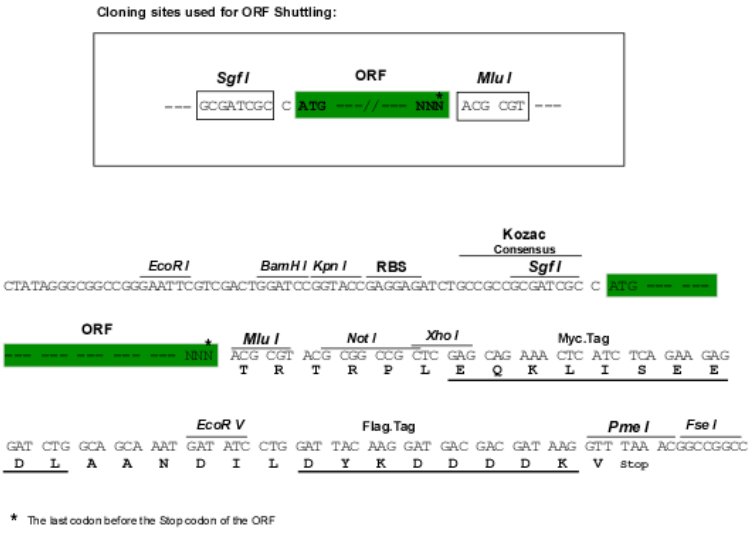
MTLPSNNSTSPVFEFFLICFPSFQSWQHWLSLPLSLLFLLAMGANATLLITIYLEASLHQPLYYLLSLLS
LLDIVLCLTVIPKVLAIFWFDLRSISFPACFLQVFIMNSFLTMESCTFMIMAYDRYVAICKPLQYSSIIT
DQFVARAAIFVVARNGLLTMPIPILSSRLRYCAGHIIKNCICTNVSVSKLSCDDITLNQSYQFVIGWTLL
GSDLILIVLSYFFILKTVLRIKGEGDMAKALGTCGSHFILILFFTTVLLVLVITNLARKRIPPDVPILLN
ILHHLIPPALNPIVYGVRTKEIKQGIQNLLRRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8038_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001146033

ORF Size: 939 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_001146033.1, NP_001139505.1

RefSeq ORF: 942 bp

Locus ID: 390084

UniProt ID: P0C7T3

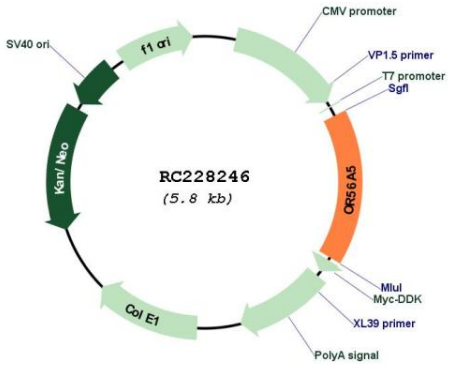
Cytogenetics: 11p15.4

Protein Pathways: Olfactory transduction

MW: 35.1 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, Mar 2009]

Product images:



Circular map for RC228246