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Product datasheet for RC210782

OR10A5 (NM_178168) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR10A5 (NM_178168) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR10A5
Synonyms:	JCG6; OR10A1; OR11-403
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC210782 representing NM_178168
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTATAGGAAACTGGACAGAAATAAGTGAATTTATCCTCATGAGCTTCTCTTCCCTACCTACTGAAA
TACAGTCATTGCTCTTCCTGACATTTCTAACTATCTATTTGGTTACTCTGAAGGGAAACAGCCTCATCAT
TCTGGTTACCCTAGCTGACCCCATGCTACACAGCCCCATGTACTTCTTCCTCAGAAACTTATCTTTCCTG
GAGATTGGCTTCAACCTAGTCATTGTGCCCAAAATGCTGGGGACCCTGCTTGCCCAGGACACAACCATCT
CCTTCCTTGGCTGTGCCACTCAGATGTATTTCTTCTTCTTCTTTGGGGTAGCTGAATGCTTCCTCCTGGC
TACCATGGCATATGACCGCTATGTGGCCATCTGCAGTCCCTTGCACTACCCAGTCATCATGAACCAAAGG
ACACGGGCCAAACTGGCTGCTGCTTCCTGGTTCCCAGGCTTTCCTGTAGCTACTGTGCAGACCACATGGC
TCTTCAGTTTTCCATTCTGTGGCACCAACAAGGTGAACCACTTCTTCTGTGACAGCCCGCCTGTGCTGAA
GCTGGTCTGTGCAGACACAGCACTGTTTGAGATCTACGCCATCGTCGGAACCATTCTGGTGGTCATGATC
CCCTGCTTGCTGATCTTGTGTTCCTATACTCGCATTGCTGCTGCTATCCTCAAGATCCCATCAGCTAAAG
GGAAGCATAAAGCCTTCTCTACGTGCTCCTCACACCTCCTTGTTGTCTCTCTTTTCTATATATCTTCTAG
CCTCACCTACTTCTGGCCTAAATCAAATAATTCTCCTGAGAGCAAGAAGTTGTTATCATTATCCTACACT
GTTGTGACTCCCATGTTGAACCCCATTATCTACAGCTTGAGAAATAGCGAGGTGAAGAATGCCCTCAGCA
GGACCTTCCACAAGGTCCTAGCCCTCAGAAACTGTATCCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC210782 representing NM_178168
Red=Cloning site Green=Tags(s)

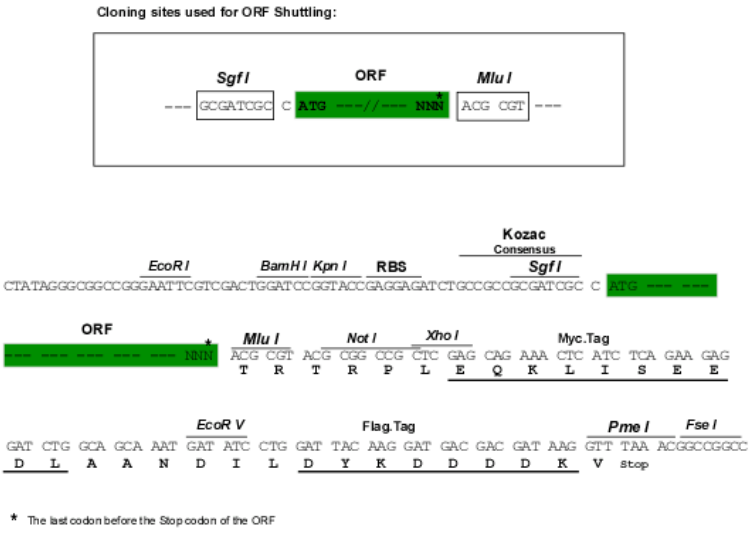
MAIGNWTEISEFILMSFSSLPTEIQSLLFLTFLTIYLVTLKGNSLIILVTLADPMLHSPMYFFLRNLSFL
EIGFNLVIVPKMLGTLLAQDTTISFLGCATQMYFFFFFGVAECFLLATMAYDRYVAICSPLHYPVIMNQR
TRAKLAAASWFPGFPVATVQTTWLFSFPFCGTNKVNHFFCDSPPVLKLVCADTALFEIYAIVGTILVVMI
PCLLILCSYTRIAAAILKIPSAKGKHKAFSTCSSHLLVVSLFYISSSLTYFWPKSNNSPESKKLLSLSYT
VVTPMLNPIIYSLRNSEVKNALSRTFHKVLALRNCIP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1519_b06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_178168

ORF Size: 951 bp

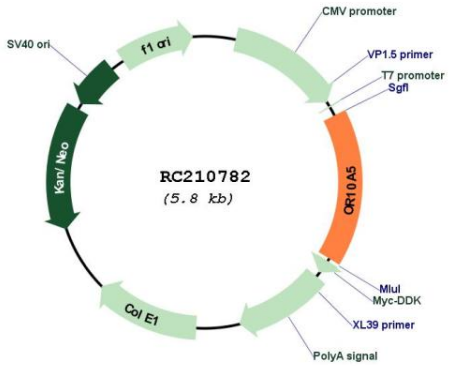
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

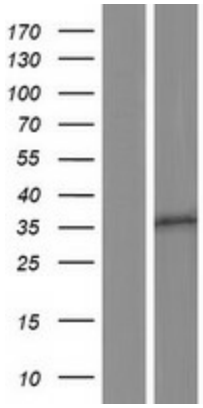
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_178168.1, NP_835462.1
RefSeq Size:	954 bp
RefSeq ORF:	954 bp
Locus ID:	144124
UniProt ID:	Q9H207
Cytogenetics:	11p15.4
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Olfactory transduction
MW:	35.3 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 RC210782



Western blot validation of overexpression lysate (Cat# [LY406008]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210782 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).