

Product datasheet for **RC221850**

OR10H1 (NM_013940) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR10H1 (NM_013940) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR10H1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221850 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGCAGAGAGCCAATCACTCCACAGTGACCCAATTCATCCTCGTCGGCTTCTCTGTCTTCCCCACCTCCAGCTGATGCTCTTCTGCTGTTCTGCTGATGTACCTGTTACGCTGCTGGGCAACCTGCTCATCATGGC
CACCGTCTGGAGCGAGCGCAGCCTCCACACGCCCATGTACCTCTTCTGTGCGCCTCTCCGTCTCCGAG
ATCCTCTACACCGTGGCCATCATCCCGCATGTGGCCGACCTGCTGTCCACCCAGCGCTCCATCGCT
TCCTGGCCTGTGCCAGTCAGATGTTCTTCTCCTTCAGCTTCGGCTCACCCACTCCTTCTGCTCACCGT
CATGGGCTACGACCGCTACGTGGCCATCTGCCACCCCTGCGTTACAACGTGCTCATGAGCCCGCGGGC
TGCGCCTGCCTGGTGGGCTGCTCCTGGGCTGGTGGCTTGGTCATGGGGATGGTGGTGACCTCGGCCATTT
TCCACCTCGCCTTCTGTGGACACAAGGAGATCCACCATTTGCTTGCCATGTGCCACCTCTGTTGAAGTT
GGCCTGTGGAGACGATGTGCTGGTGGCCAAAGGCGTGGGCTTGGTGTGTATCACGGCCTGCTGGG
TGTTTTCTCCTCATCCTCTCCTATGCCTTCATCGTGGCCGCCATCTGAAGATCCCTTCTGCTGAAG
GTCGGAACAAGGCCTTCCACCTGTGCCTCTCACCTCACTGTGGTGGTGCCTGACTATGGCTTTGCCTC
CGTCATTTACCTGAAGCCAAAAGTCCCAGTCTCTGGAAGGAGACACCTTGATGGGCATCACCTACAG
GTCCTCACACCCTTCTCAGCCCATCATCTTCAGCCTCAGGAACAAGGAGCTGAAGGTCGCCATGAAGA
AGACCTTCTCAGTAACTCTACCCAGAAAAAATGTAATGATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC221850 protein sequence
Red=Cloning site Green=Tags(s)

MQRANHSTVTQFILVGFVFPHLQLMLFLLFLLMYLFTLLGNLLIMATVWSERSLHTPMYFLCALSVSE
 ILYTVAIIPRMLADLLSTQRSIAFLACASQMFSSFSFGFTHSFLLTVMGYDRYVAICHPLRYNVLMSPRG
 CACLVGCSWAGGLVMGMVVTSIAIFHLAFCGHKEIHHFACHVPLLKACGDDVLVYAKGVGLVCITALLG
 CPLLILLSYAFIVAAILKIPSAEGRNKAFSTCASHLTVVVVHYGFASVIYLPKPSQSLGDTLMGITYT
 VLTFFLSPIIFSLRNKELKVAMKKTFFSKLYPEKNVMM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6605_f07.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_013940

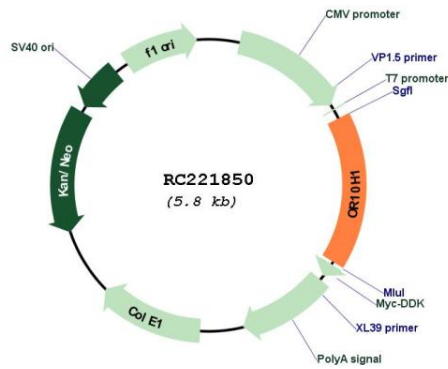
ORF Size: 954 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

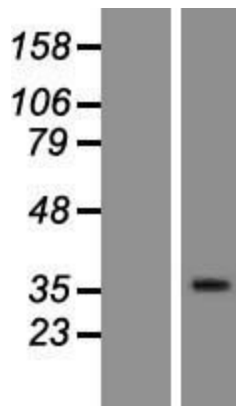
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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_013940.3</u>
RefSeq Size:	1120 bp
RefSeq ORF:	957 bp
Locus ID:	26539
UniProt ID:	<u>Q9Y4A9</u>
Cytogenetics:	19p13.12
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 RC221850



Western blot validation of overexpression lysate (Cat# [LY415592]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221850 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).