

Product datasheet for RC213237

OR51D1 (NM_001004751) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR51D1 (NM_001004751) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR51D1
Synonyms:	OR11-14; OR51D1Q
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC213237 representing NM_001004751 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCAGAAAGCCCCAGCTCTTGGTCCCTATCATAGCCACTTCAAATGGAAATCTGGTCCACGCAGCATACT
 TCCTTTTGGTGGGTATCCCTGGCCTGGGGCCTACCATACACTTTTGGCTGGCTTTCCCACTGTGTTTTAT
 GTATGCCCTGGCCACCCTGGGTAACCTGACCATTGTCTCATCTTCGTGTGGAGAGGCGACTGCATGAG
 CCCATGTACCTCTTCTGGCCATGCTTTCCACTATTGACCTAGTCCTCTCCTCTATCACCATGCCAAGA
 TGGCCAGTCTTTCTGATGGGCATCCAGGAGATCGAGTTCAACATTTGCCTGGCCAGATGTTCTTTAT
 CCATGCTCTGTCAGCCGTGGAGTCAGCTGTCTGCTGGCCATGGCTTTTGACCGCTTTGTGGCCATTTC
 CACCCATTGCGCCATGCTTCTGTGCTGACAGGGTGTACTGTGGCCAAGATTGGACTATCTGCCCTGACCA
 GGGGGTTTGATTTCTTCTTCCCACTGCCCTTCATCCTCAAGTGGTGTCTACTGCCAAACATACTGT
 CACACACTCCTTCTGTCTGCACCAAGATATTATGAAGCTGTCTGTACTGACACCAGGGTCAATGTGGTT
 TATGGACTCTTCATCATCCTCTCAGTCATGGGTGTGGACTCTCTTTCATTGGCTTCTATATATCTCA
 TCCTGTGGGCTGTTTGGAGCTGTCTCTCGGAGGGCAGCACTCAAGGCTTCAACACCTGCATCTCCCA
 CCTCTGTGCTGTTCTGGTCTTCTATGTACCCCTCATTGGGCTCTCGGTGGTGCATAGGCTGGGTGGTCCC
 ACCTCCCTCCTCATGTGGTTATGGCTAATACCTACTTGCTGCTACCACCTGTAGTCAACCCCTTGCTCT
 ATGGAGCCAAGACCAAGAGATCTGTTCAAGGGTCTCTGTATGTTCTCACAAGGTGGCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC213237 representing NM_001004751
 Red=Cloning site Green=Tags(s)

MQKPQLLVPIIATSNGNLVHAAYFLLVGIPGLGPTIHFWLAFPLCFMYALATLGNTIVLIIRVERRLHE
 PMYLFLAMLSTIDLVLSSITMPKMASFLMGIQEIEFNICLAQMFLIHLSAVESAVLLAMAFDRFVAIC
 HPLRHASVLTGCTVAKIGLSALTRGFVFFPLPFIKWLSYCQHTVTHSFCLHQDIMKLSCTDTRVNVV
 YGLFIILSVMGVDSLFIGFSYILILWAVLELSSRAALKAFNTCISHLCAVLVFYVPLIGLSVVHRLGGP
 TSLHHVMANTYLLLPPVYNPLVYGAKTKEICSRVLCMFSQGGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8002_h06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001004751

ORF Size: 972 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_001004751.2](#), [NP_001004751.1](#)

RefSeq Size: 975 bp

RefSeq ORF: 975 bp

Locus ID: 390038

UniProt ID: [Q8NGF3](#)

Cytogenetics: 11p15.4

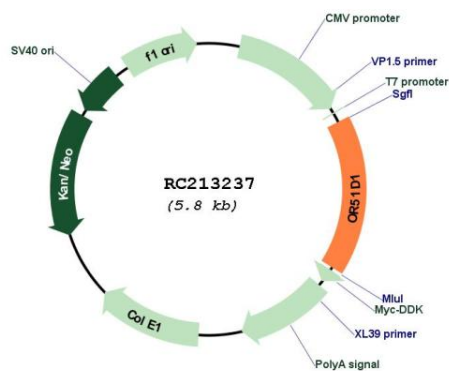
Protein Families: Transmembrane

Protein Pathways: Olfactory transduction

MW: 35.7 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 RC213237