

Product datasheet for RC222268

OR51F1 (NM_001004752) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR51F1 (NM_001004752) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR51F1
Synonyms:	OR11-21; OR51F1P
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222268 representing NM_001004752 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAACTACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGAAATCCTAAGCAACTCAACATCTAAATTTCCAACCTTCTTGTTGACCGGCATTCTGGCCTAGAGT
 CTGCCCATGTCTGGATCTCCATTCCTTTCTGTTGTTTTATGCCATTGCCCTCTCTGGGAACAGCGTGAT
 CCTGTTTGTATCATTACCCAGCAGAGTCTCCATGAACCATGTATTATTTCTCTTCAGGCTATCAGCC
 ACTGATCTGGGCTTGACTGTTTCTTATTGTCAACAACATTAGGTATCCTCTGGTTTGAGGCACGTGAAA
 TCAGTCTATATAGCTGCATTGTCCAGATGTTTTTCTTCATGGATTCACTTTTATGGAATCTGGAGTGCT
 GGTGGCTACAGCCTTTGACCGTTATGTGGCCATCTGTGACCCTCTGAGGTACACTACCATTCTCACTAAT
 TCCAGAATCATTCAAATGGGTCTTCTGATGATTACACGTGCTATAGTACTAATATTGCCACTACTTTTGC
 TCCTTAAGCCTCTCTATTTCTGTAGAATGAATGCCCTTTCTCACTCCTATTGTTACCATCCAGATGTGAT
 TCAATTAGCATGTTTCAGACATTCGGGCAAATAGCATCTGTGGATTAATTGATCTCATCTGACCACTGGA
 ATAGATACACCATGCATTGTCTGTCTATATCTTAATTATTCATCTGTCTCAGAAATGCCTCCCCTG
 AAGAATGGCACAAGGTCTTCAGCACCTGTGTCTCCCATGTGGGAGCAGTTGCTTTCTTCTACATCCACAT
 GCTGAGCCTGTCTTGGTGTATCGCTATGGTCGGTCAGCCCCAGAGTAGTCCATTCAAGTGATGGCTAAT
 GTATACCTGCTTTACCCCTGTGCTCAACCCCATCATCGACAGTGTAACAAACAAACAAATCCGCAAGG
 CTATGCTCAGTCTGCTGCTTACAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC222268 representing NM_001004752
 Red=Cloning site Green=Tags(s)

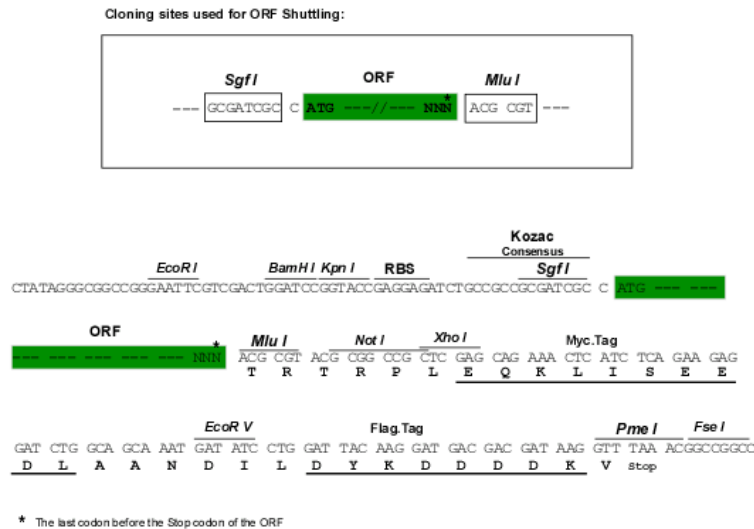
MEILSNSTSKFPTFLLTGIPGLES AHVWISIPFCCFYAIALSGNSVILFVITQQSLHEP MYFLFRLSA
 TDLGLTVSSLSTTLGILWFEAREISLYSCIVQMFFLHGFTFMESGVLVATAFDRYVAICDPLRYTTILT
 N SRIIQMGLLMITRAIVLILPLLLLLKPLYFCRMNALSHSYCYHPDVIQLACSDIRANSICGLIDLILTTG
 IDTPCIVLSYILIIHSVLR IASPEEWHKVFSTCVSHVGAVAFFYIHMLSLSLVYRYGRSAPRVVHVS
 YMAN VYLLLPVLNPIIDSVKTKQIRKAMLSLLLT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4428_c02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001004752

ORF Size: 936 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_001004752.1](#), [NP_001004752.1](#)

RefSeq Size: 939 bp

RefSeq ORF: 960 bp

Locus ID: 256892

Cytogenetics: 11p15.4

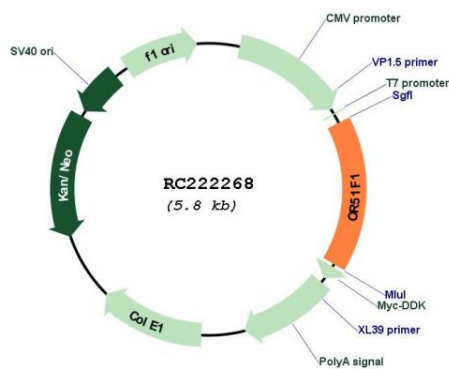
Protein Families: Transmembrane

Protein Pathways: Olfactory transduction

MW: 34.8 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. This olfactory receptor gene is a segregating pseudogene, where some individuals have an allele that encodes a functional olfactory receptor, while other individuals have an allele encoding a protein that is predicted to be non-functional. [provided by RefSeq, Jun 2015]

Product images:



Circular map for RC222268