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Product datasheet for RC224014

OR52E8 (NM_001005168) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR52E8 (NM_001005168) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR52E8
Synonyms:	OR11-54
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC224014 representing NM_001005168
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGGAAGAATGTCTACGTCTAATCACACCCAGTTCCATCCTTCTTCATTCCTACTGCTGGGTATCC
CAGGGCTAGAAGATGTGCACATTTGGATTGGAGTCCCTTTTTTCTTTGTGTATCTTGTTGCACTCCTGGG
AAACACTGCTCTCTTGTTTGTGATCCAGACTGAGCAGAGTCTCCATGAGCCTATGTACTACTTCCTGGCC
ATGTTGGATTCCATTGACCTGGGCTTGTCTACAGCCACCATCCCCAAAATGTTGGGCATCTTCTGGTTCA
ATACCAAAGAAATATCTTTTGGAGGCTGCCTTTCTCACATGTTCTTCATCCATTTCTTCACTGCTATGGA
GAGCATTGTGTTGGTGGCCATGGCCTTTGACCGCTACATTGCCATTTGCAAACCTCTTCGGTACACCATG
ATCCTCACCAGCAAAATCATCAGCCTCATTGCAGGCATTGCTGTCCTGAGGAGCCTGTACATGGTTGTTC
CACTGGTGTTTCTCCTTCTGAGGCTGCCCTTCTGTGGGCATCGTATCATCCCTCATACTTATTGTGAGCA
CATGGGCATTGCCCGTCTGGCCTGTGCCAGCATCAAAGTCAACATTAGGTTTGGCCTTGGCAACATATCT
CTCTTGTTACTGGATGTTATCCTTATTATTCTCTCCTATGTCAGGATCCTGTATGCTGTCTTCTGCCTGC
CCTCCTGGGAAGCTCGACTCAAAGCTCTCAACACCTGTGGTTCTCATATTGGTGTTATCTTAGCCTTTTT
TACACCAGCATTTTTTTCATTCTTGACACATCGTTTTGGCCATAATATCCCACAGTATATACATATTATA
TTAGCCAACCTGTATGTGGTTGTCCCACCAGCCCTCAATCCTGTAATCTATGGAGTCAGGACAAAGCAGA
TTCGAGAGAGAGTGCTGAGGATTTTTCTCAAGACCAATCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC224014 representing NM_001005168
Red=Cloning site Green=Tags(s)

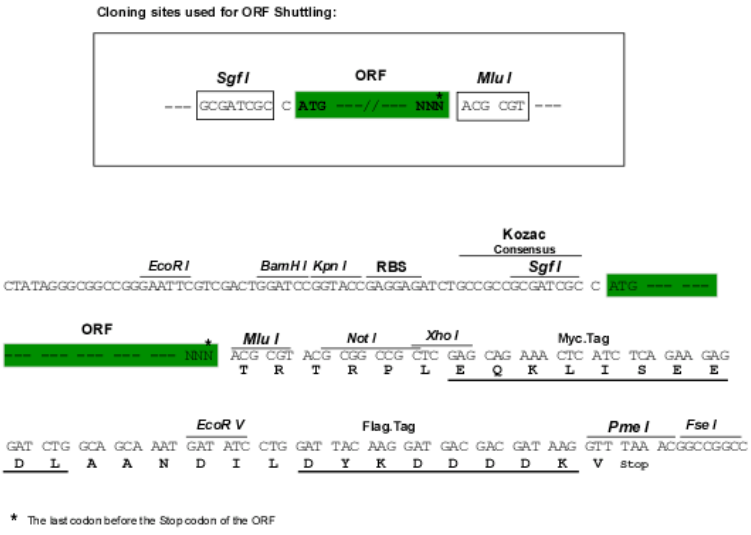
MAGRMSTSNHTQFHPSSFLLLGIPGLEDVHIWIGVPFFFVYLVALLGNTALLFVIQTEQSLHEPMYYFLA
MLDSIDLGLSTATIPKMLGIFWFNTKEISFGGCLSHMFFIHFFTAMESIVLVAMAFDRYIAICKPLRYTM
ILTSKIISLIAGIAVLRSLYMVVPLVFLLLRLPFCGHRIIPHTYCEHMGIARLACASIKVNIRFGLGNIS
LLLLDVILIILSYVRILYAVFCLPSWEARLKALNTCGSHIGVILAFFTPAFFSFLTHRFGHNIPQYIHII
LANLYVVVPPALNPVIYGVRTKQIRERVLRIFLKTNH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8003_a10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001005168

ORF Size: 951 bp

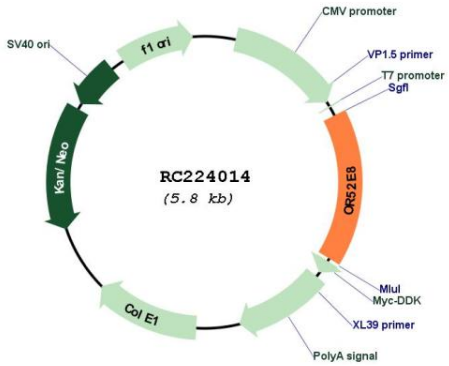
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
RefSeq:	NM_001005168.1, NP_001005168.1
RefSeq Size:	954 bp
RefSeq ORF:	954 bp
Locus ID:	390079
UniProt ID:	Q6IFG1
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 RC224014