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Product datasheet for RC217225

OR6B3 (NM_173351) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR6B3 (NM_173351) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR6B3
Synonyms:	OR6B3P; OR6B3Q
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC217225 representing NM_173351 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAGTGGGGAGAATGTCACCAGGGTCGGCACCTTCATCCTGGTGGGCTTCCCCACGGCCCCAGGGCTGC AGTACCTGCTCTTCCTCCTCTTCCTGCTCACCTACCTCTTTGTCCTGGTGGAGAACCTGGCCATCATCCT CACCGTCTGGAGCAGCACCTCCCTCCACAGGCCCATGTACTACTTTCTGAGCTCCATGTCTTTCCTAGAG ATCTGGTACGTGTCTGACATCACCCCCAAGATGCTGGAGGGCTTCCTCCTCCAGCAGAAACGCATCTCTT TCGTCGGGTGCATGACGCAGCTCTACTTCTTCAGCTCCCTGGTGTGCACCGAGTGTGTGCTTCTGGCCTC CATGGCCTACGACCGCTACGTGGCCATCTGCCACCCGCTGCGCTACCACGTCCTTGTGACCCCGGGGCTG TGCCTCCAGCTGGTGGGCTTCTCCTTTGTGAGTGGCTTCACCATCTCCATGATCAAGGTCTGTTTTATCT CCAGCGTCACGTTCTGTGGCTCCAACGTCTTGAACCACTTCTTCTGTGACATTTCCCCCATCCTCAAGCT GGCCTGCACGGACTTCTCCACTGCAGAGCTGGTGGATTTCATTCTGGCCTTCATCATCCTGGTGTTTCCA CTCCTGGCCACCATGCTGTCATATGCGCACATCACCCTGGCTGTCCTGCGCATCCCCTCGGCCACCGGCT GCTGGAGAGCCTTCTTCACCTGCGCCTCTCACCTCACCGTGGTCACCGTCTTCTATACAGCCTTGCTTTT CATGTATGTCCGGCCCCAGGCCATTGATTCCCGGAGCTCCAACAAGCTCATCTCTGTTTTGTACACAGTT ATCACCCCCATCTTGAACCCCTTGATATACTGCCTGAGGAATAAGGAATTTAAGAATGCCTTGAAAAAAG CCTTCGGCTTGACGAGCTGCGCCGTAGAGGGGAGGCTTTCTAGTCTTCTGGAACTTCATCTCCAAATACA CAGCCAGCCTCTC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC217225 representing NM_173351
Red=Cloning site Green=Tags(s)

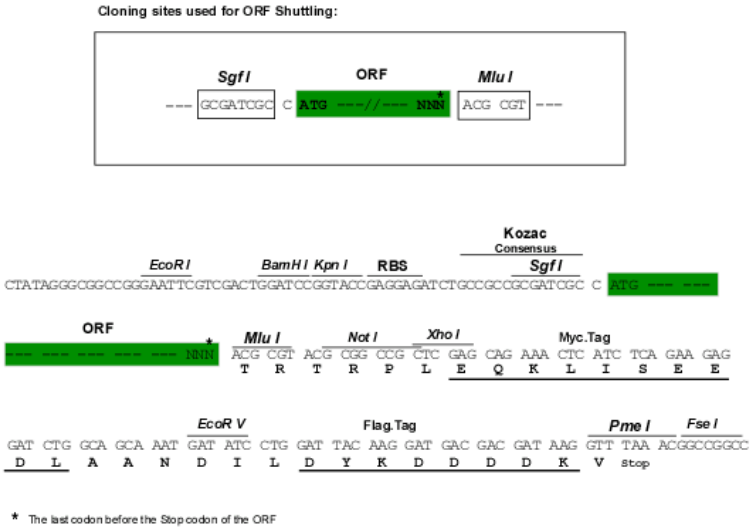
MSGENVTRVGTFILVGFPTAPGLQYLLFLLFLLTYLFVLVENLAIILTVWSSTSLHRPMYYFLSSMSFLE
IWYVSDITPKMLEGFLLQQKRISFVGCMTQLYFFSSLVCTECVLLASMAYDRYVAICHPLRYHVLVTPGL
CLQLVGFSFVSGFTISMIKVCFISSVTFCGSNVLNHFFCDISPILKLACTDFSTAELVDFILAFIILVFP
LLATMLSYAHITLAVLRIPSATGCWRAFFTCASHLTVVTVFYTALLFMYVRPQAIDSRSSNKLISVLYTV
ITPILNPLIYCLRNKEFKNALKKAFGLTSCAVEGRLSSLLELHLQIHSQPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

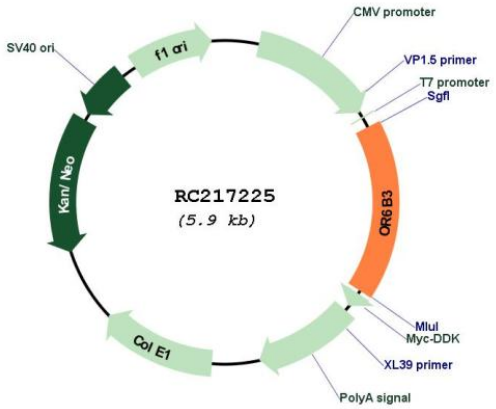
Chromatograms: https://cdn.origene.com/chromatograms/mk8012_h08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_173351

ORF Size:	993 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.
RefSeq:	NM_173351.1, NP_775486.1
RefSeq Size:	996 bp
RefSeq ORF:	996 bp
Locus ID:	150681
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Olfactory transduction
MW:	37.1 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]