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Product datasheet for RC213348

OR2B2 (NM_033057) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR2B2 (NM_033057) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OR2B2
Synonyms:	dJ193B12.4; hs6M1-10; OR2B2Q; OR2B9; OR6-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC213348 representing NM_033057 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAATTGGGTAAATAAGAGTGTCCCACAGGAGTTCATTCTGTTAGTTTTCTCAGATCAACCATGGCTAG
AGATTCCACCCTTTGTGATGTTTCTGTTTTCCTATATCTTGACAATCTTTGGCAATCTGACAATAATTCT
TGTGTCACATGTGGATTTCAAACTCCACACCCCTATGTACTTTTTTCTTAGCAATCTCTCACTCCTGGAC
CTTTGCTATACCACAAGTACAGTTCCACAAATGCTGGTAAACATATGCAACACCAGGAAAGTAATCAGTT
ATGGTGGCTGTGTGGCCCAGCTTTTCATTTTCCTGGCCTTGGGTTCCACAGAATGTCTTCTCCTGGCCGT
CATGTGCTTTGATAGGTTTGTAGCTATTTGTCGGCCTCTCCATTACTCAATTATCATGCACCAGAGGCTC
TGCTTCCAGTTGGCAGCTGCATCCTGGATTAGTGGCTTTAGCAATTCAGTATTACAGTCCACCTGGACAC
TTAAGATGCCACTGTGTGGTCACAAAGAAGTGGATCACTTCTTCTGTGAAGTCCCTGCTCTGCTCAAGTT
GTCCTGTGTTGACACAACAGCAAATGAGGCTGAACTATTCTTCATCAGTGTGCTATTCCTTCTAATACCC
GTGACACTCATCCTTATATCGTATGCTTTTATTGTCCAAGCAGTGTTGAGAATCCAGTCTGCTGAAGGTC
GACGAAAGGCATTTGGGACATGTGGCTCCCATCTAATTGTGGTGTCACTTTTTTATGGTACAGCTATCTC
CATGTACCTGCAACCACCTTCACCCAGCTCCAAAGACCGGGGAAAGATGGTTTCTCTCTTCTGTGGAATC
ATTGCACCCATGCTGAATCCCCTTATATATACACTTAGGAACAAAGAGGTAAAGGAAGCCTTTAAAAGGT
TGGTTGCAAAGAGTCTTCTTAATCAAGAAATAAGAAATATGCAAATGATAAGCTTTGCTAAAGACACAGT
GCTTACTTACCTTACTAACTTCTCCGCAAGTTGTCCTATTTTTGTCATTACTATAGAAAACTATTGTAAT
CTCCCTCAAAGAAAATTTCCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC213348 representing NM_033057
Red=Cloning site Green=Tags(s)

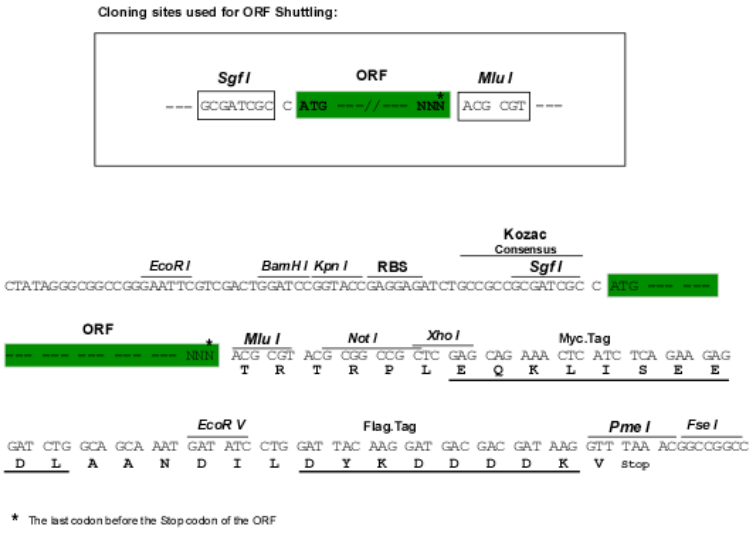
MNWVNKSVPQEFILLVFSDQPWLEIPPFVMFLFSYILTIFGNLTIILVSHVDFKLHTPMYFFLSNLSLLD
LCYTTSTVPQMLVNICNTRKVISYGGCVAQLFIFLALGSTECLLLAVMCFDRFVAICRPLHYSIIMHQRL
CFQLAAASWISGFSNSVLQSTWTLKMPLCGHKEVDHFFCEVPALLKLSCVDTTANEAELFFISVLFLLIP
VTLILISYAFIVQAVLRIQSAEGRRKAFGTCGSHLIVVSLFYGTAISMYLQPPSPSSKDRGKMVSLFCGI
IAPMLNPLIYTLRNKEVKEAFKRLVAKSLLNQEIRNMQMISFAKDTVLTYLTNFSASCPIFVITIENYCN
LPQRKFP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

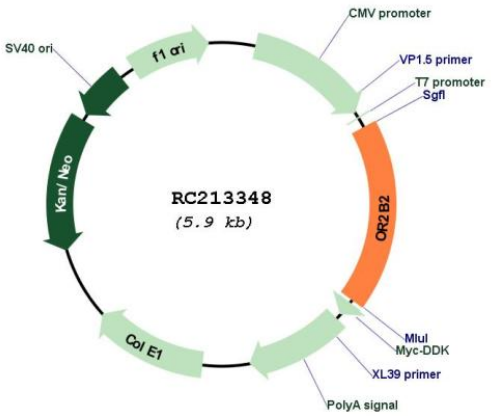
Chromatograms: https://cdn.origene.com/chromatograms/mk8011_e10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_033057
ORF Size:	1071 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_033057.1, NP_149046.1
RefSeq Size:	1074 bp
RefSeq ORF:	1074 bp
Locus ID:	81697
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Olfactory transduction
MW:	40.2 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]