

Product datasheet for RC237326

OR8G2P (NM_001291438) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: OR8G2P (NM_001291438) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: OR8G2P
Synonyms: HSTPCR120; OR8G2; OR8G4; ORL206; ORL486; TPCR120
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC237326 representing NM_001291438
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTTTTTCTTCTCCGTAGAACTGACCAAAGGAAAATGTCAGCAGGAAACCATTCTCAGTGACTG
 AGTTCATTCTGGCTGGGCTCTCAGAACAGCCAGAGCTCCAGCTGCGCCTTCTCCTGTCTTAGGAAT
 CTATGTGGTCACAGTGGTGGCAACTTGAGCATGATCACACTGATTGGGCTCAGTTCTCACCTGCATACC
 CCCATGTACTATTTCTCAGTGGTCTGTCTTCATTGATCTCTGCCATTCCACTATCATTACCCCAAAA
 TGCTGGTGAACTTTGTGACAGAGAAGAATCATCTCCTACCCTGAATGCATGACTCAGCTTTACTTCTT
 CCTCATTTTTGCTATTGCAGAGTGTACATGTTGGCTGTAACGGCATATGACCGCTATGTTGCCATCTGC
 AGCCCCCTTGCTGTACAATGTCAATCATGTCTATCACCAGTCTTCTGGCTCACAGTGGGAGTTTACGTTT
 TAGGCATCCTGGATCTACAATTCACACCGCTTATGTTGAGACTCTTTTTGTGCAAGACTAATGTGAT
 TAACCATTATTTTTGTGATCTCTCCCTCTCTTGGGGCTCTCCTGCTCCAGCACCTACATCAATGAATTA
 CTGTTCTGGTCTTGAGTGCATTTAACATCCTGACGCCCTGCTTAACCATCCTTGCTTCTACATCTTTA
 TCATTGCCAGCATCCTCCGATTCGCTCCACTGAGGGCAGGTCCAAAGCCTTCAGCACTGCAGTCCCA
 CATCTTGGCTGTTGCTGTTTTCTTTGGGTCTGCAGCATTATGTACCTGCAGCCATCATCTGTCTCAGCTCC
 ATGGACCAGAGGAAAGTGTCTCTGTGTTTTATACTACTATTGTGCCATGCTGAACCCCAATCTATAG
 CC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237326 representing NM_001291438
 Red=Cloning site Green=Tags(s)

MVFLSSVETDQRKMSAGNHSSVTEFILAGLSEQPELQLRFLFLGLIYVTVVGNLSMITLIGLSSHLHT
 PMYFLSGLSFIDLCHSTIITPKMLVNFVTEKNIISYPECMTQLYFFLIFAI AECHMLAVTAYDRYVAIC
 SPLLYNVIMSYHHCFWLTVGVYVLGILGSTIHTGFMLRFLCKTNVINHYFCDLFPLLGLSCSSTYINEL
 LVLVLSAFNILTPALTILASYIFI IASILRIRSTEGRSKAFSTCSSHILAVAVFFGSAAFMYLQPSSVSS
 MDQRKVSSVFYTTIVPMLNPQSI A

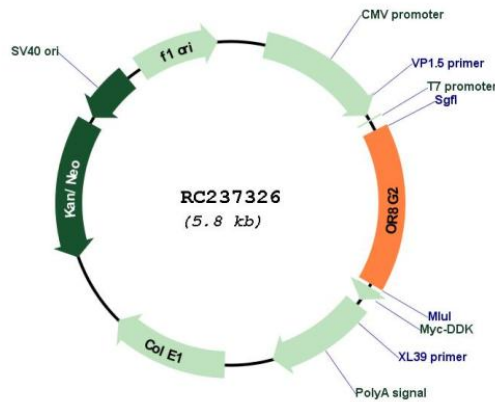
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001291438

ORF Size: 912 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:	<ol style="list-style-type: none">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_001291438.1 , NP_001278367.1
RefSeq Size:	1025 bp
RefSeq ORF:	915 bp
Locus ID:	26492
UniProt ID:	Q6IF36
Cytogenetics:	11q24.2
Protein Families:	Druggable Genome
Protein Pathways:	Olfactory transduction
MW:	34.4 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]