

Product datasheet for **RG216601**

OR8B2 (NM_001005468) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	OR8B2
Synonyms:	OR11-309; OR11-310
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG216601 representing NM_001005468
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGGCTAGAAACAACCTCCTTAGTGACTGAATTTATTCTTGCTGGATTAACAGATCATCCAGAGTTCC
GGCAACCCCTCTTTTCTGTTTCTAGTGATCTACATTGTCACCATGGTAGGCAACCTTGGCTTGATCAC
TCTTTTCGGTCTAAATCTCACCTCCACACCAATGACTATTTCTCTTCAATCTCTCCTTCATTGAT
CTCTGTACTCCTCTGTTTCACTCCCAAAATGCTAATGAACCTTGTGTCAAAAAGAATATTATCTCCA
ATGTTGGGTGCATGACTCGGCTGTTTTCTTCTCTTTTTCGTCATCTCTGAATGTTACATGTTGACTTC
AATGGCATATGATCGCTATGTGGCCATCTGAATCCATTGCTGTATAAGGTCACCATGTCCCATCAGGTC
TGTTCTATGCTCACTTTTGCTGCTTACATAATGGGATTGGCTGGAGCCACGGCCACACCGGGTGCATGC
TTAGACTCACCTTCTGCAGTGCTAATATCATCAACCATTACTTGTGTGACATACTCCCCCTCCTCCAGCT
TTCCTGCACCAGCACCTATGTCAACGAGGTGGTTGTTCTATTGTTGTGGGTACTAATATCACGGTACCC
AGTTGTACCATCCTCATTCTTATGTTTTTATTGCTCACTAGCATTCTCATATCAAATCCACTCAAGGAA
GATCAAAGCCTTCAGTACTTGTAGCTCTCATGTCATTGCTCTGCTCTGTTTTTGGGTGACGGCATT
CATGTATATTAATATTCTTCTGGATCTATGGAGCAGGAAAAGTTTCTCTGTTTTCTACACTAATGTG
GTGCCATGCTCAATCCCTCATCTACAGTTTGAGGAACAAGGATGTCAAAGTTGCACTGAGGAAAGCTC
TGATTAATAATTCAGAGGAGAAATATATTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG216601 representing NM_001005468
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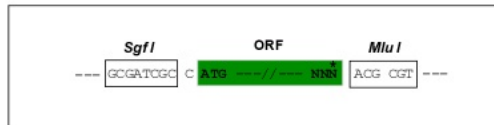
MLARNNSLVTEFILAGLTDHPEFRQPLFFLFLVIYIVTMVGNLGLITLFGLNHSLHTPMYYFLFNLSFID
LCYSSVFTPKMLMNFVSKKNIISNVGCMTRLFFFLFFVISECYMLTSMAYDRYVAICNPLLYKVMTSHQV
CSMLTFAAYIMGLAGATAHTGCMLRLTFCSANIINHLYCDILPLLQLSCTSTYVNEVVVLIVVGTNITVP
SCTILISYVFIVTSILHIKSTQGRSKAFSTCSSHVIALSLFFGSAAFMYIKYSSGSMEQGKVSSVFYTNV
VPMLNPLIYSLRNKDKVALRKALIKIQRNIF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGGCCGCGGAGCT

- - E E R V Stop

ACCN: NM_001005468

ORF Size: 939 bp

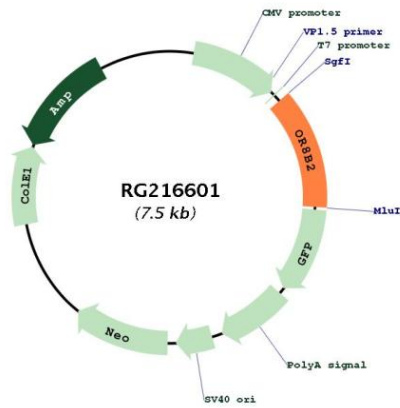
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_001005468.1 , NP_001005468.1
RefSeq Size:	942 bp
RefSeq ORF:	942 bp
Locus ID:	26595
UniProt ID:	Q96RD0
Cytogenetics:	11q24.2
Protein Families:	Transmembrane
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 RG216601