

## Product datasheet for **RG237326**

### OR8G2P (NM\_001291438) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OR8G2P (NM_001291438) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OR8G2P
Synonyms:	HSTPCR120; OR8G2; OR8G4; ORL206; ORL486; TPCR120
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237326 representing NM_001291438. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGTTTTCTTCTCCGTAGAACTGACCAAAGGAAAATGTCAGCAGGAAACCATTCTCAGTGACT
GAGTTCATTCTGGCTGGGCTCTCAGAACAGCCAGAGCTCCAGCTGCGCCTCTTCTCCTGTTCTTAGGA
ATCTATGTGGTCACAGTGGTGGGCAACTGAGCATGATCACACTGATTGGGCTCAGTTCTCACCTGCAT
ACCCCATGTACTATTTCTCAGTGGTCTGTCTTCATTGATCTCTGCCATTCCACTATCATTACCCCC
AAAATGCTGGTGAACCTTTGTGACAGAGAAGAACATCATCTCTACCTGAATGCATGACTCAGCTTAC
TTCTTCTCATTCTTGTATTGCAGAGTGCACATGTTGGCTGTAAACGGCATATGACCGCTATGTTGCC
ATCTGCAGCCCTTGCTGTACAATGTCATCATGTCCTATCACCCTGCTTCTGGCTCACAGTGGGAGTT
TACGTTTTAGGCATCCTTGGATCTACAATTCACACCGGCTTTATGTTGAGACTCTTTTTGTGCAAGACT
AATGTGATTAACCATTATTTTTGTGATCTCTTCCCTCTCTTGGGGCTCTCCTGCTCCAGCACCTACATC
AATGAATTACTGGTCTGGTCTTGGAGTGCATTTAACATCTGACGCTGCCTTAACCATCCTTGCTTCT
TACATCTTATCATTGCCAGCATCCTCCGATTCGCTCCACTGAGGGCAGGTCAAAGCCTTCAGCACT
TGCAGTCCCACATCTTGGCTGTTGCTGTTTTCTTGGGCTGTCAGCATTATGTACCTGCAGCCATCA
TCTGTGAGTCCATGGACCAGAGGAAAGTCTCTGTGTTTTATACTACTATTGTGCCATGCTGAAC
CCCCAATCTATAGCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237326  
 Blue=ORF Red=Cloning site Green=Tag(s)

MVFLSSVETDQRKMSAGNHSSVTEFILAGLSEQPELQLRFLFLFLGIYVTVVGNLSMITLIGLSSHLH  
 TPMYYFLSGLSFIDLCHSTIITPKMLVNFVTEKNIISYPECMTQLYFFLIFAIACHMLAVTAYDRYVA  
 ICSPLL YNVIMSYHHCFWLTVGVVVLGILGSTIHTGFMLRFLCKTNVINHYFCDFLLGLSCSSTYI  
 NELLVLVLSAFNILTALILASYIFIIASILRIRSTEGRSKAFSTCSSHILAVAVFFGSAAFMYLQPS  
 SVSSMDQRKVSSVFYTTIVPMLNPQSI A  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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).

**RefSeq:** [NM\\_001291438.1](#), [NP\\_001278367.1](#)

**RefSeq Size:** 1025 bp

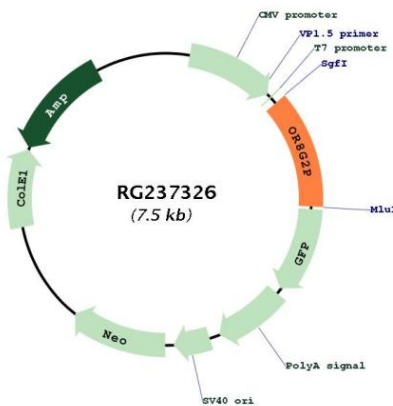
**RefSeq ORF:** 915 bp

**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]

### Product images:



Circular map for RG237326