

Product datasheet for SC300476

OR8G1 (NM_001002905) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR8G1 (NM_001002905) Human Untagged Clone
Tag:	Tag Free
Symbol:	OR8G1
Synonyms:	HSTPCR25; OR8G1P; TPCR25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC300476 representing NM_001002905. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGTCAGGAGAAAATAATTCTCAGTGACTGAGTTCATTCTGGCTGGGCTCTCAGAACAGCCAGAGCTC
CAGCTGCCCTCTTCTCCTGTCTTAGGAATCTATGTGGTCACAGTGGTGGCAACCTGGGCATGACC
ACACTGATTTGGCTCAGTCTCACCTGCACACCCTATGACTATTTCTCAGCAGTCTGCCTTCATT
GACTTCTGCCATTCCACTGTCATTACCCTAAGATGCTGGTGAACCTTTGTGACAGAGAAGAACATCATC
TCCTACCCTGAATGCATGACTCAGCTCTACTTCTCCTCGTTTTGCTATTGCAGAGTGCACATGTTG
GCTGCAATGGCGTATGACCGTTACATGGCCATCTGTAGCCCTTGCTGTACAGTGCATCATATCCAAT
AAGGCTTGCTTTTCTCTGATTTTAGGGGTATATAATAGGCCTGGTTTGTGCATCAGTTCATACAGGC
TGTATGTTTAGGGTTCAATTCTGCAAAATTTGATTTGATTAACCATTATTTCTGTGATCTTCTCCCTC
CTAAAGCTCTCTTGTCTAGTATCTATGCAACAACTACTTATTCTATGTGTTGGTGCATTTAACATC
CTTGTCGCCAGCCTGACCATCCTTTGCTTACATCTTTATTATTGCCAGCATCCTCCACATTGCTCC
ACTGAGGGCAGGTCAAAGCCTTCAGCACTTGTAGCTCCACATGTTGGCGGTTGTAATCTTTTTTGA
TCTGCAGCATTATGACTTGCAGCCATCTTCAATCAGCTCCATGGACCAGGGAAAGTATCCTCTGTG
TTTTATACTATTATTGTGCCATGTTGAACCCTGATTTATAGCCTGAGGAATAAAGATGTCCATGTT
TCCCTGAAGAAAATGCTACAGAGAAGAACATTATTGTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001002905
Insert Size:	936 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001002905.1</u>
RefSeq Size:	936 bp
RefSeq ORF:	936 bp
Locus ID:	26494
UniProt ID:	<u>Q15617</u>
Cytogenetics:	11q24.2
Protein Families:	Transmembrane
Protein Pathways:	Olfactory transduction
MW:	34.9 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. This family member represents a polymorphic pseudogene, whereby some individuals have a functional allele that encodes a full-length protein, while others have a non-functional allele due to the presence of an early stop codon and a 3' end deletion. [provided by RefSeq, Feb 2014]

Transcript Variant: This variant (1, coding) represents the longer transcript and encodes the supported protein. It represents the functional allele, as described in PMID: 18674749 and found in the GRCh38 reference genome assembly. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence because no single transcript was available for the full length of the gene. This RefSeq is supported by partial transcript and paralogous alignments. ##RefSeq-Attributes-START## polymorphic pseudogene :: PMID: 18674749 RefSeq Select criteria :: based on single protein-coding transcript ##RefSeq-Attributes-END##