

Product datasheet for **SC107106**

OR52I2 (NM_001005170) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR52I2 (NM_001005170) Human Untagged Clone
Tag:	Tag Free
Symbol:	OR52I2
Synonyms:	OR11-12; OR52I1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001005170, RT-PCR generated
 ACCACATGTGTCAACAAATCTTACGGGATTGCATTCTTCTCATACATCATTGTGCATTA
 ACAGGAAAAAAGTCTCACTTGTGATGCTGGGTCCAGCTTATAACCACACAATGGAACCC
 CTGCCTCCTTCCTTGTGGGTATCCCAGGACTGCAATCTTACATCTTTGGCTGGCTA
 TCTCACTGAGTGCCATGTACATCATAGCCCTGTTAGGAAACACCATCATCGTGAATGCAA
 TCTGGATGGATTCCACTCGGCATGAGCCCATGTATTGCTTTCTGTGTGTTCTGGCTGCTG
 TGGACATTGTTATGGCCTCCTCGGTGGTACCCAAGATGGTGAGCATCTTCTGCTCAGGAG
 ACAGCTCAATCAGCTTTAGTGCTTGTTCCTCAGATGTTTTTTGTCCACTTAGCCACAG
 CTGTGGAGACGGGGCTGCTGCTGACCATGGCTTTTGACCGCTATGTAGCCATCTGCAAGC
 CTCTACACTACAAGAGAATTCTCAGCCTCAAGTGATGCTGGGAATGAGTATGGCCATCA
 CCATCAGAGCTATCATAGCCATAACTCCACTGAGTTGGATGGTGAGTCATCTACCTTTCT
 GTGGCTCCAATGTGGTTGTCCACTCCTACTGTGAGCACATAGCTTTGGCCAGTTAGCAT
 GTGCTGACCCCGTGCCAGCAGTCTCTACAGTCTGATTGGTTCCTCTTATGGTGGGCT
 CTGATGTGGCCTTCATTGCTGCCTCCTATATCTTAATTCTCAAGGCAGTATTTGGTCTCT
 CCTCAAAGACTGCTCAGTTGAAAGCATTAAAGCACATGTGGCTCCCATGTGGGGTTATGG
 CTTTGTACTATCTACCTGGGATGGCATCCATCTATGCGGCCTGGTTGGGGCAGGATGTAG
 TGCCCTTGACACCCAAGTCTGCTAGCTGACCTGTACGTGATCATCCCAGCCACCTTAA
 ATCCCATCATCTATGGCATGAGGACCAACAACCTGCGGGAGAGAATATGGAGTTATCTGA
 TGCATGTCCTCTTTGACCATTCCAACCTGGGTTTCATGAACACAATATCTGTTTCAGATCCA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001005170 unedited NNGAATTCAGATTTGTAACCACTTATATAGGCGGCCGCCAGTGTGATGGGAATCTGCAG AATTCCGGCTTCAGCACCACATGTGTCAACAAATCTTACGGGATTGCATTCTTCATACA TCAATTTGTGCATTAACAGCGAAAAAAGTCTCACTTGTGATGCTGGGTCCAGCTTATAACC ACACAATGGGAAACCCCTGCCTCCTTCCTTGTGGGTATCCCAGGACTGCAATCTTCA CATCTTTGGCTGGCTATCTCACTGAGTGCCATGTACATCATAGCCCTGTTAGGAAACACC ATCATCGTGACTGCAATCTGGATGGATTCCACTCGGCATGAGCCCATGTATTGCTTTCTG TGTGTTCTGGCTGCTGTGGACATTGTTATGGCCTCCTCGGTGGTACCCAAGATGGTGAGC ATCTTCTGCTCAGGAGACAGCTCAATCAGCTTTAGTGCTTGTCTCACTCAGATGTTTTTT GTCCACTTAGCCACAGCTGTGGAGACGGGGCTGCTGCTGACCATGGCTTTTGACCCTAT GTAGCCATCTGCAAGCCTCTACACTACAAGAGAATTCTCACGCCTCAAGTGATGCTGGGA ATGAGTATGGCCATCACCATCAGAGCTATCATAGCCATAACTCCAAGTGGATGGTG AGTCATCTACCTTTCTGTGGCTCCAATGTGGTTGTCCACTCTACTGTGAGCACATAGCT TTGGGCCAGTTAGCATGTGCTGACCCCGTGCCAGCAGTCTCTACAGTCTGATTGGTTCC TCTCTTATGGTGGCTCTGATGTGGCCTTCATTGCTGCCTGCTATATCTTTATTCTCAA GCAGATTTGGTCTCTCCTCAAGACTGCTCAGTTGAAN
Restriction Sites:	Please inquire
ACCN:	NM_001005170
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).
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_001005170.1</u> , <u>NP_001005170.1</u>
RefSeq Size:	1053 bp
RefSeq ORF:	1053 bp
Locus ID:	143502
UniProt ID:	<u>Q8NH67</u>
Cytogenetics:	11p15.4
Protein Families:	GPCR, Transmembrane
Protein Pathways:	Olfactory transduction

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]