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Product datasheet for SC305590

OR51B2 (NM_033180) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OR51B2 (NM_033180) Human Untagged Clone
Tag:	Tag Free
Symbol:	OR51B2
Synonyms:	HOR5'Beta3; OR51B1P
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC305590 representing NM_033180. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGTGGCCCAATATTACTGCAGCCCCTTTTTTGCTGACTGGCTTTCCAGGGCTGGAGGCAGCTCATCAC TGGATCTCCATCCCCTTCTTTGCTGTTTATGTGTGCATCCTTCTGGGCAATGGCATGCTCCTCTACCTC ATCAAGCATGACCACAGTCTTCATGAGCCCATGTACTACTTCCTCACCATGCTGGCAGGCACAGACCTC ATGGTGACATTGACCACGATGCCTACTGTAATGGGCATCCTATGGGTGAATCACAGGGAGATTAGCAGT GTGGGCTGCTTCCTACAGGCTTACTTTATTCACTCCCTTTCTGTTGTGGAATCAGGTTCCCTCCTGGCA ATGGCATATGATTGTTTCATTGCCATCCGCAATCCTTTGAGATATGCTTCCATTCTCACCAATACTAGA GTCATAGCGTTAGGAGTGGGAGTGTTTCTAAGGGGTTTTGTATCCATCCTGCCTGTAATTTTGCGTCTT TTTTCATTTTCATATTGCAAATCTCATGTTATCACACGTGCTTTCTGCCTCCACCAAGAAATCATGAGA CTGGCTTGTGCTGACATAACTTTCAATAGACTTTACCCTGTAATTTTGATCTCTTTAACAATCTTCCTA GACTGTCTGATCATCCTCTTCTCCTATATTCTAATTCTTAATACTGTCATAGGCATTGCTTCTGGTGAA GAGAGAGCCAAAGCCCTCAATACCTGTATCTCCCACATTAGTTGTGTTCTTATCTTCTATGTTACAGTG ATGGGTTTGACATTCATTTACAGATTTGGGAAGAATGTGCCAGAGGTTGTCCACATTATCATGAGTTAC ATCTACTTCCTCTTTCCTCCTTTAATGAACCCTGTCATCTACAGCATCAAAACCAAGCAAATACAATAT GGCATTATCCGCCTTTTATCTAAACATAGGTTTAGTAGTTAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI
ACCN:	NM_033180
Insert Size:	939 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:	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_033180.4
RefSeq Size:	1055 bp
RefSeq ORF:	939 bp
Locus ID:	79345
UniProt ID:	Q9Y5P1
Cytogenetics:	11p15.4
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Olfactory transduction
MW:	35.4 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. This olfactory receptor gene is a segregating pseudogene, where some individuals have an allele that encodes a functional olfactory receptor, while other individuals have an allele encoding a protein that is predicted to be non-functional. [provided by RefSeq, Jun 2015]