

## Product datasheet for **SC301088**

### CHRM2 (NM\_001006627) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CHRM2 (NM_001006627) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHRM2
Synonyms:	HM2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC301088 representing NM\_001006627.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAATAACTCAACAACTCCTTAACAATAGCCTGGCTCTTACAAGTCCTTATAAGACATTTGAAGTG
GTGTTTATTGCTGGTGGTGGATCCCTCAGTTTGGTGACCATTATCGGGAACATCCTAGTCATGGTT
TCCATTAAGTCAACCGCCACCTCCAGACCGTCAACAATTACTTTTTATTAGCTTGGCCTGTGCTGAC
CTTATCATAGGTGTTTTCTCCATGAACCTGTACACCCTCTACACTGTGATTGGTTACTGGCCTTTGGGA
CCTGTGGTGTGTGACCTTTGGCTAGCCCTGGACTATGTGGTCAGCAATGCCTCAGTTATGAATCTGCTC
ATCATCAGCTTTGACAGTACTTCTGTGTACAAAACCTCTGACCTACCCAGTCAAGCGGACCACAAAA
ATGGCAGGTATGATGATTGCAGTGCCTGGTCTCTCTTTATCCTCTGGGCTCCAGCCATTCTCTTC
TGGCAGTTCATTGAGGGGTGAGAACTGTGGAGGATGGGAGTGCTACATTCAGTTTTTTTCCAATGCT
GCTGTCACCTTTGGTACGGCTATTGCAGCCTTCTATTTGCCAGTGATCATCATGACTGTGCTATATTGG
CACATATCCCAGCCAGCAAGAGCAGGATAAAGAAGGACAAGAAGGAGCCTGTTGCCAACCAAGACCCC
GTTTCTCCAAGTCTGGTACAAGGAAGGATAGTGAAGCCAAACAATAACAACATGCCAGCAGTGACGAT
GGCCTGGAGCACAAACAAATCCAGAATGGCAAAGCCCCAGGGATCCTGTGACTGAAAACGTGTTTCAG
GGAGAGGAGAAGGAGAGCTCCAATGACTCCACCTCAGTCAGTGCTTGCCTCTAATATGAGAGATGAT
GAAATAACCCAGGATGAAAACACAGTTTCCACTTCCCTGGGCCATTCCAAGATGAGAACTTAAGCAA
ACATGCATCAGAATTGGCACCAGACCCCAAAAAGTGACTCATGTACCCCACTAATACCACCGTGGAG
GTAGTGGGGTCTTCAGGTGAGATGGAGATGAAAAGCAGAATATTGTAGCCCGAAGATTGTGAAGATG
ACTAAGCAGCTGCAAAAAGAAGCCTCCTCTCCCGGAAAAGAAAGTCACCAGGACAATCTTGGCT
ATTCTGTTGGCTTTCATCATCACTTGGGCCCATACAATGTCATGGTGCTCATTAAACACTTTTGTGCA
CCTTGCATCCCCAACACTGTGTGACAATTGGTTACTGGCTTTGTTACATCAACAGCACTATCAACCCCT
GCCTGCTATGCACTTTGCAATGCCACCTTCAAGAAGACCTTTAAACACCTTCTCATGTGTCATTATAAG
AACATAGGCGCTACAAGGTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001006627

**Insert Size:** 1401 bp

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001006627.1</a>
<b>RefSeq Size:</b>	2704 bp
<b>RefSeq ORF:</b>	1401 bp
<b>Locus ID:</b>	1129
<b>UniProt ID:</b>	<a href="#">P08172</a>
<b>Cytogenetics:</b>	7q33
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Calcium signaling pathway, Neuroactive ligand-receptor interaction, Regulation of actin cytoskeleton
<b>MW:</b>	51.7 kDa
<b>Gene Summary:</b>	<p>The muscarinic cholinergic receptors belong to a larger family of G protein-coupled receptors. The functional diversity of these receptors is defined by the binding of acetylcholine to these receptors and includes cellular responses such as adenylate cyclase inhibition, phosphoinositide degeneration, and potassium channel mediation. Muscarinic receptors influence many effects of acetylcholine in the central and peripheral nervous system. The muscarinic cholinergic receptor 2 is involved in mediation of bradycardia and a decrease in cardiac contractility. Multiple alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 through 8 encode the same protein (isoform a).</p>