

Product datasheet for **SC110855**

CHRM2 (NM_000739) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHRM2 (NM_000739) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHRM2
Synonyms:	HM2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC110855 sequence for NM_000739 edited (data generated by NextGen Sequencing)

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ATGAATAACTCAACAACTCCTCTAACAATAGCCTGGCTCTTACAAGTCCTTATAAGACA
TTTGAAGTGGTGTATTATGTCCTGGTGGCTGGATCCCTCAGTTTGGTGACCATTATCGGG
AACATCCTAGTCATGGTTTCCATTAAAGTCAACCGCCACCTCCAGACCGTCAACAATTAC
TTTTTATTCAGCTTGGCCTGTGCTGACCTTATCATAGGTGTTTTCTCCATGAACCTTGAC
ACCTCTACACTGTGATTGGTTACTGGCCTTTGGGACCTGTGGTGTGACCTTTGGTA
GCCCTGGACTATGGTTCAGCAATGCCTCAGTTATGAATCTGCTCATCATCAGCTTTGAC
AGGTACTTCTGTGCACAAAACCTCTGACCTACCCAGTCAAGCGGACCACAAAAATGGCA
GGTATGATGATTGCAGCTGCCTGGGTCCTCTTTTCATCCTCTGGGCTCCAGCCATTCTC
TTCTGGCAGTTCATTGTAGGGGTGAGAACTGTGGAGGATGGGGAGTGTACATTAGTTT
TTTTCCAATGCTGCTGCACCTTTGGTACGGCTATTGCAGCCTTCTATTTGCCAGTGATC
ATCATGACTGTGTATATTGGCACATATCCCGAGCCAGCAAGAGCAGGATAAAGAAGGAC
AAGAAGGAGCCTGTTGCCAACCAAGACCCCGTTTCTCCAAGTCTGGTACAAGGAAGGATA
GTGAAGCCAAACAATAACAACATGCCAGCAGTGACGATGGCCTGGAGCACAACAAAATC
CAGAATGGCAAAGCCCCAGGGATCCTGTGACTGAAAACCTGTGTTTCAGGGAGAGGAGAAG
GAGAGCTCCAATGACTCCACCTCAGTCAGTGTGTTGCCTCTAATATGAGAGATGATGAA
ATAACCCAGGATGAAAACACAGTTTCCACTTCCCTGGGCCATTCCAAAGATGAGAACTCT
AAGCAAACATGCATCAGAATTGGCACCAAGACCCCAAAAAGTGACTCATGTACCCCAACT
AATACCACCGTGGAGGTAGTGGGGTCTTCAGGTGAGAATGGAGATGAAAAGCAGAATATT
GTAGCCCGCAAGATTGTGAAGATGACTAAGCAGCCTGCAAAAAGAAGCCTCCTCCTTCC
CGGGAAAAGAAAGTCAACAGGACAATCTTGGCTATTCTGTTGGCTTTCATCATCACTTGG
GCCCAACAATGTCATGGTGTCTATTAACACCTTTTGTGCACCTTGCATCCCCAACACT
GTGTGGACAATTGGTTACTGGCTTTGTTACATCAACAGCACTATCAACCCCTGCCTGCTAT
GCACTTTGCAATGCCACCTTCAAGAAGACCTTTAAACACCTTCTCATGTGCATTATAAG
AACATAGGCGCTACAAGGTAA

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Clone variation with respect to NM_000739.2

5' Read Nucleotide Sequence: >OriGene 5' read for NM_000739 unedited

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ATAACCCCGCCCGTTGCCGCAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAA
GCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCG
CGAATTCGGCAGCAGGGTATTTTGGGCTTCCCGCTCTTTGTGAAAGCCCGATCAAGGGAG
AAAGAGAACCGGCAGCTGGGCTCGGACTAAGCGGGGCGCAACTTCAGCCCGAGCGGAT
CGGGCCTTAACCCACAAAGGACTCCTCGCTTCTTAAGCCTTACCACCTTGCAGCGGGG
GAGGGAACCTGGGGCGAAACCCGCGACAGGGTAAATGGTTATTTGCTACTCGGCTACTGG
GTAGAGAACGCCAAATGAATAACTCAACAACTCCTCTAACAATAACCTGGGTCTTACAA
GACCTTATAATACATTTGAAGTGGGGTTTATTGGCCTGGTGGGTGGATCCCTCACTTTGG
TGACCATTATCGGGGACATCCTACTCATGGGTTCCATTAAGTCAACCGCCACCTCCAGA
CCGTGAACAATTACTTTTTATTAGCTTGGCCTGTGCTGACCTTATCATAAGAGAGGTGT
CCATGAACTTGTACACCCTCTACTGTGATTGGGTACTGGCCTTTGTGACCTGTGGTGT
GTGACCTTTGGTAGCCCTGCATATGTGGTCAAGCAATGCCTCACTTATGAATCTGCTCA
TCATCAACTNTGACAGGAACTTCTGTGTGACAGAACCTCTGACCTACCCAGTCAAGCGGA
CCACACAATGGCAGGNATGATGATTGCAGCTGCCTGGGTCTCTTTTATTCTCTGGG
CTGCCGCCATTCTTCTGGCAGTTATTGTATGGGTGAGAACTGACGAGATGGGGAGTGC
TACATTANATCTTTCCATGCTGCTGCCCT

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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000739 unedited AGGTAGCATATAGNCNCGCGGGCCGCTATCTAGNGTCGAGTTTTTTTTTTTTTTTTTTTGT GTATAATATATTTATTTGCATACAGGAAAATGTATTTCTATTGTACATTTTATTATTTTA TTTATAGAATATATATATATATTTAGCACATAGCATATTCAGGAAGATACATTAATAT GCACACATTTTCATGCTACAGCGTGCACCCTTTAAGAGAAGCATTTTTAAGAGGCATGGTA TTGAATATACATGCTGAGAATACACTTTGCACAATTTTCATCCAGCTTTGGGTGCTTTCT AAACTATTTGCAACACCCGGTACTATGGTTGTTGAAAGGGATATTATCAAACCTGGGGCAG GAGGAAAACGTCAATGAACTAAGTAGGAGAAAATAAAAACAGACTGCATTGCTGAGTAAT TGGTGCCATCAATTTGAATTCATCTCTCCCAATGTCAGATCTTCAGGATCAAAAAAGC AAATGAACAAAGAGCAGGAGTATGTTGGACATCCAGCTTGTTTCAATCAGAAAAGC TTACCCGCTGTGGCTTCTCATATTGATTACTCTGCCCTAATACTTGGGAGCTGGCGTTAA ATTAATGATGAACTGGTAAAAGGAAAACATTTCTTGTTCGAAGACATGAACAGACTTTT TCCATATTTCTTAATCTCCTTTCTTATAATATCACTCTGGGATAGCTACATTATTGCTAT GAGGAGAGAAAAACAAGACCTTACAGATACCCTTTTCAGTAATGCAAAGAAATAATGA TATGTTTCTGAAGAGGCTCTATATTTTTTGAAGGAAAATTGAGCTCCGTAGANCTGATCT ATACATGCAATATTTGATGGCAATACTGCAACTCAATGACTAATTCGTGGGATTCTATCT AACCTAAGAGCTGAAAAAG
Restriction Sites:	NotI-NotI
ACCN:	NM_000739
Insert Size:	4500 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).
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_000739.2</u> , <u>NP_000730.1</u>
RefSeq Size:	2530 bp
RefSeq ORF:	1401 bp
Locus ID:	1129
UniProt ID:	<u>P08172</u>
Cytogenetics:	7q33
Protein Families:	Druggable Genome, GPCR, Transmembrane

Protein Pathways:	Calcium signaling pathway, Neuroactive ligand-receptor interaction, Regulation of actin cytoskeleton
Gene Summary:	<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 (4) differs in the 5' UTR compared to variant 1. Variants 1 through 8 encode the same protein (isoform a).</p>