

Product datasheet for **SC115522**

Muscarinic Acetylcholine Receptor M5 (CHRM5) (NM_012125) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Muscarinic Acetylcholine Receptor M5 (CHRM5) (NM_012125) Human Untagged Clone
Tag:	Tag Free
Symbol:	Muscarinic Acetylcholine Receptor M5
Synonyms:	HM5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_012125, RT-PCR generated
 ATGGAAGGGGATTCTTACCACAATGCAACCACCGTCAATGGCACCCAGTAAATCACCAG
 CCTTTGGAACGCCACAGGTTGTGGGAAGTCATCACCATTGCAGCTGTGACTGCTGTGGTA
 AGCCTGATCACCATTGTGGGCAATGTCTGGTCATGATCTCCTTCAAAGTCAACAGCCAG
 CTCAAGACAGTTAACTATTACCTGCTCAGCTTAGCCTGTGCAGATCTCATATTGGA
 ATCTTCTCCATGAACCTTACACCACCTACATCCTCATGGGACGCTGGGCTCTCGGGAGT
 CTGGCTTGTGACCTTTGGCTTGCCTGACTGACTGACTGACTGACTGACTGACTGACTGACT
 CTCTGGTGATCAGTTTTGACCGTTACTTTTCCATCACAAGACCCTTGACATATCGGGCC
 AAGCGTACTCCGAAAAGGGCTGGCATCATGATTGGCTTGGCTGGCTGATCTCCTTCATC
 CTCTGGGCCCCAGCAATCCTCTGCTGGCAGTACTTGGTTGGGAAGCGGACAGTTCCTG
 GATGAGTGCCAGATCCAGTTTCTCTGAGCCCACCATCACTTTTGGCACTGCCATTGCT
 GCCTTCTACATCCCTGTTTCTGTCATGACCATCCTCTACTGTGCAATCTACCGGAAACA
 GAGAAGCGAACCAAGGACCTGGCTGACCTCCAGGGTTCTGACTCTGTGACCAAAGCTGAG
 AAGAGAAAGCCAGCTCATAGGGCTCTGTTTCCAGATCCTGCTTGGCTGTCTCGACCCACC
 CTGGCCAGCGGAAAGGAACAGGCTCCTGGTATCCTCCCGCAGGAGCACCTCCACC
 ACTGGGAAGCCATCCCAAGCCACTGGCCCAAGCGCAATTGGGCCAAAGCTGAGCAGCTC
 ACCACCTGTAGCAGCTACCTTCCCTCAGAGGATGAGGACAAGCCCGCCACTGACCCTGTC
 CTCCAAGTGGTCTACAAGAGTCAGGGTAAGGAAAGCCAGGGGAAGAATTGAGTGTGAA
 GAGACTGAGGAACTTTTGTGAAAGCTGAAACTGAAAAAGTACTGATGACACCCCAAAC
 TACCTTCTGTCTCCAGCAGCTGCTCATAGACCCAAGAGTCAGAAATGTGTGGCCTATAAG
 TTCCGATTGGTGGTAAAAGCTGACGGGAACAGGAGACCAACAATGGCTGTCACAAGGTG
 AAAATCATGCCCTGCCCTTCCAGTGGCCAAGGAACCTTCAACGAAAGGCTCAATCCC
 AACCCAGCCATCAAATGACCAAACGAAAGAGAGTGGTCTAGTCAAAGAGAGGAAAGCA
 GCCCAGACACTGAGTGCCATTCTCCTGGCCTTCCATCATCACATGGACCCGTATAACATC
 ATGGTCTGGTTTCTACCTTCTGTGACAAGTGTGTCCAGTCACCCTGTGGCACTTGGGC
 TATTGGTTGTGCTATGTCAATAGCACTGTCAACCCATCTGCTATGCCCTCTGCAACAGA
 ACCTTCAGGAAGACCTTTAAGATGCTGCTTCTCTGCCGATGGAAAAAGAAAAAGTGAA
 GAGAAGTTGACTGGCAGGGGAACAGCAAGCTACCCTGA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_012125 unedited
 TTCCCCGATTTTCAGGATTTGTNATACGATTTATATAGGCGGCCGCAGATGTGATGGA
 ATCTGCAGAATTCGGCTTATGGAAGGGATTCTTACCACAATGCAACCACCGTCAATGGCA
 CCCCAGTAAACACCAGCCTTTGGAACGCCACAGGTTGTGGGAAGTCATCACCATTGCAGC
 TGTGACTGCTGTGGTAAGCCTGATCACCATTGTGGCAATGTCTTGGTATGATCTCCTT
 CAAAGTCAACAGCCAGCTCAAGACAGTTAACTATTACCTGCTCAGCTTAGCCTGTGC
 AGATCTCATCATTGGAATCTTCCATGAACCTTACACCACCTACATCCTCATGGGACG
 CTGGGCTCTCGGGAGTCTGGCTTGTGACCTTTGGCTTGCCTGACTGGACTACGTGGCCAGCA
 CGCTTCTGTGATGAACCTTCTGGTGATCAGTTTTGACCGTTACTTTTCCATCACAAGACC
 CTTGACATATCGGGCAAGCGTACTCCGAAAAGGGCTGGCATCATGATTGGCTTGGCCTG
 GCTGATCTCCTTATCCTCTGGGCCCCAGCAATCCTCTGCTGGCAGTACTTGGTTGGGAA
 GCGGACAGTTCCTGATGAGTGCCAGATCCAGTTTCTCTGAGCCCACCATCACTTT
 TGGCACTGCCATTGCTGCCTTCTACATCCCTGTTTCTGTCATGACCATCCTCTACTGTGC
 AATCTACCGGAAACAGAGAAGCGAACCAAGGACCTGGCTGACCTCCAGGGTTCTGACTC
 TGTGACCAAAGCTGAGAAGAGAAAGCCAGCTCATAGGGCTCTGTTTCCAGATCCTGCTGCG
 CTGCTCCTCGACCCACCCTGGCCAGCGGNAAGAAC

Restriction Sites: Please inquire
ACCN: NM_012125

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:	NM_012125.2 , NP_036257.1
RefSeq Size:	2699 bp
RefSeq ORF:	1599 bp
Locus ID:	1133
UniProt ID:	P08912
Cytogenetics:	15q14
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Calcium signaling pathway, Neuroactive ligand-receptor interaction, Regulation of actin cytoskeleton
Gene Summary:	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 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 clinical implications of this receptor are unknown; however, stimulation of this receptor is known to increase cyclic AMP levels. [provided by RefSeq, Jul 2008]