

Product datasheet for **MR207339**

Chrm1 (NM_001112697) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chrm1 (NM_001112697) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chrm1
Synonyms:	Chrm-1; M1; M1R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207339 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACACCTCAGTGCCCCCTGCTGTCTCAGTCCCAACATCACCGTCTTGGCACCAGGAAAGGGTCCCTGGC
 AAGTGGCATTTCATCGGGATCACACAGGCTCCTGTCTCTGGCTACAGTGACAGGCAACCTGCTGGTGT
 CATCTCCTTCAAGGTCAACACAGAGCTCAAGACAGTCAACAACACTTCTCCTGCTGAGCCTGGCCTGTGT
 GATCTCATCATTGGCACTTTCTCCATGAACCTCTATACCACATACCTGCTCATGGCCACTGGGCTCTGG
 GCACACTGGCCTGTGACCTCTGGCTGGCCCTGGACTATGTGGCCAGCAACGCCTCTGTATGAATCTTCT
 GCTCATCAGCTTTGACCGTTACTTCTCAGTGACCCGACCCCTGAGCTACCGAGCCAAGCGCACTCCCCGC
 AGGGCAGCTCTGATGATTGGCCTCGCGTGGTGGTTTCTTCGTTCTCTGGGCCCGCCATCCTCTTCT
 GGCAATACCTAGTTGGGAGCGGACAGTGTGGCTGGCAGTGTACATCCAGTTCCTCTCCAACCCAT
 CATCACTTTTGGCACAGCCATGGCCGCTTCTACCTCCCTGTACAGTCACTGTGTACGCTGTACTGGCGC
 ATCTACCGGGAGACAGAAAACCGAGCCCGGAGCTAGCAGCCCTACAGGGCTCTGAGACACCAGGCAAG
 GTGGTGGCAGCAGCAGCAGCTCAGAGAGGTCACAGCCAGGAGCTGAAGGCTCACCCGAGTCACTCCAGG
 CCGCTGTCTCGCTGTTGCCGGGACCCAGACTTCTGCAGGCCTACAGCTGGAAAGAAGAAGAGGAAGAG
 GATGAAGGCTCCATGGAGTCCCTCACATCCTCTGAAGGTGAGGAGCTGGCTCAGAAGTGGTGATCAAGA
 TGCCTATGGTAGATCCTGAGGCACAGGCACCCACCAAGCAGCCTCCCAAAAGCTCCCAAAATACAGTCAA
 GAGGCCACCAAGAAAGCCGAGACCGAGGCGGCAAGGCCAAAAACCCGAGGGAAGGAACAACCTGGCC
 AAGAGAAAAGACCTTCTCACTGGTCAAGGAGAAGAAGGCAGCTCGGACCTGAGTGCCATCCTGCTGGCCT
 TCATCCTCACCTGGACACCATATAACATCATGGTGTCTACATTCTGCAAGGACTGTGTTCCAGA
 AACCCATATGGGAGCTGGGCTACTGGCTTTGCTAGTCAACAGCACTGTCAACCCCATGTGCTACGCACTC
 TGCAACAAAGCCTTCCGGGACACTTCCGCTGTGTTGCTCTGCCGCTGGGACAAGCGGCGCTGGCGCA
 AAATCCCAAGCGCCCTGGCTCTGTGCACCGCACCCCTCCCGCAATGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207339 protein sequence
 Red=Cloning site Green=Tags(s)

MNTSVPPAVSPNITVLPAGKGPVQVAFIGITGLLSLATVTGNLLVLISFKVNTLKTVNNYFLLSLACA
 DLIIGTFSMNLYTTYLLMGHWALGTLACDLWLALDYVNASVMNLLISFDRYFSVTRPLSYRAKRTPR
 RAALMIGLAWLVSFVLWAPAILFWQYLVGERTVLAGQCYIQFLSQPIITFGTAMAAFYLPVTVMCTLYWR
 IYRETENRARELAALQGSETPGKGGSSSSSERSQPGAEGSPESPGRCCRCRAPRLLQAYSWKEEEEEE
 DEGSMESLTSSEGEPPGSEVVIKMPMVDPEAQAPTKQPPKSSPNTVKRPTKKGRDRGGKQKPRGKEQLA
 KRKTFSLVKEKKAARTLSAILLAFILTWTPYINIMVLVSTFCKDCVPETLWELGYWLCYVNSTVNPICYAL
 CNKAFRDTRFRLLLCRWDKRRWRKIPKRPGSVHRTPSRQC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001112697

ORF Size: 1383 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001112697.1](#), [NP_001106167.1](#)

RefSeq Size: 6301 bp

RefSeq ORF: 1383 bp

Locus ID: 12669

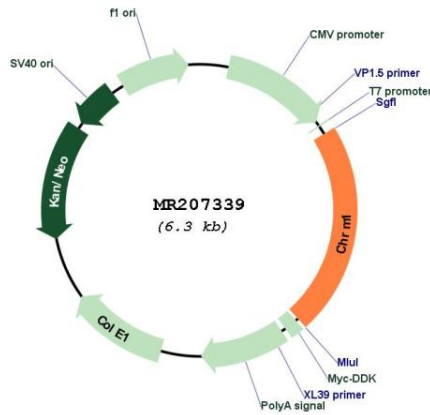
UniProt ID: [P12657](#)

Cytogenetics: 19 A

MW: 51.4 kDa

Gene Summary: The muscarinic acetylcholine receptor mediates various cellular responses, including inhibition of adenylate cyclase, breakdown of phosphoinositides and modulation of potassium channels through the action of G proteins. Primary transducing effect is Pi turnover.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207339