

## Product datasheet for **MR221834**

### Chrm1 (NM\_007698) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chrm1 (NM_007698) 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)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR221834 representing NM\_007698  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAACACCTCAGTGCCCCCTGCTGTCTCAGTCCCAACATCACCGTCTTGGCACCAGGAAAGGGTCCCTGGC  
 AAGTGGCATTTCATCGGGATCACACAGGCTCCTGTCTCTGGCTACAGTGACAGGCAACCTGCTGGTGCT  
 CATCTCCTTCAAGGTCAACACAGAGCTCAAGACAGTCAACAACACTTCTCCTGCTGAGCCTGGCCTGTGCT  
 GATCTCATCATTGGCACTTTCTCCATGAACCTCTATACCACATACCTGCTCATGGCCACTGGGCTCTGG  
 GCACACTGGCCTGTGACCTCTGGCTGGCCCTGGACTATGTGGCCAGCAACGCCTCTGTATGAATCTTCT  
 GCTCATCAGCTTTGACCGTTACTTCTCAGTGACCCGACCCCTGAGCTACCGAGCCAAGCGCACTCCCCGC  
 AGGGCAGCTCTGATGATTGGCCTCGCGTGGTGGTTTCTTCGTTCTCTGGGCCAGCCATCTCTTCT  
 GGCAATACCTAGTTGGGAGCGGACAGTGTGGCTGGCAGTGTACATCCAGTTCCTCTCCAACCCAT  
 CATCACTTTTGGCACAGCCATGGCCGCTTCTACCTCCCTGTACAGTCACTGTGTACGCTGTACTGGCGC  
 ATCTACCGGGAGACAGAAAACCGAGCCCGGAGCTAGCAGCCCTACAGGGCTCTGAGACACCAGGCAAG  
 GTGGTGGCAGCAGCAGCAGCTCAGAGAGGTCACAGCCAGGAGCTGAAGGCTCACCCGAGTCACTCCAGG  
 CCGCTGCTGTGCTGTTGCCGGGACCCAGACTTCTGCAGGCCTACAGCTGGAAGAAGAAGAGGAAGAG  
 GATGAAGGCTCCATGGAGTCCCTCACATCTCTGAAGGTGAGGAGCTGGCTCAGAAGTGGTGATCAAGA  
 TGCCTATGGTAGATCCTGAGGCACAGGCACCCACCAAGCAGCCTCCCAAAAGCTCCCAAAATACAGTCAA  
 GAGGCCACCAAGAAAGCCGAGACCGAGGCGGCAAGGCCAAAAACCCGAGGGAAGGAACAACCTGGCC  
 AAGAGAAAAGACCTTCTCACTGGTCAAGGAGAAGAAGGCAGCTCGGACCTGAGTGCCATCCTGCTGGCCT  
 TCATCCTCACCTGGACACCATATAACATCATGGTGTCTACATTCTGCAAGGACTGTGTTCCAGA  
 AACCCATATGGGAGCTGGGCTACTGGCTTGTCTAGTCAACAGCACTGTCAACCCCATGTGCTACGCACTC  
 TGCAACAAAGCCTTCCGGGACACTTCCGCTGCTGTTGCTCTGCCGCTGGGACAAGCGGCTGGCGCA  
 AAATCCCAAGCGCCCTGGCTCTGTGCACCGCACCCCTCCCGCAATGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR221834 representing NM\_007698  
 Red=Cloning site Green=Tags(s)

MNTSVPPAVSPNITVLPAGKGPWQVAFIGITTLGSLATVTGNLLVLISFKVNTLKTVNNYFLLSLACA  
 DLIIGTFSMNLYTTYLLMGHWALGTLACDLWLALDYVNASVMNLLISFDRYFSVTRPLSYRAKRTPR  
 RAALMIGLAWLVSFVLWAPAILFWQYLVGERTVLAGQCYIQFLSQPIITFGTAMAAFYLPVTVMCTLYWR  
 IYRETENRARELAALQGSETPGKGGSSSSSERSQPGAEGSPESPGRCCRCRAPRLLQAYSWKEEEE  
 DEGSMESLTSSEGEPPGSEVVIKMPMDPEAQAPTKQPPKSSPNTVKRPTKKGRDRGGKQKPRGKEQLA  
 KRKTFSLVKEKKAARTLSAILLAFILTWTPYINIMVLVSTFCKDCVPETLWELGYWLCYVNSTVNPACYAL  
 CNKAFRDTRFRLLLCRWDKRRWRKIPKRPGSVHRTPSRQC

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9029\\_f11.zip](https://cdn.origene.com/chromatograms/mm9029_f11.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_007698

**ORF Size:** 1380 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\\_007698.3](#), [NP\\_031724.2](#)

**RefSeq Size:** 6209 bp

**RefSeq ORF:** 1383 bp

**Locus ID:** 12669

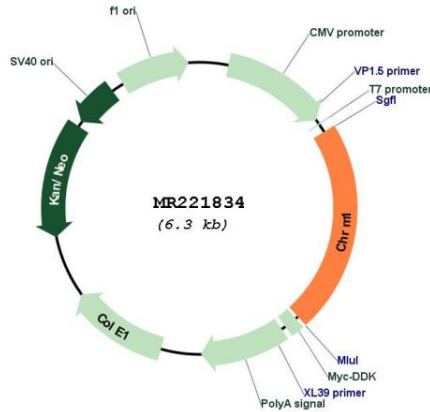
**UniProt ID:** [P12657](#)

**Cytogenetics:** 19 A

MW: 51.8 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 MR221834