

Product datasheet for **MR226527**

Chrm4 (NM_007699) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chrm4 (NM_007699) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chrm4
Synonyms:	Chrm-4; M4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR226527 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGAACTTCACACCTGTCAATGGCAGCTCAGCCAATCAGTCTGTGCGCTGGTCACAACAGCCACA
 ACCACCTGGAGACAGTGGAGATGGTGTTCATTGCGACAGTGAAGTTCCTGAGCCTGGTACTGTGGT
 GGGTAACATCCTGGTGATGCTGTCCATCAAGGTCAACAGGCAGTTGCAGACAGTCAACAACACTTCTCTG
 TTCAGCCTGGCGTGTGCAGATCTCATATAGGGCGTCTCTATGAACCTTTACACCTTATAACATCATCA
 AGGGCTACTGGCCCTGGGTGCCGTGGTCTGTGACCTGTGGTGGCCCTGGACTATGTGGTGAAGCAATGC
 CTCTGTCAAGACCTTCTCATCATCAGCTTTGACCGCTATTTCTGCGTCACCAAGCCCTCACCTATCCA
 GCCCGCCGACTACTAAGATGGCAGGCCTCATGATTGCAGCCGCTGGTCTTGTCTTTGACTCTGGG
 CCCCTGCCATCTGTTCTGGCAGTTTGGTGGGCAAGAGGACAGTGCCTGATAACCAAGTCTTCATCCA
 GTTCTTGTCCAACCCGGCGGTGACCTTCGGCACAGCCATTGCTGCCTTACCTGCCTGTGGTTCATCATG
 ACGGTGCTGTATATTCATATCTCGCTGGCCAGCCGAGCCGCTGTTCACAAGCATCGACCCGAGGGCCCA
 AGGAGAAGAAGGCCAAGACTCTGGCTTCTCAAGAGCCCTCTGATGAAGCCGAGCATTAAAGAACTCC
 ACCAGGGGGCGCTTCTCGAGAGGAACTGCGCAACGGGAAGCTAGAAGAGGCTCCTCCGCCAGCCCTGCC
 CCGCTCCACGCCAGTGGCTGACAAGGACACTCCAATGAGTCCAGCTCAGGCAGTGCACCCAGAACAA
 CCAAGGAACGGCCACCCACAGAGCTGTCCACCACAGAGCCGCCACCACACAGCGCTGCCCGCTCCTAC
 CCTGCAGCCAGAACCTCAACCCAGCTCCAAGTGGTCCAAGATCCAATTTGTGACAAAGCAGACAGGC
 AGTGAATGTGTGACTGCCATCGAGATCGTACCTGCCAGCCAGCTGGTATGCGCCAGCAGCCAATGTGG
 CCCGAAAGTTTGGCAGCATCGCTCGTAACCAAGTGGCAGGCAAGAGCGGAGATGGCGCCCGGGAGCGCAA
 AGTGACTCGGACAATCTTTGCCATTCTGCTGGCCTTCATCCTCACCTGGACACCCTACAATGTCTGGT
 CTGGTGAACACCTTTTGGCAGAGCTGTATCCCCGAAAGGGTGTGGTCCATCGGCTACTGGCTCTGTACG
 TCAACAGCACGATCAACCCTGCCTGCTATGCACCTGCAATGCCACTTTCAAAAAGACCTTCCGGCACCT
 TTTGCTGTGCCAGTATCGGAACATCGGCACAGCCAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226527 protein sequence
 Red=Cloning site Green=Tags(s)

MANFTPVNGSSANQSVRLVTTAHNHLETVMVF IATVTGSLSLVTVVGNILVMLSIKVNRLQTVNNYFL
 FSLACADLIIGAFSMNLYLTYI IKGYWPLGAVVCDLWLALDYVVSNASVMNLLIISFDRYFCVTKPLTYP
 ARRTTKMAGLMIAAAWVLSFVLWAPAILFWQFVVGKRTVPDNQCFIQFLSNPAVTFGTAAAFYLPVVIM
 TVLYIHSLSASRSRVHHRPEGPKEKAKTLAFLKSPLMKPSIKKPPPGGASREELRNGLEEAPPPALP
 PPPRPVADKDTSESSSGSATQNTKERPPTELSTTEAATTPALPAPTLQPRTLNPASKWSKIQIVTKQTG
 SECVTAIEIVPATPAGMRPAANVARKFASIARNQVRKKRQMAARERKVRTIFAILLAFILTWTPYNVMV
 LVNTFCQSCIPERVWSIGYWLVCYVNSTINPACYALCNATFKKTRHLLLCQYRNIGTAR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

ACCN: NM_007699

ORF Size: 1440 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

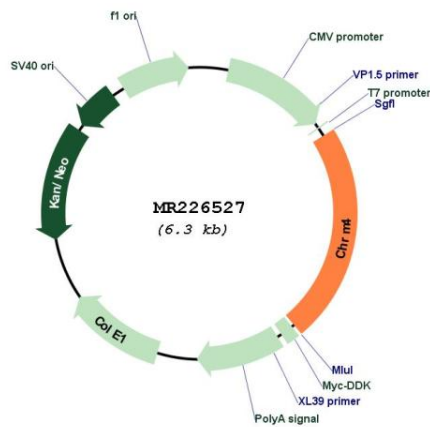
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_007699.2, NP_031725.1](#)
 RefSeq Size: 2768 bp
 RefSeq ORF: 1440 bp
 Locus ID: 12672
 UniProt ID: [P32211](#)
 Cytogenetics: 2 50.63 cM
 MW: 53 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 inhibition of adenylate cyclase.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226527