

Product datasheet for **MR212131**

Chrm2 (NM_203491) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chrm2 (NM_203491) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chrm2
Synonyms:	AChR-M2; Chrm-2; M2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR212131 representing NM_203491
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATAACTCAACTAATCCTCGAACAATGGTTGGCTATTACCAGTCCTTACAAGACATTTGAAGTGG
 TATTTATTGTCCTTGTGGCTGGATCCCTCAGTCTGGTGACCATCATTGGGAACATTCTAGTCATGGTTTC
 CATTAAAGTCAACCGCCACCTTCAGACTGTCAACAATTACTTCTTGTTCAGCCTGGCCTGTGCTGACCTC
 ATCATAGGTGTTTTCTCCATGAACCTGTATACCCTCTACACTGTGATTGGCTACTGGCCTTTGGGACCTG
 TAGTGTGCGACCTTTGGCTAGCCTTGGACTATGTTGTCAGCAATGCCTCCGTTATGAATCTTCTCATCAT
 CAGCTTTGATAGATACTTCTGTGTACAAAACTCTAACCTACCCAGTTAAGCGGACCACAAAAATGGCA
 GGCATGATGATTGCAGCTGCGTGGGTTCTTTCCTTCATCCTCTGGGCCCCAGCCATTCTCTTCTGGCAGT
 TCATCGTAGGGTAAGGACTGTGAAGACGGGGAGTGCTACATTCAGTTCTTTTCCAACGCTGCCGTAC
 CTTTGGCACTGCCATTGGGCTTCTATCTGCCTGTCATCATCATGACTGTGCTCTATTGGCACATATCC
 CGGGCAGCAAGAGCAGAATAAAGAAAAGAAAAGAAAGGAACCAAGTGGCCAACCAAGACCCGGTGTCTCCGA
 GTCTAGTGCAAGGAAGAATTGTAAGGCCAAACAACAACATGCCTGGTGGTGTGTTGGCCTGGAGCA
 CAACAAGATCCAGAAATGGCAAGGCTCCGCGGGACGGTGGGACTGAAAAGTGCCTTCAAGGGGAGGAGAAA
 GAAAGTCCAACGACTCCACGCTGTGTCAGTGCCGTGGCCTCCAACATGAGAGATGATGAGATAACCCAGG
 ATGAAAACACGGTTTCCACTTCCCTGGGCCACTCCAAAGATGACAACCTTAGGCAGACATGCATCAAAAT
 TGTCAACAAGACCCAAAAGGGTGACGCATGCACACCAACAAGTACCACAGTAGAACTAGTGGGATCGTCA
 GGTCAGAATGGTGTGAAAAGCAGAATTTGTAGCCCGAAAATTTGTGAAGATGACCAAGCAGCCTGCCA
 AAAAGAAGCCTCCTCCATCCCGGAAAAGAAAAGTACCAGGACAATCTTGGCTATCTGTGGCTTTTCA
 CATCACGTGGGCCCATACAATGTCATGGTGTCTCATCAATACCTTCTGTGCACCCTGCATCCCAATACA
 GTGTGGACAATTGGCTACTGGCTCTGTTACATTATAGCACCATCAACCCTGCCTGCTATGCACTTTGTA
 ACGCCACCTTCAAAAAGACTTTTAAAGCACCTCCTATGTGTCATTACAAGAACATAGGCGCTACAAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR212131 representing NM_203491
 Red=Cloning site Green=Tags(s)

MNNSTNSSNGLAITSFYKTFEVFIVLVAGSLSLVTIIGNILVMVSIKVNRLQTVNNYFLFLACADL
 IIGVFSMNLTYLYTVIGYWPLGPVVCDLWLALDYVVSNASVMNLLIISFDRYFCVTKPLTYPVKRTTKMA
 GMMIAAAWVLSFILWAPAILFWQFIVGVRTVEDGECYIQFFSNAAVTFGTAAAFYLPVIIMTVLYWHIS
 RASKSRIKKEKKEPQANQDPVSPSLVQGRIVKPNNNMPGGDGGLEHNKIQNGKAPRDGGTENCVQGEK
 ESSNDSTSVSAVASNMRDDEITQDENTVSTSLGHSKDDNSRQTCIKIVTKTQKGDACTPTSTTVLGVSS
 GQNGDEKQNIIVARKIVKMTKQPAKKKPPPSREKKVTRTRILAILLAFIITWAPYNNMVLINTFCAPCIPNT
 VWTIGYWLICYINSTINPACYALCNATFKKTFKLLMCHYKNIGATR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9026_e04.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_203491

ORF Size: 1398 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.

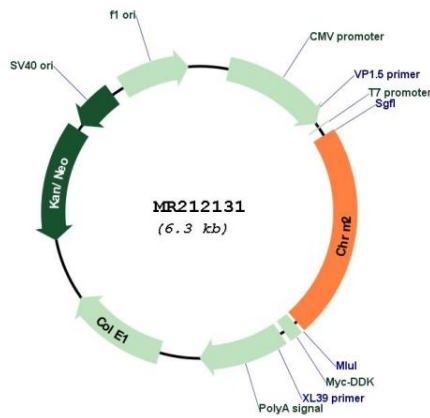
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_203491.3, NP_987076.2](#)
RefSeq Size: 1401 bp
RefSeq ORF: 1401 bp
Locus ID: 243764
UniProt ID: [Q9ERZ4](#)
Cytogenetics: 6 B1
MW: 51.9 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 adenylate cyclase inhibition. Signaling promotes phospholipase C activity, leading to the release of inositol trisphosphate (IP3); this then triggers calcium ion release into the cytosol (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR212131