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Product datasheet for MG221834

Chrm1 (NM_007698) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chrm1 (NM_007698) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chrm1
Synonyms:	Chrm-1; M1; M1R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>MG221834 representing NM_007698
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACACCTCAGTGCCCCCTGCTGTCAGTCCCAACATCACCGTCTTGGCACCAGGAAAGGGTCCCTGGC
AAGTGGCATTCATCGGGATCACCACAGGCCTCCTGTCTCTGGCTACAGTGACAGGCAACCTGCTGGTGCT
CATCTCCTTCAAGGTCAACACAGAGCTCAAGACAGTCAACAACTACTTCCTGCTGAGCCTGGCCTGTGCT
GATCTCATCATTGGCACTTTCTCCATGAACCTCTATACCACATACCTGCTCATGGGCCACTGGGCTCTGG
GCACACTGGCCTGTGACCTCTGGCTGGCCCTGGACTATGTGGCCAGCAACGCCTCTGTCATGAATCTTCT
GCTCATCAGCTTTGACCGTTACTTCTCAGTGACCCGACCCCTGAGCTACCGAGCCAAGCGCACTCCCCGC
AGGGCAGCTCTGATGATTGGCCTCGCGTGGTTGGTTTCCTTCGTTCTCTGGGCCCCAGCCATCCTCTTCT
GGCAATACCTAGTTGGGGAGCGGACAGTGCTGGCTGGGCAGTGCTACATCCAGTTCCTCTCCCAACCCAT
CATCACTTTTGGCACAGCCATGGCCGCCTTCTACCTCCCTGTCACAGTCATGTGTACGCTGTACTGGCGC
ATCTACCGGGAGACAGAAAACCGAGCCCGGGAGCTAGCAGCCCTACAGGGCTCTGAGACACCAGGCAAAG
GTGGTGGCAGCAGCAGCAGCTCAGAGAGGTCACAGCCAGGAGCTGAAGGCTCACCCGAGTCACCTCCAGG
CCGCTGCTGTCGCTGTTGCCGGGCACCCAGACTTCTGCAGGCCTACAGCTGGAAAGAAGAAGAGGAAGAG
GATGAAGGCTCCATGGAGTCCCTCACATCCTCTGAAGGTGAGGAGCCTGGCTCAGAAGTGGTGATCAAGA
TGCCTATGGTAGATCCTGAGGCACAGGCACCCACCAAGCAGCCTCCCAAAAGCTCCCCAAATACAGTCAA
GAGGCCCACCAAGAAAGGCCGAGACCGAGGCGGCAAAGGCCAAAAACCCCGAGGGAAGGAACAACTGGCC
AAGAGAAAGACCTTCTCACTGGTCAAGGAGAAGAAGGCAGCTCGGACCCTGAGTGCCATCCTGCTGGCCT
TCATCCTCACCTGGACACCATATAACATCATGGTGCTGGTGTCTACATTCTGCAAGGACTGTGTTCCAGA
AACCCTATGGGAGCTGGGCTACTGGCTTTGCTACGTCAACAGCACTGTCAACCCCATGTGCTACGCACTC
TGCAACAAAGCCTTCCGGGACACTTTCCGCCTGCTGTTGCTCTGCCGCTGGGACAAGCGGCGCTGGCGCA
AAATCCCCAAGCGCCCTGGCTCTGTGCACCGCACCCCCTCCCGCCAATGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG221834 representing NM_007698
Red=Cloning site Green=Tags(s)

MNTSVPPAVSPNITVLAPGKGPWQVAFIGITTGLLSLATVTGNLLVLISFKVNTELKTVNNYFLLSLACA
DLIIGTFSMNLYTTYLLMGHWALGTLACDLWLALDYVASNASVMNLLLISFDRYFSVTRPLSYRAKRTPR
RAALMIGLAWLVSFVLWAPAILFWQYLVGERTVLAGQCYIQFLSQPIITFGTAMAAFYLPVTVMCTLYWR
IYRETENRARELAALQGSETPGKGGGSSSSSERSQPGAEGSPESPPGRCCRCCRAPRLLQAYSWKEEEEE
DEGSMESLTSSEGEEPGSEVVIKMPMVDPEAQAPTKQPPKSSPNTVKRPTKKGRDRGGKGQKPRGKEQLA
KRKTFSLVKEKKAARTLSAILLAFILTWTPYNIMVLVSTFCKDCVPETLWELGYWLCYVNSTVNPMCYAL
CNKAFRDTFRLLLLCRWDKRRWRKIPKRPGSVHRTPSRQC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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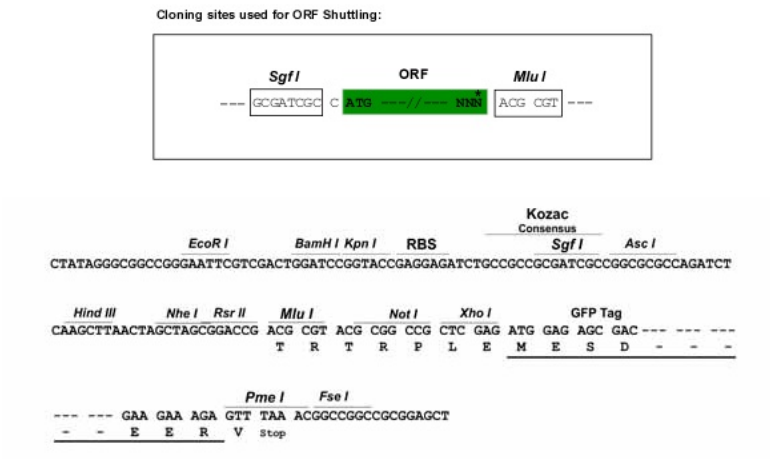
Cloning Scheme:



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

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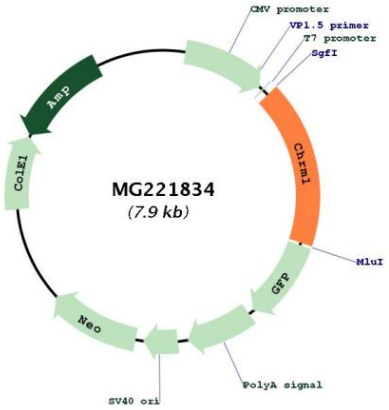
Gene Summary: The muscarinic acetylcholine receptor mediates various cellular responses, including inhibition of adenylate cyclase, breakdown of phosphoinositides and modulation of potassium channels through the action of G proteins. Primary transducing effect is Pi turnover.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG221834

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