

Product datasheet for **RR214906**

Chrm4 (NM_031547) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chrm4 (NM_031547) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chrm4
Synonyms:	M4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR214906 representing NM_031547
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCAACCTCACGCCTGTCAATGGCAGCTCAGCCAATCAGTCTGTGCGCTGGTCACAGCAGCCACA
 ACCACCTGGAGACAGTGGAGATGGTGTTCATTGCTACAGTGAAGTCCCTGAGCCTGGTACTGTTGT
 GGGTAACATCCTGGTGTGCTGTCCATCAAGGTCAACAGGCAGTTGCAGACGGTCAACAACACTTCTCCT
 TTCAGCCTGGCGTGTGCGGATCTCATATAGGGCATTCTCTATGAACCTCTACACTTTGTATATCATCA
 AGGGCTACTGGCCCTGGGTGCCGTGGTCTGTGACTTGTGGTGGCCCTGGACTATGTGGTGAAGCAATGC
 CTCTGTATGAACCTTCTATCATCAGCTTCGATCGTTACTTCTGCGTCACCAAACCCCTCACCTATCCC
 GCCCGCCGACTACTAAGATGGCAGGTCTCATGATCGCAGCTGCCTGGTCTTGCCTTTGTCTGCTGGG
 CTCTGCCATCTGTTCTGGCAGTTTGGTGGGCAAGAGGACGGTGCCTGATAACCAGTCTTCATCCA
 GTTCTTGTCCAACCCGGCAGTGACCTTTGGCACCCTTGTCTGCCTTCTACCTGCCTGTGGTTCATCATG
 ACGGTACTGTATATTACATCTCACTGGCCAGCCGAGCCGCTTCAAGCATCGACCTGAGGGCCCA
 AGGAGAAGAAGCCAAGACTCTGGCTTCTCAAGAGCCCTCTGATGAAGCCGAGTATCAAGAACTCC
 ACCAGGGGGCGCTTCTCGAGAGAACTGCGCAATGGGAAGCTGGAAGAGGCTCCTCCGCCAGCCCTGCC
 CCGCTCCACGCCAGTGCCTGACAAGGACACTTCCAATGAGTCCAGCTCAGGCAGTCCACCCAGAACA
 CCAAGGAACGGCCACCCACAGAGCTGTCCACCCGAGAGCCACCACTCCAGCGTGCCTGCCCTACCT
 GCAGCCACGAACCTCAACCCAGCTCCAAATGGTCCAAGATTCAAATGTAACAAAGCAGACAGGCAAT
 GAATGTGTGACGGCCATCGAGATTGTACCTGCCACTCCAGTGGTATGCGCCAGCAGCAATGTGGCC
 GAAAGTTTGCCAGCATTGCTCGCAACAGGTGCGCAAGAAGCGGAGATGGCGGCCGGGAGCGCAAATG
 GACTCGGACAATCTTTGCCATTCTGCTGGCTTCACTCCTCACCTGGACACCCTACAATGTATGGTCTG
 GTGAACACCTTTTGCAGAGCTGTATCCCGAGAGGGTGTGGTCCATCGGCTACTGGCTCTGCTACGTCA
 ACAGCACCATCAACCCCGCTGTATGCACTCTGCAATGCCACTTTCAAAAAGACCTTCCGGCACCTTTT
 GCTGTGCCAGTATCGGAACATCGGCACAGCCAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR214906 representing NM_031547
 Red=Cloning site Green=Tags(s)

MANFTPVNGSSANQSVRLVTAAHNHLETVEMVFIATVTGSLSLVTVVGNILVMLSIKVNRLQTVNNYFL
 FSLACADLIIGAFSMNLYLYIIGYWPLGAVVCDLWLALDYVVSNASVMNLLIISFDRYFCVTKPLTYP
 ARRTTKMAGLMIAAAWVLSFVLWAPAILFWQFVVGKRTVPDNQCFIQFLSNPAVTFGTAAAFYLPVVIM
 TVLYIHSLSASRSRVHKHRPEGPKEKAKTLAFLKSPLMKPSIKKPPPGGASREELRNGLEEAPPALP
 PPRPVPDKDTSNESSGSATQNTKERPPTELSTAEATPALPAPTLQPRTLNPAKWSKIQIVTKQTGN
 ECVTAIEIVPATPAGMRPAANVARKFASIAARNQVRKRQMAARERKVTRTIFAILLAFILTWTPYNMVL
 VNTFCQSCIPERVWSIGYWLVCYVNSTINPACYALCNATFKKTRHLLLCQYRNIGTAR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja2808_f02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_031547

ORF Size: 1434 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_031547.1](#), [NP_113735.1](#)

RefSeq Size: 2768 bp

RefSeq ORF: 1437 bp

Locus ID: 25111

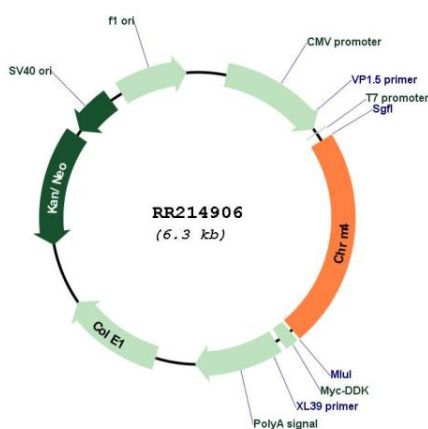
UniProt ID: [P08485](#)

Cytogenetics: 3q24

MW: 52.9 kDa

Gene Summary: a G-protein coupled receptor for acetylcholine; important for mediating the effects of acetylcholine in the nervous system, exocrine glands and smooth muscle [RGD, Feb 2006]

Product images:



Circular map for RR214906