

Product datasheet for **RN214906**

Chrm4 (NM_031547) Rat Untagged Clone

Product data:

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



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Fully Sequenced ORF: >RN214906 representing NM_031547
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAACCTTCACGCCTGTCAATGGCAGCTCAGCCAATCAGTCTGTGCGCTGGTCACAGCAGCCACA
 ACCACCTGGAGACAGTGGAGATGGTGTTCATTGCTACAGTACTGGCTCCCTGAGCCTGGTACTGTTGT
 GGGTAACATCCTGGTGATGCTGTCCATCAAGGTCAACAGGCAGTTGCAGACGGTCAACAACACTTCTCCTC
 TTCAGCCTGGCGTGTGCGGATCTCATATAGGGCATTCTCTATGAACCTCTACACTTTGTATATCATCA
 AGGGTACTGGCCCTGGGTGCCGTGGTCTGTGACTTGTGGTGGCCCTGGACTATGTGGTGAAGCAATGC
 CTCTGTCAAGCCTTCTATCATCAGCTTCGATCGTTACTTCTGCGTCACCAAACCCCTCACCTATCCC
 GCCCGCCGACTACTAAGATGGCAGGTCTCATGATCGCAGCTGCCTGGTCTTGCCTTTGTGCTCTGGG
 CTCTGCCATCTGTTCTGGCAGTTTGGTGGGCAAGAGGACGGTGCCTGATAACCAAGTCTTCATCCA
 GTTCTTGTCCAACCCGGCAGTGACCTTTGGCACCATTGCTGCCTTCTACCTGCCTGTGGTCATCATG
 ACGGTACTGTATATTACATCTCACTGGCCAGCCGAGCCGCTTCAAGCATCGACTGAGGGCCCCA
 AGGAGAAGAAGGCCAAGACTCTGGCTTCTCAAGAGCCCTCTGATGAAGCCGAGTATCAAGAACTCC
 ACCAGGGGGCGCTTCTCGAGAGGAAGTGCCTCAATGGGAAGCTGGAAGAGGCTCCTCCGCCAGCCCTGCC
 CCGCTCCACGCCAGTGCCTGACAAGGACTTCCAATGAGTCCAGCTCAGGCAGTCCACCCAGAACA
 CCAAGGAACGGCCACCCACAGAGCTGTCCACCCGAGAGCCACCACTCCAGCGTGCCTGCCCTACCT
 GCAGCCACGAACCTCAACCCAGCCTCCAAATGGTCCAAGATTCAAATTGTAACAAAGCAGACAGGCAAT
 GAATGTGTGACGGCCATCGAGATTGTACCTGCCACTCCAGCTGGTATGCGCCAGCAGCCAATGTGGCC
 GAAAGTTTGCAGCATTGCTCGCAACAGGTGCGCAAGAAGCGGCAGATGGCGCCGGGAGCGCAAAGT
 GACTCGGACAATCTTTGCCATTCTGCTGGCCTTCACTCCTCACCTGGACACCCTACAATGTATGGTCTGT
 GTGAACACCTTTTGCAGAGCTGTATCCCCGAGAGGGTGTGGTCCATCGCTACTGGCTCTGCTACGTCA
 ACAGCACCATCAACCCCGCTGTATGCACTCTGCAATGCCACTTTCAAAAAGACCTTCCGGCACCTTTT
 GCTGTGCCAGTATCGGAACATCGGCACAGCCAG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2050_a04.zip

Restriction Sites: SgfI-MluI

ACCN: NM_031547

Insert Size: 1437 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](#)

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:	<ol style="list-style-type: none">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:	<u>NM_031547.1</u> , <u>NP_113735.1</u>
RefSeq Size:	2768 bp
RefSeq ORF:	1437 bp
Locus ID:	25111
UniProt ID:	<u>P08485</u>
Cytogenetics:	3q24
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]