

## Product datasheet for **RC204040**

### **CHRNA1 (NM\_000747) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CHRNA1 (NM_000747) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CHRNA1
Synonyms:	ACHRB; CHRNA1; CMS1D; CMS2A; CMS2C; SCCMS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC204040 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACCCAGGGCTCTGCTGATGCTGCTGGGGCGCTGGGGCGCCGCTCGCCCAGGCGTCCGCGGCT  
 CGGAGGCGGAGGTCGACTCCGGGGAACTTTCTCTGGCTATGATAGCTCCGTGCGGCCAGCGGGGA  
 GGTGGGAGACCGTGTGAGGTCAGCGTTGGTCTCATCCTGGCGCAACTCATCAGCCTGAACGAGAAGGAT  
 GAAGAGATGAGCACAAGGTGTACTTAGACCTGGAGTGGACTGACTACAGGCTGAGCTGGGACCCTGCGG  
 AGCAGCAGCGCATCGATTCGCTCCGCATCACGGCGGAATCCGTGTGGCTCCCTGACGTGGTCTACTGAA  
 CAACAATGATGGGAATTTTACGTGGCTCTGGACATTAGCGTCGTGGTGTCTCCGACGGCTCCGTGCGT  
 TGGCAACCCCGGCATCTATCGCAGCAGCTGCAGCATCCAGGTCACCTACTTCCCCTTCGACTGGCAGA  
 ATTGCACTATGGTGTTCAGCTCTACAGCTACGACAGCTCGGAGGTCAGCCTGCAGACAGGCTGGGTCC  
 TGACGGCAAGGGCATCAGGAAATCCACATTCATGAAGGACTTTCATTGAGAATGGCCAGTGGGAGATT  
 ATCCACAAGCCCTCTCGGCTAATCCAGCCTCCAGGCGATCCTAGGGGAGGGAGGGAAGGACAGCGCCAGG  
 AAGTCATCTTCTACCTCATCATCCGCCGAAGCCTCTCTTCTACCTGGTCAACGTCATTGCCCATGCAT  
 CCTCATCACTCTTCTGGCCATCTTCGTCTTCTACCTGCCACCAGATGCAGGAGAGAAGATGGGGCTCTCA  
 ATCTTTGCCCTGTGACCCCTTACTGTGTTCTGTGCTGCTGGCTGACAAAGTACCTGAGACCTCACTAT  
 CAGTACCATTATTATCAAGTACCTCATGTTTACCATGGTCTCGTCACCTTCTCAGTCATCCTTAGTGT  
 CGTGGTTCTCAACCTGCACCACCCTCACCCACACCCACAAATGCCCTTTGGGTCCGTCAGATCTTC  
 ATTCACAACTCCGCTGTACCTGCGTCTAAAAAGGCCAAACCCGAGAGAGACCTGATGCCGAGCCCAAG  
 CTCACTGTTCTTCTCAGGAAGTGGCTGGGGTCGGGGAACAGATGAATATTTTCATCCGGAAGCCCAAG  
 TGATTTTCTTCCCAAACCAATAGGTTCCAGCCTGAACTGTCTGCCCTGATCTGCGGCGATTATC  
 GATGGTCAAACCGGGCTGTGGCCCTGCTTCCGGAGCTACGGGAGGTCGTCCTCTATCAGCTACATCG  
 CTCGACAGCTGCAGGAACAGGAGGACCAGATGCGCTGAAGGAGGACTGGCAGTTTGTGGCCATGGTAGT  
 GGACCGCCTTCTCTGTGGACTTTCATCATCTTACCAGCGTTGGGACCCTAGTCATCTTCTGGACGCC  
 ACGTACCCTTGGCCCTCCAGACCCCTTCTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC204040 protein sequence  
 Red=Cloning site Green=Tags(s)

MTPGALLMLLALGAPLAPGVRGSEAEGRRLRGLFSGYDSSVRPAREVGDVRVSVGLILAQLISLNEKD  
 EEMSTKVYLDLEWTDYRLSWDPAEHDGIDSLRITAESVWLPDVLLNNNDGNFYVALDISVVVSSDGSVR  
 WQPPGIYRSSCSIQVYFDFWQNTMVFSSYSYDSSEVSLQTLGPDGQGHQEIHIHEGTFIENGQWEI  
 IHKPSRLIQPPGDPREGREGQRQEVIFYLIRRKPLFYLVNVIAPCILITLLAIFVFYLPDAGEKMGLS  
 IFALLTLTVFLLLADKVPETSLVPIIHKYLMFTMVLVTFVILSVVVLNLHHRSPHTHQMLVWRQIF  
 IHKLPLVLRKRPKPERDLMPEPPHCSSPGSGWGRGTDEYFIRKPPSDFLFPKPNRFQPELSAPDLRRFI  
 DGPNRAVALLPELREVSSISYIARQLQEEDHDALKEDWQFVAMVVDRLFLWTFIIFTSVGLVIFLDA  
 TYHLPPDPFP

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6565\\_d12.zip](https://cdn.origene.com/chromatograms/mk6565_d12.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_000747

**ORF Size:** 1503 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\\_000747.3](#)

**RefSeq Size:** 2437 bp

**RefSeq ORF:** 1506 bp

**Locus ID:** 1140

**UniProt ID:** [P11230](#)

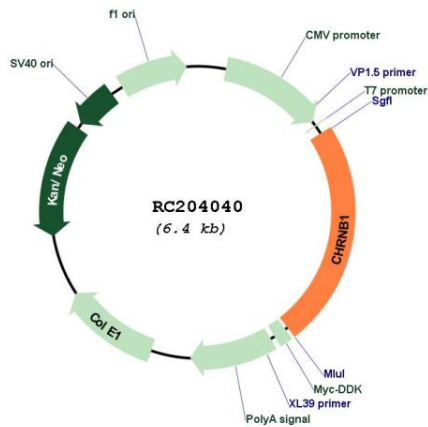
**Cytogenetics:** 17p13.1

**Protein Families:** Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane

**MW:** 56.7 kDa

**Gene Summary:** The muscle acetylcholine receptor is composed of five subunits: two alpha subunits and one beta, one gamma, and one delta subunit. This gene encodes the beta subunit of the acetylcholine receptor. The acetylcholine receptor changes conformation upon acetylcholine binding leading to the opening of an ion-conducting channel across the plasma membrane. Mutations in this gene are associated with slow-channel congenital myasthenic syndrome. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC204040