

## Product datasheet for **RC212536**

### CHRNA (NM\_005199) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CHRNA (NM_005199) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CHRNA
Synonyms:	ACHRG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC212536 representing NM\_005199  
**Red**=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCATGGGGGCCAGGGGCCGCTGCTCCTCTGCTGCTGCTGGTGTCTGCCTGGGGGCCAGGGCCGGA  
 ACCAGGAGGAGCCCTGCTCGCAGACCTGATGCAAACTACGACCCAACTGCGCCCGCGGAACGAGA  
 CTCGGATGTGGTCAATGTGAGCTGAAGCTAACCTCACCAACCTCATCTCCCTGAACGAGCGAGAGAA  
 GCCCTCACCAATGTCTGGATAGAGATGCAGTGGTGGACTATCGCTGCGCTGGGATCCGCGAGACT  
 ACGAAGGCTGTGGGTGCTGAGGTTGCCGTCACCATGGTGTGGCGGCCGATATCGTGTGGAGAACAA  
 CGTGGACGGTGTCTCGAGGTGGCCCTACTGCAATGTCTGCTGCTCCCTGACGGTGTATCTACTGG  
 CTGCCGCTGCCATCTCCGTTCCGCTGCTCTATCTCAGTCACCTACTCCCCTTCGACTGGCAGAACT  
 GCTCCCTATCTCCAGTCCAGACTTACAGACCAATGAGATTGATCTGCAGCTGAGTCAGGAAGATGG  
 CCAGACCATCGAGTGGATTTTCATTGACCTGAGGCCTCACAGAGAATGGGAGTGGGCCATCCAGCAC  
 CGACCAGCAAGATGCTCCTGGACCCAGCGGCCAGCCAGGAAGCAGGCCACCAAGGTTGGTGTCT  
 ACCTGCTCATCCAGCGCAAGCCCCTCTTACGTCAACATCATCGCCCCCTGTGTGCTCATCTCCTC  
 TGTGCGCATCCTCATCCACTTCCCTTCTGCAAGGCTGGGGGCCAGAAGTGTACCCTGCGCATCAACGTG  
 CTCTGGCCAGACTGTCTTCTCTTCTTGTGGCCAAGAAGGTGCCTGAAACCTCCCAGGCGGTGCCAC  
 TCATCAGCAAGTACCTGACCTTCTCCTGGTGGTACCATCCTCATTGTCGTGAATGCTGTGGTTGTGCT  
 CAATGTCTCCTTGGGTCTCCACACACACTCCATGGCCGAGGGGTCCGCAAGGTGTTCTGAGGCTC  
 TTGCCAGCTGCTGAGGATGCAGTTCGCCGCTGGCCCGGAGCTGTGCAGGACACCCAGTCCCGGC  
 TACAGAATGGCTCCTCGGGATGGTGCATCAACTGGGAGGAGGTGGCCCTCGCTCGCTCGCATGTA  
 ACTCCTCTCCAGCAGTGGCAGCGGCAAGGGCTGGTGGCGGAGCGCTGGAGAAGCTAGAGAAAGGCCCG  
 GAGTTAGGGCTGAGCCAGTTCTGTGGCAGCCTGAAGCAGGCTGCCCCAGCCATCCAGGCCTGTGTGAAG  
 CCTGCAACCTCATTGCCTGTGCCCGCACCAGCAGAGTCACTTTGACAATGGGAATGAGGAGTGGTTCT  
 GGTGGGCCGAGTGTGGACCGCTCTGCTTCTGGCCATGCTCTCGCTCTTATCTGTGGCACAGCTGGC  
 ATCTTCTCATGGCCACTACAACCGGGTGGCCGCTGCCATTCCCTGGAGATCCACGCCCTACCTGC  
 CCTCACCAGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC212536 representing NM\_005199  
**Red**=Cloning site **Green**=Tags(s)

MHGGQGPLLLLLLLAVCLGAQGRNQEERLLADLMQNYDPNLRPAERDSVNVVSLKLTLTNLIISLNEREE  
 ALTTNVWIEMQWCDYRLRWDPRDYEGLWVLRVPSTMVWRPDIIVLENNVDGVFEVALYCNVLYSPDGIYW  
 LPPAIFRSACISVYTFPFWDQNCSLIFQSQTYSTNEIDLQLSQEDGQTIEWIFIDPEAFTENGWAIQH  
 RPAKMLLDPAAPAEAGHQKVVFYLLIQRKPLFYVINIIAPCVLISSVAILIHFLPAKAGGQKCTVAINV  
 LLAQTVFLFLVAKKVPETSQAVPLISKYLTFLLVVTILIVVNAVVVNLVSLRSPHSMARGVRKVFRLR  
 LPQLLRMHVRPLAPAAVQDTQSRLQNGSSGWSITTGEEVALCLPRSELLFQQWQRQGLVAAALEKLEKGP  
 ELGLSQFCGSLKQAAPAIQACVEACNLIAACARHQQSHFDNGNEEWFLVGRVLDVCFVLAFLSIFICGTAG  
 IFLMAHYNRVPALPFPDPRPYLPSPD

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8008\\_c06.zip](https://cdn.origene.com/chromatograms/mk8008_c06.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_005199

**ORF Size:** 1551 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\\_005199.5](#)

**RefSeq Size:** 2187 bp

**RefSeq ORF:** 1554 bp

**Locus ID:** 1146

**UniProt ID:** [P07510](#)

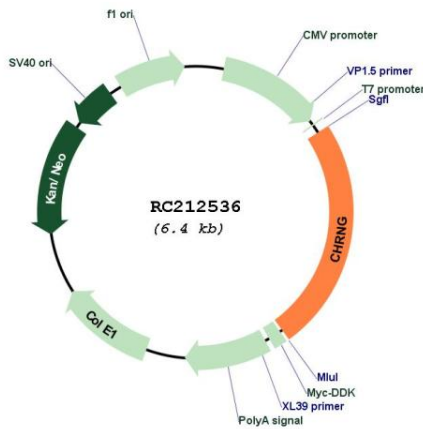
**Cytogenetics:** 2q37.1

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

**MW:** 57.88 kDa

**Gene Summary:** The mammalian muscle-type acetylcholine receptor is a transmembrane pentameric glycoprotein with two alpha subunits, one beta, one delta, and one epsilon (in adult skeletal muscle) or gamma (in fetal and denervated muscle) subunit. This gene, which encodes the gamma subunit, is expressed prior to the thirty-third week of gestation in humans. The gamma subunit of the acetylcholine receptor plays a role in neuromuscular organogenesis and ligand binding and disruption of gamma subunit expression prevents the correct localization of the receptor in cell membranes. Mutations in this gene cause Escobar syndrome and a lethal form of multiple pterygium syndrome. Muscle-type acetylcholine receptor is the major antigen in the autoimmune disease myasthenia gravis.[provided by RefSeq, Sep 2009]

**Product images:**



Circular map for RC212536