

## Product datasheet for **RC210881**

### CHRND (NM\_000751) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CHRND (NM_000751) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CHRND
Synonyms:	ACHRD; CMS2A; CMS3A; CMS3B; CMS3C; FCCMS; SCCMS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC210881 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGGGGCCAGTGCTGACACTGGGGCTGCTGGCTGCCCTGGCGGTGTGTGGCAGCTGGGGCTGAACG  
 AGGAGGAGCGGCTGATCCGGCACCTGTTTCAAGAGAAGGGCTACAACAAGGAGCTCCGGCCGTGGCACA  
 CAAAGAGGAGAGTGTGGACGTTGCCCTGGCCCTCACACTCTCAAACCTCATCTCCCTGAAAAGAGTTGAG  
 GAGACCCTCACTACCAATGTGTGGATAGAGCACGGCTGGACAGACAACCGGCTGAAGTGAATGCTGAAG  
 AATTTGAAACATCAGTGTCTGCGCCTCCCCCGGACATGGTGTGGCTCCCAGAGATTGTCTGGAGAA  
 CAACAATGACGGCTCCTCCAGATCTCTACTCTGCAACGTGCTTGTCTACCACTACGGCTTCGTGTAC  
 TGGCTGCCACCTGCCATCTCCGCTCCTCTGCCCATCTCTGTACCTATTTCCCTTCGACTGGCAGA  
 ACTGCTCCCTCAAGTTCAGTTCCTCAAGTATACGGCCAAAGAGATCACCTGAGCCTGAAACAGGATGC  
 CAAGGAGAACCGCACCTACCCCGTGGAGTGGATCATCATTGATCCTGAAGGCTTCACAGAGAACGGGGAG  
 TGGGAGATAGTCCACCGCCGGCCAGGGTCAACGTGGACCCAGAGCCCTCTGGACAGCCCGAGCCGCC  
 AGGACATCACCTTCTACCTCATCATCCGCCGAAGCCCTCTTCTACATCATCAACATCCTGGTGCCTG  
 CGTGCTCATCTCCTTTCATGGTCAACCTGGTCTTCTACCTACCGGCTGACAGTGGTGAAGAAGATCAGTG  
 GCCATCTCGGTGCTCCTGGCTCAGTCTGTCTTCTGCTGCTCATCTCCAAGCGTCTGCCTGCCACATCCA  
 TGGCCATCCCCCTTATCGGCAAGTTCCTGCTCTTCGGCATGGTGTGGTCAACATGGTGTGGTGTCTG  
 TGTATCGTGTCAACATCCACTCCGAACACCCAGCACCATGTGCTGTCTGAGGGGTCAAGAAGCTC  
 TTCTGGAGACCCTGCCGAGCTCCTGCATGTCCCAGCCAGCAGAGGATGGACCCAGCCCTGGGGCCC  
 TGGTGGGAGGAGCAGCTCCCTGGGATACATCTCCAAGGCCAGGAGTACTTCTGCTCAAGTCCCGCAG  
 TGACCTCATGTTGAGAAGCAGTCAGAGCGCATGGGCTGGCCAGGCGCCTCACCACTGCACCGCCGCC  
 CCAGCAAGCTCTGAGCAGGCCAGCAGGAATCTTCAATGAGCTGAAGCCAGCTGTGGATGGGGAAACT  
 TCATTGTTAACCACATGAGGGACCAGAACAATTACAATGAGGAGAAAGACAGCTGGAACCGAGTGGCCCG  
 CACAGTGGACCGCCTCTGCCTGTTTGTGGTACGCCTGTATGGTGGTGGGCACAGCCTGGATCTTCTG  
 CAGGGCGTTTACAACCAGCCACCACCCAGCCTTTTCTGGGGACCCCTACTCTACAACGTGCAGGACA  
 AGCGCTTCATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC210881 protein sequence  
 Red=Cloning site Green=Tags(s)

MEGPVLTLLAALAVCGSWGLNEEERLIRHLFQEKGYNKELRPVAHKEESVDVALALTLNLSLKEVE  
 ETLTTNVWIEHGWDNRLKWNAAEFGNISVLRPLPPDMVWLPEIVLENNNDGSFQISYSCNVLVYHYGFVY  
 WLPPAIFRSSCPISVYFPPFDWQNSLKFSSLYTAKEITLSLKQDAKENRTYPVEWIIIDPEGFTENGE  
 WEIVHRPARVNVDPRAPLDSPSRQDITFYLIIRKPLFYIINILVPCVLI SFMVNLVFYLPADSGEKT  
 AISVLLAQSVFLLLISKRLPATSMAIPLIGKFLFGMVLVTMVVVICVIVLNIHFRTSTHVLSEGVKLL  
 FLETLPPELLHMSRPAEDGSPGALVRRSSSLGYISKAEEYFLLKSRSDLMFEKQSERHGLARRLTTARRP  
 PASSEQAQQELFNELKPAVDGANFIVNHMRDQNNYNEEKDSWNRVARTVDRLCLFVVTPVMVVGTAWIFL  
 QGVYNQPPPQFPFGDPYSYNVQDKRFI

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6592\\_g09.zip](https://cdn.origene.com/chromatograms/mk6592_g09.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_000751

**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\\_000751.3](#)

**RefSeq Size:** 2963 bp

**RefSeq ORF:** 1554 bp

**Locus ID:** 1144

**UniProt ID:** [Q07001](#)

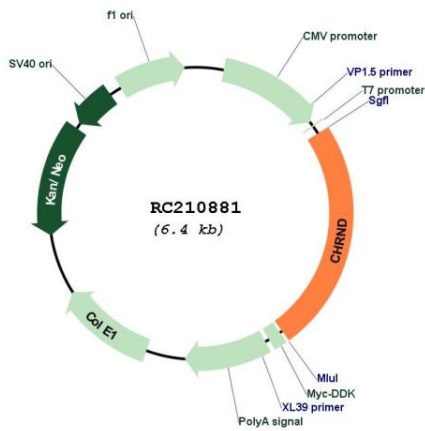
**Cytogenetics:** 2q37.1

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

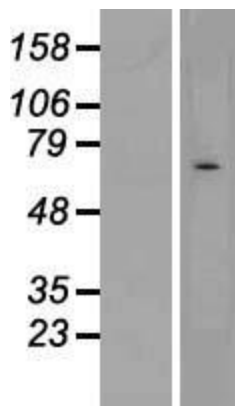
**MW:** 58.9 kDa

**Gene Summary:** The acetylcholine receptor of muscle has 5 subunits of 4 different types: 2 alpha and 1 each of beta, gamma and delta subunits. After acetylcholine binding, the receptor undergoes an extensive conformation change that affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane. Defects in this gene are a cause of multiple pterygium syndrome lethal type (MUPSL), congenital myasthenic syndrome slow-channel type (SCCMS), and congenital myasthenic syndrome fast-channel type (FCCMS). Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2015]

**Product images:**



Circular map for RC210881



Western blot validation of overexpression lysate (Cat# [LY424535]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210881 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).