

Product datasheet for **RC211880**

CHRNA9 (NM_017581) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHRNA9 (NM_017581) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CHRNA9
Synonyms:	HSA243342; NACHRA9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC211880 representing NM_017581
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGTGGTCCCATTCTCGATCTCCTTTTGGCTGGATCTACTTTGCTGCTTCCAGACTGAGAGCTGCAG
 AGACGGCAGATGGAAAATATGCTCAGAAGTTGTTAATGACCTTTTTGAAGATTATTCTAATGCTCTTCG
 TCCAGTGGAAAGATACAGATAAAGTCTGAATGTGACCCTGCAGATTACGCTCTCTCAGATTAAGGATATG
 GATGAAAGAAACCAAATTCTGACTGCTTATTTGTGGATCCGCCAAATCTGGCAGCATGCCTATCTCACGT
 GGGACCGAGATCAGTACGATGGCCTAGACTCCATCAGGATCCCCAGTGACCTCGTGTGGAGGCCAGACAT
 CGTCTTATATAACAAGGCTGATGATGAATCTTCAGAGCCTGTGAACACCAATGTGGTCTGCGGTATGAT
 GGGCTGATCACCTGGGATGCACCGGCCATACCAAAAAGCTCCTGTGTGGTGGATGCACCTACTTCCCTT
 TTGACAACCAGCAGTGAACCTGACTTTTGGTTCTGGACCTACAATGGCAATCAGGTGGACATATTCAA
 CGCCTTGGACAGCGGAGATCTCTGACTTCATGAAGATGTGGAATGGGAGGTCCATGGCATGCCCGCT
 GTGAAGAATGTGATCTCCTATGGCTGCTGCTCTGAGCCTTACCCGGATGTACATTACCCCTCCTTCTGA
 AGAGGAGTCTCGTTCTATATCGTCAACCTCCTCATCCCATGCGTCTCATATCTTTTCTGGCTCCTCT
 GAGTTTTTATCTCCAGCAGCCTCCGGAGAAAAGGTCTCCCTGGGAGTGACCATCCTGTTGGCCATGACT
 GTATTTTACGTAATGGTGGCAGAAATCATGCCGCCTCAGAAAATGTGCCCTGATAGGTAATACTACA
 TAGCCACGATGGCCCTGATCACAGCCTCCACTGCGTTGACCATCATGGTATGAATATCCACTTCTGTGG
 GGCCGAGGCCCGCCGGTCCACACTGGGCCAGGGTGGTATCCTGAAAATACATGTCCAGGGTCTTGT
 GTCTATGATGTGGGTGAAAGCTGCCTCAGCCCGCACACAGTAGAGAGCGGGACCACTCACGAAAGTTT
 ATAGCAAACTCCAGAGTCTAACCTGAAAGCAGCCAGGAACAAAGACCTTCCAGAAAGAAGGACATGAA
 CAAACGCTTAAAGAACGACCTGGGCTGCCAGGGTAAAGAACCTCAGGAGGCCGAGAGTTACTGTGCACAG
 TACAAAGTGTGACGAGGAATATTGAGTACATCGCCAAGTGCCTCAAAGACCACAAGGCCACCAAGTTCCA
 AGGGGAGTGAATGGAAGAAGGTGGCGAAAGTCATAGACCGATTCTTCATGTGGATTTTTTTCATTATGGT
 GTTTGTGATGACTATTTTATCATAGCAAGAGCGGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC211880 representing NM_017581
 Red=Cloning site Green=Tags(s)

MNWSHSCISFCWIYFAASRLRAAETADGKYAQLFNDFEDYSNALRPVEDTDKVLNVTLQITLSQIKDM
 DERNQILTAYLWIRQIWHDAYLTWDRDQYDGLDSIRIPSDLVWRPDIIVLYNKADDESSEPVNTNVVLRD
 GLITWDAPAITKSSCVVDVTFYFPFDNQCNLTFGSWTYNGNQVDIFNALDSGDLSDFIEDVEVEVHGMPA
 VKNVISYGCCSEPYPDVTFLLLRSSFYIVNLLIPCVLISFLAPLSFYLPAAASGEKVSLGVTILLAMT
 VFQLMVAEIMPASENVPLIGKYIATMALITASTALTIMYMNIFHFCGAEARVPVPHWARVVILKYMSRVLF
 VYDVGESCLSPHHSRERDHLTKVYSKLPESNLKAARNKDL SRKKDMNKRLKNDLGCQGNPQEAESYCAQ
 YKVLTRNIEYIAKCLKDHKATSSKGSEWKVAKVIDRFFMWIFFIMVFVMTILIIARAD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6098_c07.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_017581

ORF Size: 1437 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_017581.1](#)

RefSeq Size: 1892 bp

RefSeq ORF: 1440 bp

Locus ID: 55584

UniProt ID: [Q9UGM1](#)

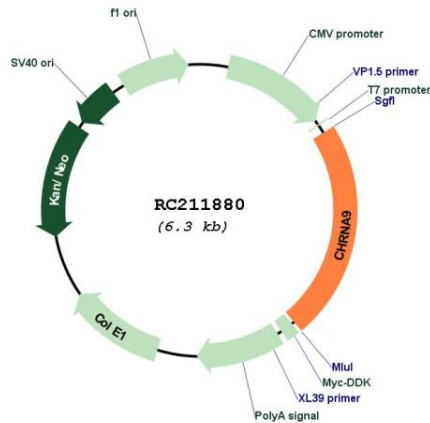
Cytogenetics: 4p14

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

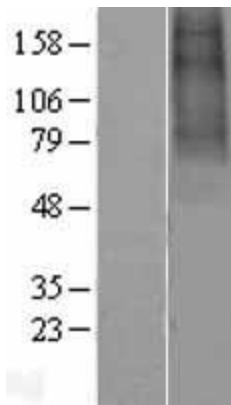
MW: 54.78 kDa

Gene Summary: This gene is a member of the ligand-gated ionic channel family and nicotinic acetylcholine receptor gene superfamily. It encodes a plasma membrane protein that forms homo- or hetero-oligomeric divalent cation channels. This protein is involved in cochlea hair cell development and is also expressed in the outer hair cells (OHCs) of the adult cochlea. [provided by RefSeq, Feb 2012]

Product images:



Circular map for RC211880



Western blot validation of overexpression lysate (Cat# [LY402600]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211880 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).