

Product datasheet for **RC222267**

CHRNA10 (NM_020402) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHRNA10 (NM_020402) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CHRNA10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC222267 representing NM_020402
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGCTCCGGAGCCACCCTCAGCCTGGGCCTTCTGTTTCTACTCCCTGCAGAGTGCCTGG
 GAGCTGAGGGCCGCTGGCTCTCAAGCTGTTCCGTGACCTCTTTGCCAACTACACAAGTGCCTGAGACC
 TGTGGCAGACACAGACCAGACTCTGAATGTGACCTGGAGGTGACACTGTCCCAGATCATCGACATGGAT
 GAACGGAACCAGGTGCTGACCCTGTATCTGTGGATACGGCAGGAGTGGACAGATGCCTACCTACGATGGG
 ACCCCAATGCCTATGGTGGCCTGGATGCCATCCGCATCCCAGCAGTCTTGTGTGGCGGCCAGACATCGT
 ACTCTATAACAAAGCCGACGCGCAGCCTCCAGGTTCCGCCAGCACCAACGTGGTCTGCGCCACGATGGC
 GCCGTGCGCTGGACGCGCCGCCATCACGCGCAGCTCGTCCGCGTGGATGTAGCAGCCTTCCCGTTCG
 ACGCCCAGCACTCGGCCCTGACGTTCCGCTCCTGGACTCACGGCGGGCACCAACTGGATGTGCGGCCGCG
 CGGCGCTGCAGCCAGCCTGGCGACTTCGTGGAGAACGTGGAGTGGCGGTGCTGGGCATGCCGGCGCGG
 CGGCGCGTGTCACTACGGCTGCTGCTCCGAGCCCTACCCCAGCTCACCTTACGCTGCTGCTGCC
 GCCGCGCCGCGCCTACGTGTGCAACCTGCTGCTGCCCTGCGTGCTCATCTCGTCTTGCGCCGCTCGC
 TTCCACCTGCCCTGCCACTCAGGCGAGAAGGTGTGCTGGGCGTACCCTGCTGCTGGCGCTACCCTGC
 TTCCAGTTGCTGCTGGCCGAGAGCATGCCACCGCCGAGAGCGTCCGCTCATCGGAAGTACTACATGG
 CCACTATGACCATGGTCACTTCTCAACAGCACTACCATCCTTATCATGAACCTGCATTACTGTGGTCC
 CAGTGTCCGCCAGTCCAGCCTGGGCTAGGGCCCTCTGCTGGGACACCTGGCACGGGGCTGTGCGTG
 CGGAAAGAGGGGAGCCCTGTGGCAGTCCAGGCCACCTGAGTTATCTCTAGCCCCAGTCGCCTGAAG
 GAGGGCTGGCCCCCAGCGGGCCCTTGCCAGCAGCCACGATGTCTGTGCCGCCAGGAAGCCCTACTGCA
 CCACGTAGCCACCATTGCCAATACCTTCCGACGCCACCGAGCTGCCAGCGCTGCCATGAGGACTGGAAG
 CGCCTGGCCGCTGTGATGGACCGCTTCTTCTGCGCATCTTCTTCCATGGCCCTGGTCTAGACCTCC
 TGGTGCTGGTGCAGGCCCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC222267 representing NM_020402
 Red=Cloning site Green=Tags(s)

MGLRSHHLSLGLLLLFLPAECLGAEGRALALKFRDLFANYTSALRPVADTDQTLNVTLEVTLSQIIDMD
 ERNQVL TLYLWIRQEWTDAYLRWDPNAYGGLDAIRIPSSLVWRPDI VL YNKADAQPPGSASTNVVLRHDG
 AVRWDAPAITRSSCRVDVAAPFDAQHCGLTFGSWTHGGHQLDVRPRGAAASLAD FVENVEWRV LGMPAR
 RRVL TYGCCSEPYPDVTFLLLLRRRAAYV CNLLLPCVLSLLAPLAFHLPADS GEKVS LGVTVLLAL TV
 FQLLLAESMPPAESVPLIGKYMATMTMVFSTAL TILIMNLHYCGPSVRPVP AWARALLLGH LARGLCV
 RERGEPCGQSRPPELSPSPQSPEGGAGPPAGPCHEPRCLCRQEALLHHVATIANTFRSHRAAQRCHEDWK
 RLARVMDRFFLAIFFSMALVMSLLVLVQAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

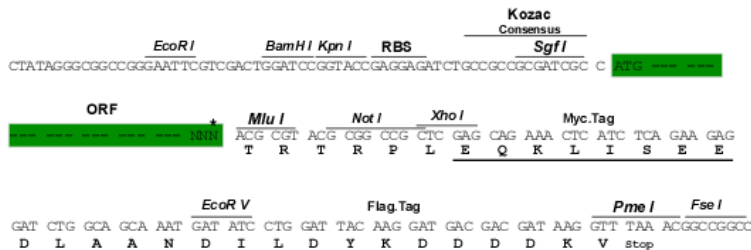
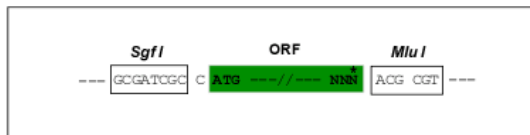
https://cdn.origene.com/chromatograms/mk6102_g03.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_020402

ORF Size: 1350 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_020402.4](#)
RefSeq Size: 1962 bp

RefSeq ORF: 1353 bp

Locus ID: 57053

UniProt ID: [Q9GZZ6](#)

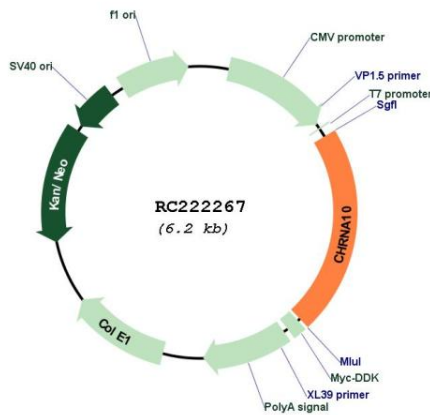
Cytogenetics: 11p15.4

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

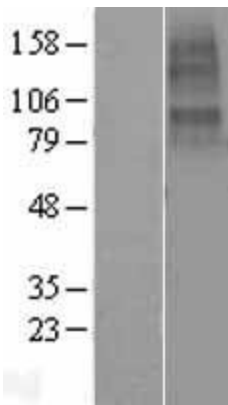
MW: 49.5 kDa

Gene Summary: Ionotropic receptor with a probable role in the modulation of auditory stimuli. Agonist binding may induce an extensive change in conformation that affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane. The channel is permeable to a range of divalent cations including calcium, the influx of which may activate a potassium current which hyperpolarizes the cell membrane. In the ear, this may lead to a reduction in basilar membrane motion, altering the activity of auditory nerve fibers and reducing the range of dynamic hearing. This may protect against acoustic trauma. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC222267



Western blot validation of overexpression lysate (Cat# [LY402789]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222267 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).