

Product datasheet for RC236886

CHRNA10 (NM_001303034) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CHRNA10 (NM_001303034) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CHRNA10
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236886 representing NM_001303034
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGCCGGCGGGCGCGCTGCTCACCTACGGCTGCTGCTCCGAGCCCTACCCGACGTCACCTTCAGC
TGCTGCTGCGCCGCGCCGCGCCGCTACGTGTGCAACCTGCTGCCCTGCGTGCTCATCTCGTGCT
TGCGCCGCTCGCCTTCCACCTGCTGCCGACTCAGGCGAGAAGGTGTCGCTGGCGTCACCGTGTGCTG
GCGCTCACCGTCTTCCAGTTGCTGCTGGCCGAGAGCATGCCACCGCCGAGAGCGTGCCGCTCATCGGA
AGTACTACATGGCCACTATGACCATGGTACATTCTCAACAGCACTCACCATCCTTATCATGAACCTGCA
TACTGTGGTCCCAGTGTCCGCCAGTGCCAGCCTGGGCTAGGGCCCTCCTGCTGGGACACCTGGCACGG
GGCCTGTGCGTGCAGAAAGAGGGGAGCCCTGTGGCAGTCCAGGCCACCTGAGTTATCTCTAGCCCC
AGTCGCTGAAGGAGGGCTGGCCCCAGCGGGCCCTTGCCACGAGCCACGATGTCTGTGCCAGGA
AGCCCTACTGCACCAGTAGCCACCATTGCAATACCTTCCGACGCCACCGAGCTGCCAGCGCTGCCAT
GAGGACTGGAAGCGCCTGGCCGTGTGATGGACCGCTTCTTCTGCCATCTTCTCCATGGCCCTGG
TCATGAGCCTCCTGGTGTGGTGCAGGCCCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA

Protein Sequence: >RC236886 representing NM_001303034
Red=Cloning site Green=Tags(s)

MPARRRVLTYGCCSEYPDVTFLLLRRAAAYVGNLLLPVLISSLLAPLAFHLPADSGEKVSLGVTVLL
ALTVFQLLLAESMPPELSPSPQSPGAGPPAGPCHEPRCLCRQEALLHHVATIANFRSHRAAQRCH
EDWKRLARVMDRFFLAIFFSMALVMSLLVLVQAL

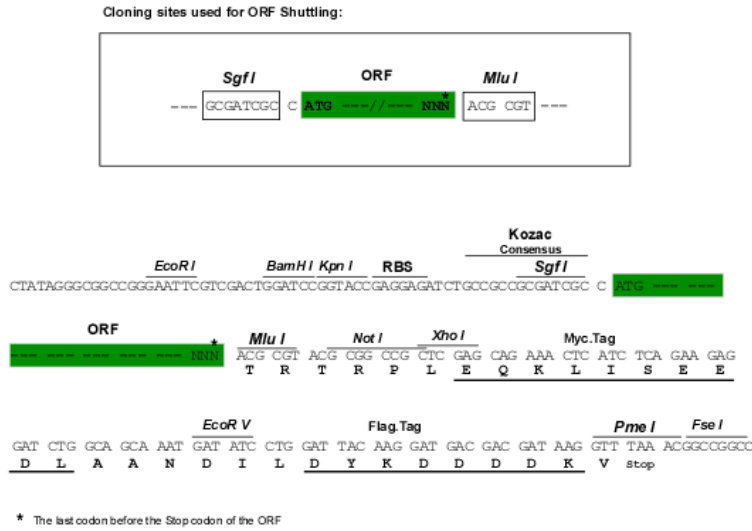
TRTRPLEQKLISEEDLAANDILDYKDDDDKV



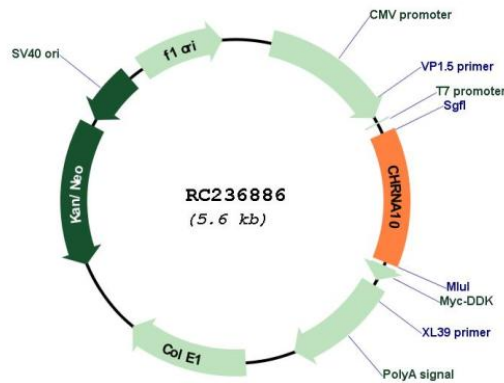
[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001303034

ORF Size: 732 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:	<ol style="list-style-type: none">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:	<u>NM_001303034.1</u> , <u>NP_001289963.1</u>
RefSeq Size:	2024 bp
RefSeq ORF:	735 bp
Locus ID:	57053
UniProt ID:	<u>Q9GZZ6</u>
Cytogenetics:	11p15.4
Protein Families:	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane
MW:	27.2 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]