

## Product datasheet for **RG236887**

### CHRNA10 (NM\_001303035) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CHRNA10 (NM\_001303035) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** CHRNA10  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG236887 representing NM\_001303035.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCGGCGCGCGCGCGTGTACCTACGGTGTCTCCGAGCCCTACCCGACGTACCTTCACG
CTGCTGTGCGCCGCCGCCGCCCTACGTGTGCAACCTGTCTGCCCTGCGTGTCTCATCTCGCTG
CTTGCGCCGCTCGCCTTCCACCTGCCTGCCGACTCAGGCGAGAAGGTGTCGCTGGGCGTACCCTGCTG
CTGGCGTACCCTTCCAGTTGCTGTGGCCGAGAGCATGCCACCGCCGAGAGCGTGGCCGCTCATC
GGGAAGTACTACATGGCCACTATGACCATGGTACATTCTCAACGACTCACCATCCTTATCATGAAC
CTGACTTGTGTCCAGTGTCCGCCAGTCCGCCAGCTGGGCTAGGGCCCTCCTGCTGGGACACCTG
GCACGGGCGCTGTGCGTGCAGGAAAGAGGGGAGCCCTGTGGCAGTCCAGGCCACCTGAGTTATCTCCT
AGCCCCAGTCGCCTGAAGGAGGGGCTGGCCCCCAGCGGCCCTTGCCACGAGCCACGATGTCTGTGC
CGCCAGGAAGCCCTACTGCACCAGTAGCCACCATGCAATACCTCCGAGCCACCGAGCTGCCAG
CGCTGCCATGAGGACTGGAAGCGCCTGGCCGTGTGATGGACCGTCTCTCTGGCCATCTCTCTCC
ATGGCCCTGGTGTGAGCCTCCTGGTGTGGTGCAGGCCCTG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG236887  
 Blue=ORF Red=Cloning site Green=Tag(s)

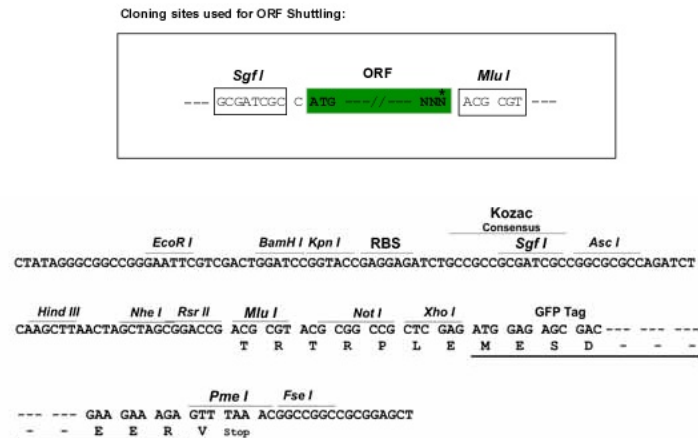
```
MPARRVLTYGCCSEYPDVFTLLRRRAAYVCNLLLPCVLI SLLAPLAFHLPADSGEKVSLGVTVL
LALTVFQLLLAESMPAESVPLIGKYMATMTMVFSTAL TILIMNLHYCGPSVRPVPAPARALLGHL
ARGLCVREGERPECGQSRPPELSPSPQSPGEGAGPPAGPCHEPRCLCRQEALLHHVATIANTFRSHRAAQ
RCHEDWKRLARVMDRFFLAIFFSMALVMSLLVLVQAL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGYTNRIEKYEDGGVLHVFSYRYEAGRVIGDFKVMGTGFPEL
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSTRTRFSLRDGGYSSVVD SHMHFKSAIHP SILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```



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**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001303035

**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).

**RefSeq:** [NM\\_001303035.1](#), [NP\\_001289964.1](#)

**RefSeq Size:** 1957 bp

**RefSeq ORF:** 735 bp

**Locus ID:** 57053

**UniProt ID:** [Q9GZZ6](#)

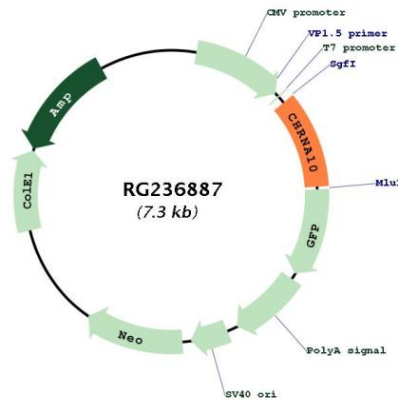
**Cytogenetics:** 11p15.4

**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]

**Product images:**

Circular map for RG236887