

## Product datasheet for **SC334780**

### CHRNA10 (NM\_001303034) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CHRNA10 (NM_001303034) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHRNA10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001303034, the custom clone sequence may differ by one or more nucleotides

```
ATGCCGGCGCGGGCGCGGTGCTCACCTACGGCTGCTGCTCCGAGCCCTACCCCGACGTCACCTTCACGC  
TGCTGCTGCGCCGCCGCGCCGCCGCTACGTGTGCAACCTGCTGCTGCCCTGCGTGCTCATCTCGTGCT  
TGCGCCGCTCGCCTTCCACCTGCCTGCCGACTCAGGCGAGAAGGTGTCGCTGGCGTCCACGTGCTGCTG  
GCGCTCACCGTCTTCCAGTTGCTGCTGGCCGAGAGCATGCCACCGGCCGAGAGCGTGCCGCTCATCGGGA  
AGTACTACATGGCCACTATGACCATGGTCACATTCTCAACAGCACTCACCATCCTATCATGAACCTGCA  
TTACTGTGGTCCCAGTGTCCGCCAGTGCCAGCCTGGGCTAGGGCCCTCCTGCTGGGACACCTGGCACGG  
GGCCTGTGCGTGGGAAAGAGGGGAGCCCTGTGGCAGTCCAGGCCACCTGAGTTATCTCTAGCCCC  
AGTCGCCCTGAAGGAGGGGCTGGCCCCCAGCGGGCCCTTGCCACGAGCCACGATGTCTGTGCCGCCAGGA  
AGCCCTACTGCACCACGTAGCCACCATTGCCAATACCTTCGCGAGCCACCGAGCTGCCGAGCGCTGCCAT  
GAGGACTGGAAGCGCCTGGCCCGTGTGATGGACCCTTCTTCTGCCATCTTCTTCCATGGCCCTGG  
TCATGAGCCTCCTGGTGTGGTGCAGGCCCTGTA
```

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001303034
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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).



<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001303034.1, NP_001289963.1</u>
<b>RefSeq Size:</b>	2024 bp
<b>RefSeq ORF:</b>	735 bp
<b>Locus ID:</b>	57053
<b>UniProt ID:</b>	<u>Q9GZZ6</u>
<b>Cytogenetics:</b>	11p15.4
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane
<b>Gene Summary:</b>	<p>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.</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses an alternate splice site at an internal exon compared to variant 1. This difference results in translation initiation at a downstream in-frame start site through ribosomal re-initiation or leaky scanning. The encoded isoform (b) is shorter at the N-terminus compared to isoform a. Variants 2 and 3 both encode the same isoform (b).</p>