

## Product datasheet for **SC313657**

### CHRNA9 (NM\_017581) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CHRNA9 (NM\_017581) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** CHRNA9  
**Synonyms:** HSA243342; NACHRA9  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_017581 edited  
AGATGAACTGGTCCCATTCTGCATCTCCTTTTGGCTGGATCTACTTTGCTGCTTCCAGAC  
TGAGAGCTGCAGAGACGGCAGATGGAAAATATGCTCAGAAGTTGTTTAATGACCTTTTTG  
AAGATTATTCTAATGCTCTTCGTCAGTGAAGATACAGATAAAGTCCTGAATGTGACCC  
TGAGATTACGCTCTCTCAGATTAAGGATATGGATGAAAGAAACCAAATTCTGACTGCTT  
ATTTGTGGATCCGCCAAATCTGGCACGATGCCTATCTCACGTGGGACCGAGATCAGTACG  
ATGGCCTAGACTCCATCAGGATCCCCAGTGACCTCGTGTGGAGGCCAGACATCGTCTTAT  
ATAACAAGGCTGATGATGAATCTTCAGAGCCTGTGAACACCAATGTGGTCTGCGGTATG  
ATGGGCTGATCACCTGGGATGCACCGGCCATCACAAAAGCTCCTGTGTGGTGGATGTCA  
CCTACTTCCCTTTTGACAACCAGCAGTGAACCTGACTTTTGGTTCCTGGACCTACAATG  
GCAATCAGGTGGACATATTCAACGCCTTGACAGCGGAGATCTCTGACTTCATTGAAG  
ATGTGGAATGGGAGTCCATGGCATGCCCGCTGTGAAGAATGTGATCTCCTATGGCTGCT  
GCTCTGAGCCTTACCCGGATGTCACATTCACCCCTCTTCTGAAGAGGAGGTCTCTGTTCT  
ATATCGTCAACCTCCTCATCCCATGCGTCTCATATCTTTTCTGGCTCCTCTGAGTTTTT  
ATCTCCAGCAGCCTCCGGAGAAAAGGTCTCCCTGGGAGTGACCATCCTGTTGGCCATGA  
CTGTATTTTCAGCTAATGGTGGCAGAAAATCATGCCGGCCTCAGAAAATGTGCCCTGATG  
GTAATACTACATAGCCACGATGGCCCTGATCACAGCCTCCACTGCGTTGACCATCATGG  
TGATGAATATCCACTTCTGTGGGGCCGAGGCCCGCCGGTGCCACACTGGGCCAGGGTGG  
TCATCCTGAAATACATGTCCAGGTCTTGTGTTGTCTATGATGTGGGTGAAAGCTGCCTCA  
GCCCGCACACAGTAGAGAGCGGGACCCCTCACGAAAGTTTATAGCAAACCTCCAGAGT  
CTAACCTGAAAGCAGCCAGGAACAAAGACCTTTCCAGAAAAGAGACATGAACAAACGCT  
TAAAGAACGACCTGGGCTGCCAGGGTAAGAACCCTCAGGAGGCCGAGAGTTACTGTGCAC  
AGTACAAAGTGTGACGAGGAATATTGAGTACATCGCCAAGTGCCTCAAAGACCACAAGG  
CCACCAGTTCCAAGGGGAGTGAATGGAAGAAGGTGGCGAAAGTCATAGACCGATTCTTCA  
TGTGGATTTTTTTCATTATGGTGTGTTGTGATGACTATTTTGATCATAGCAAGAGCGGATT  
AGTCACAGATATTGGCTTTGCTATCTGGGTAAA



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_017581 unedited</p> <pre> NGGGGTCCAGATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGCCCTTAGATG AACTGGTCCCATTCTGCATCTCCTTTTCTGGATCTACTTTGCTGCTCCAGACTGAGA GCTGCAGAGACGGCAGATGGAATAATGCTCAGAAGTTGTTAATGACCTTTTTGAAGAT TATTCTAATGCTCTTCGTCAGTGAAGATACAGATAAAGTCCTGAATGTGACCCGTCAG ATTACGCTCTCAGATTAAGGATATGGATGAAAGAAACCAAATCTGACTGCTTATTTG TGGATCCGCCAAATCTGGCACGATGCCTATCTCACGTGGGACCGAGATCAGTACGATGGC CTAGACTCCATCAGGATCCCCAGTGACCTCGTGTGGAGGCCAGACATCGTCTTATAAAC AAGGCTGATGATGAATCTTCAGAGCCTGTGAACACCAATGTGGTCTGCGGTATGATGGG CTGATCACCTGGGATGCACCGGCCATCACAAAAGCTCCTGTGTGGTGGATGTCACCTAC TTCCCTTTTGACAACCAGCAGTGAACCTGACTTTTGGTCTCGGACCTACAATGGCAAT CAGGTGGACATATTCAACGCCTTGGACAGCGGAGATCTCTGACTTCATTGAAGATGTG GAATGGGAGGTCCATGGCATGCCCGCTGTGAAGAATGTGATCTCCTATGGCTGCTGCTCT GAGCCTTACCCGGATGTCACATTCACCCTCCTTCTGAAGAGGANGTCTCGTTCTATATC GTCAACCTCCTCATCCCATGCGTCTCATATCTTTTCTGGCCTCTGAGTTTNTTATCT CCAGCAGCTCCCGGAGAAAGGGTCTCCTGGGAGTGACCATCCTGTTGGCCATGACTGTA TTTCAGC </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_017581 unedited</p> <pre> CTGGGATGGCACTTCCAGGGCCAGNANAGCACTGGGNGAGGGTCCACAGGNATGCCACCCG GGATCTGTTCCAGAAACAGCTATGACCGCGGCCGAATCTAGAGTCGACAAGCTTGATAT CGGTACCAGATCTGAATTCGCCCTTACCAGATAGCAAAGCCAATATCTGTGACTAATC CGCTCTTGCTATGATCAAAATAGTCATCACAACACCATAATGAAAAAATCCACATGAA GAATCGGTCTATGACTTTCGCCACCTTCTCCATTCACCTCCCCTTGAAGTGGTGGCCTT GTGGTCTTTGAGGCACTTGGCGATGTACTCAATATTCCTCGTCAGCACTTTGACTGTGC ACAGTAACTCTCGGCCTCCTGAGGGTCTTACCCTGGCAGCCCAGGTCTGTTTAAAGCG TTTGTTTATGCTCTTCTTCTGGAAAGGTCTTTGTTCTCGGCTGCTTTCAGGTTAGACTC TGGGAGTTTGCTATAAATTTCTGTGAGGTGGTCCCCTCTCTACTGTGGTGGCGGCTGAG GCAGCTTTCACCCACATCATAGACAAACAAGACCCTGGACATGTATTTCCAGGATGACCAC CCTGGCCCACTGTGGCACCGGCCGGCCCTCGGCCACAGAAAGTGGATATTCATACCCAT GATGGTCAACGCAGTGGAGGCTGTGATCAGGGCCATCGTGGCTATGTAGTATTTACCTAT CAGGGGCACATTTTCTGAGCCGGCATGATTTCTGCCACCATAGCTGAAATACAGTCAT GGCCAACAGGATGGTCACTCCCAGGGAGACCNTTTTCTCCGAGGCTGCTGGNNAGATAAA ACTCANAGGAGCCANANAGATATGAGAACCCTGGGATGAAGGAGGTGACAATATAAACG AGGACTCCCTCTCAGAAGGAGGG </pre>
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_017581
<b>Insert Size:</b>	1500 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	There is 1 nucleotide difference between the OriGene clone and the NCBI reference ORF. These result in the substitution of 1 aa and insertion of 1 aa.
<b>Components:</b>	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\\_017581.2](#), [NP\\_060051.2](#)

**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

**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]