

## Product datasheet for **SC310321**

### **CHRN4 (NM\_000750) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CHRN4 (NM_000750) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHRN4
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

```
>OriGene ORF sequence for NM_000750 edited
CGGCGGCTGCCACCCGGCCCCGCGGCCATGAGGCGCGCGCTTCCCTGGTCCTTTTCTT
CCTGGTCGCCCTTTGCGGGCGCGGGAAGTCCCGCGTGGCCAATGCGGAGGAAAAGCTGAT
GGACGACCTTCTGAACAAAACCCGTTACAATAACCTGATCCGCCAGCCACCAGCTCCTC
ACAGCTCATCTCCATCAAGCTGCAGCTCTCCCTGGCCAGCTTATCAGCGTGAATGAGCG
AGAGCAGATCATGACCACCAATGTCTGGCTGAAACAGGAATGGACTGATTACCGCCTGAC
CTGGAACAGCTCCCGCTACGAGGGTGTGAACATCCTGAGGATCCCTGCAAAGCGCATCTG
GTTGCCTGACATCGTGCTTTACAACAACGCCGACGGGACCTATGAGGTGTCTGTCTACAC
CAACTTGATAGTCCGGTCCAACGGCAGCGTCTGTGGCTGCCCCCTGCCATCTACAAGAG
TGCTGCAAGATTGAGGTGAAGTACTTTCCCTTCGACCAGCAGAAGTGCACCCTCAAGTT
CCGCTCCTGGACCTATGACCACACGGAGATAGACATGGTCCTCATGACGCCACAGCCAG
CATGGATGACTTTACTCCAGTGGTGAGTGGGACATAGTGGCCCTCCAGGGAGAAGGAC
AGTGAACCCACAAGACCCAGCTACGTGGACGTGACTTACGACTTCATCATCAAGCGCAA
GCCTCTGTCTACACCATCAACCTCATCATCCCCTGCGTGCTCACCACCTTGCTGGCCAT
CCTCGTCTTACCTGCCATCCGACTGCGGCGAGAAGATGACACTGTGCATCTCAGTGCT
GCTGGCACTGACATTCTTCTGTGCTCATCTCCAAGATCGTGCCACCCACCTCCCTCGA
TGTGCCTCTCATCGCAAGTACCTCATGTTACCATGGTGTGGTGCACCTTCTCCATCGT
CACCAGCGTCTGTGTGCTCAATGTGACCACCGCTCGCCAGCACCCACACCATGGCACC
CTGGGTCAAGCGCTGCTTCTGCACAAGTGCCTACCTTCTTCTCATGAAGCGCCCTGG
CCCCGACAGCAGCCCGGCCAGAGCCTTCCCGCCAGCAAGTCATGCGTGACCAAGCCCGA
GGCCACCGCCACCTCCACCAGCCCTCCAATTCTATGGGAATCCATGTACTTTGTGAA
CCCCGCTCTGCAGCTTCCAAGTCTCCAGCCGGCTTACCCCGGTGGCTATCCCCAGGGA
TTTCTGGCTGCGGTCTCTGGGAGGTTCCGACAGGATGTGCAGGAGGCATTAGAAGGTG
CAGCTTATCGCCAGCACATGAAGAATGACGATGAAGACCAGAGTGTCTGTTGAGGACTG
GAAGTACGTGGCTATGGTGGTGGACCGGCTGTTCTGTGGGTGTTTGTGTTGTGCGT
CCTGGGCACTGTGGGGCTCTTCTACCAGCCCTTCCAGACCCATGCAGCTTCTGAGGG
GCCCTACGCTGCCAGCGTGACTGAGGGCCCCCTGGGTTGTGGGTGAGAGGATGTGAGT
GGCCGGGTGGGCACTTTGCTGCTTCTTCTGGGTTGTGGCAAGGGCGAATTCAGATCTG
GTACCGATATCAAGCTTGT
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**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_000750 unedited
GTGACGTCAAATTTTGTATACGACTCACTATAGGGCGGCCGCGATTGCGCCCTTCTGTGAC
CCCACAGCGGAGCTCGCGGCGGCTGCCACCCGGCCCCGCGGCCATGAGGCGCGCGCCTT
CCCTGGTCTTTTCTTCTGGTCCGCTTTGCGGGCGCGGGAAGTCCCGCGTGGCCAATG
CGGAGGAAAAGCTGATGGACGACCTTCTGAACAAAACCCGTTACAATAACCTGATCCGCC
CAGCCACCAGCTCCTCACAGCTCATCTCCATCAAGCTGCAGCTCTCCCTGGCCAGCTTA
TCAGCGTGAATGAGCGAGAGCAGATCATGACCACCAATGTCTGGCTGAAACAGGAATGGA
CTGATTACCGCTGACCTGGAACAGCTCCCGCTACGAGGGTGTGAACATCCTGAGGATCC
CTGCAAAGCGCATCTGGTTGCCTGACATCGTGCTTTACAACAACGCCGACGGGACCTATG
AGGTGTCTGTCTACACCAACTTGATAGTCCGGTCCAACGGCAGCGTCTGTGGCTGCCCC
CTGCCATCTACAAGAGTGCCTGCAAGATTGAGGTGAAGTACTTTCCCTTCGACCAGCAGA
ACTGCACCCTCAAGTTCCGCTCCTGGACCTATGACCACACGGAGATAGACATGGTCCTCA
TGACGCCACAGCCAGCATGGATGACTTTACTCCAGTGGTGAGTGGGACATAGTGGCC
TCCCAGGGAGAAGGACAGTGAACCCACAAGACCCAGCTACGTGGACGTGACTTACGACT
TCATCATCAAGCGCAAGCCTCTGTTCTACACCATCAACCTATAATCCCCTGCGTGCTCC
CCAACTGTGTCGCCATCCTTGTCTTCTACCTTGATCCCAATGGCGGGGGAA
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_000750 unedited GGGGACATTGGNNGATGGCACTTCCAGGNCCAGNANGAGCACTGGGGNAGGGTCACAGG GATGCCACCCGGGATCTGTTTCAGGAAACAGCTATGACCGCGGCCCAATCTAGAGTCGAC AAGCTTGATATCGGTACCAGATCTGAATTCGCCCTTGGCCACAACCCAGAAAGAAGCAGC AAAGTGCCACCCGGCCACTCACATCCTCTACCCACAACCCAGGGGGCCCTCAGTCAC GCTGGGCAGCGTAGGGCCCTCAGAAGCTGCATGGGTCTGGAAGAGGGGGGTAGGAAGA GCCCCACAGTGCCAGGACGCACACAAACATGAACCCACAGGAACAGCCGGTCCACCA CCATAGCCACGTACTTCCAGTCTCAACGACACTCTGGTCTTCATCGTCATTCTTCATGT GCTGGGCGATGAAGCTGACACCTTCTAATGCCTCTGCACATCCTGTGCGAACCTCCAG AGGACCGCAGCCAGAAATCCCTGGGGATAGCCACCGGGGTAGAGCCGGCTGGAGACTTGG AAGCTGCAGAGCGGGGTTACAAAGTACATGGAGTTCCCATAGAAGTTGGAGGGCTGG TGGAGGTGGCGGTGGCTCGGGCTTGGTCACGCATGACTTGTGGGCGGGAAGGCTCTGG CCGGGCTGCTGCGGGCCAGGGCGCTTCATGAAGAGGAAGGTAGGCAGCTTGTGCAGGA AGCAGCGCTTGACCCAGGGTCCATGGTGTGGGTGCTGGGCGAGCGGTGGTGCACATTGA GCACACAGACGCTGGTGACGATGGAGAAAGTGACCAGCACCATGGTGAACATGAGGTACT TGCCGATGAGAGGCACATCGAGGGAGGTGGGGTGGCACGATCTTGAGATGAGG
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_000750
<b>Insert Size:</b>	1497 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>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<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).
<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>	<a href="#">NM_000750.2</a> , <a href="#">NP_000741.1</a>
<b>RefSeq Size:</b>	2447 bp
<b>RefSeq ORF:</b>	1497 bp
<b>Locus ID:</b>	1143
<b>UniProt ID:</b>	<a href="#">P30926</a>
<b>Cytogenetics:</b>	15q25.1
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane

**Gene Summary:**

This gene is found within a conserved gene cluster and encodes one of the beta subunits of the nicotinic acetylcholine receptor (nAChRs) superfamily which form ligand-gated ion channels with a central pore that forms a cation channel. Neuronal nAChRs are pentameric structures that can be either homomeric or heteromeric, with heteromeric structures containing both alpha and beta subunits. Each subunit contains an extracellular amino terminus and four transmembrane domains. Nicotine is one of the agonists that binds to the receptor. Variants in this gene have been associated with nicotine dependence and lung cancer. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2017]

Transcript Variant: This variant (1) encodes the longer isoform (1).