

Product datasheet for **SC300130**

CHRN3 (NM_000749) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHRN3 (NM_000749) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHRN3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_000749 edited

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TGTGCTGTCCTCTGGGTTCCACTTCGGATTTTGAACCCCTGTATTTCTTTTCAAAC
CCCCTTTTCCAGTGAAATGCTCTGTTGTTAAAAAGGAAGAACTGTCTTTCTGAAACTG
ACATCACGATGCTCCAGATTTTATGCTGGTCTCATCGTCTTGGCATCCCTTCCCTCAG
CCACCACAGGTTTCAACTCAATCGCCGAAAATGAAGATGCCCTCCTCAGACATTTGTTCC
AAGTTATCAGAAATGGGTCCGCCCTGTATTACATTCTAATGACACCATAAAAAGTATATT
TTGGATTGAAAATATCCCAGCTTGTAGATGTGGATGAAAAGAATCAGCTGATGACAACCA
ATGTGTGGCTCAAACAGGAATGGACAGACCACAAGTTACGCTGGAATCCTGATGATTATG
GTGGGATCCATTCCATTAAGTTCCATCAGAATCTCTGTGGCTTCTGACATAGTTCTCT
TTGAAAATGCTGACGGCCGCTTCGAAGGCTCCCTGATGACCAAGGTCATCGTGAATCAA
ACGGAACCTGTTGTGGACCCCTCCCGCCAGCTACAAAAGCTCCTGCACCATGGACGTCA
CGTTTTTCCCGTTCGACCGACAGAACTGCTCCATGAAAGTTTGGATCCTGGACTTATGATG
GCACCATGGTTGACCTCATTTTGTCAATGAAAATGTCGACAGAAAAGACTTCTTCGATA
ACGGAGAATGGGAAATACTGAATGCAAAGGGGATGAAGGGGAACAGAAGGGACGGCGTGT
ACTCCTATCCCTTTATCACGATTCCCTTCGTCCTGAGACGCCTGCCTTTATTCTATACCC
TCTTTCTCATCATCCCCTGCCTGGGGCTGTCTTTCCTAACAGTCTTGTGTTCTATTTAC
CTTCGGATGAAGGAGAAAACTTTCATTATCCACATCGGTCTTGGTTTCTCTGACAGTTT
TCCTTTTAGTGATTGAAGAAATCATCCCATCGTCTTCAAAGTCATTCTCTCATTGGAG
AGTACCTGCTGTTTCATCATGATTTTGTGACCCTGTCCATCATTGTTACCGTGTTTGTCA
TTAACGTTCAACCACAGATCTTCTCCACGTACCACCCCATGGCCCTGGGTTAAGAGGC
TCTTTCTGCAGAACTTCCAAAATTACTTTGCATGAAAGATCATGTGGATCGCTACTCAT
CCCCAGAGAAAGAGGAGAGTCAACCAGTAGTGAAGGCAAAGTCTCGAAAAAAGAAAC
AGAAACAGCTTAGTGATGGAGAAAAAGTTCTAGTTGCTTTTTTGGAAAAAGCTGTGATT
CCATTAGATACATTTCCAGACATGTGAAGAAAGAACATTTTATCAGCCAGGTAGTACAAG
ACTGGAATTTGTAGCTCAAGTCTTGACCGAATCTTCTGTGGCTCTTTCTGATAGTGT
CAGTAACAGGCTCGTCTGATTTTTACCCCTGCTTTGAAGATGTGGCTACATAGTTACC
ATTAGGAATTTAAAAGACATAAGACTAAATTACACCTTAGACCTGACATCTGGCTATCAC
ACAGACAGAATCCAAATGC

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Restriction Sites:	Please inquire
ACCN:	NM_000749
Insert Size:	1600 bp
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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_000749.2</u> , <u>NP_000740.1</u>
RefSeq Size:	1956 bp
RefSeq ORF:	1377 bp
Locus ID:	1142
UniProt ID:	<u>Q05901</u>
Cytogenetics:	8p11.21
Protein Families:	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane

Gene Summary:

The nicotinic acetylcholine receptors (nAChRs) are members of a superfamily of ligand-gated ion channels that mediate fast signal transmission at synapses. The nAChRs are (hetero)pentamers composed of homologous subunits. The subunits that make up the muscle and neuronal forms of nAChRs are encoded by separate genes and have different primary structure. There are several subtypes of neuronal nAChRs that vary based on which homologous subunits are arranged around the central channel. They are classified as alpha-subunits if, like muscle alpha-1 (MIM 100690), they have a pair of adjacent cysteines as part of the presumed acetylcholine binding site. Subunits lacking these cysteine residues are classified as beta-subunits (Groot Kormelink and Luyten, 1997 [PubMed 9009220]). Elliott et al. (1996) [PubMed 8906617] stated that the proposed structure for each subunit is a conserved N-terminal extracellular domain followed by 3 conserved transmembrane domains, a variable cytoplasmic loop, a fourth conserved transmembrane domain, and a short C-terminal extracellular region.[supplied by OMIM, Apr 2010]

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