

## Product datasheet for **SC124153**

### CHRNA6 (NM\_004198) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CHRNA6 (NM_004198) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHRNA6
Synonyms:	CHNRA6
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC124153 sequence for NM\_004198 edited (data generated by NextGen Sequencing)

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ATGCTGACCAGCAAGGGGCAGGGATTCTTCATGGGGCTTGTGTCTCTGGCTGTGTGTG
TTCACACCTTTCTTTAAAGGCTGTGTGGCTGTGCAACTGAGGAGAGGCTCTCCACAAA
CTGTTTTCTCATTACAACCAGTTCATCAGGCTGTGAAAACGTTTCCGACCCTGTCAGC
GTACACTTTGAAGTGCCATCACCCAGCTGGCCAACTGGATGAAGTAAACCAGATCATG
GAAACCAATTTGTGGCTGCCTCACATCTGGAATGATTATAAATTGCGCTGGGATCCAAT
GAATATGATGGCATTGAGACTCTTCGCGTTCTGCAGATAAGATTTGGAAGCCCGACATT
GTTCTCTATAACAATGCTGTTGGTGACTTCCAAGTAGAAGGCAAAAACAAAAGCTCTTCT
AAATACAATGGCATGATAACCTGGACTCCACCAGCTATTTTTAAGAGTTCCTGCCCTATG
GATATCACCTTTTCCCTTTTGATCATAAAAGTTCCTAAAATTTGGTTCTGGACG
TATGACAAAGCTGAAATGATCTTCTAATCATTGGATCAAAAAGTGGATATGAATGATTTT
TGGGAAAACAGTGAATGGGAAATCATTGATGCCTCTGGCTACAAACATGACATCAATAC
AACTGTTGTGAAGAGATATACACAGATAAACCTATTCTTTCTACATTAGAAGATTGCCG
ATGTTTTACACGATTAATCTGATCATCCCTTGTCTCTTTATTTCAATTTCTAACCGTGTG
GTCTTTTACCTTCTTCGACTGTGGTGAAGGAGTACGCTTTGTATTTCAAGTCCGCTT
TCTCTGACTGTGTTTTGCTGGTCATCACAGAAACCATCCCATCCACATCTCTGGTGGTC
CCACTGGTGGGTGAGTACCTGCTGTTCCACATGATCTTTGTCACACTGTCCATCGTGGTG
ACTGTGTTTGTGTTGAACATACACTACCGCACCCCAACCACGCACACAATGCCAGGTGG
GTGAAGACAGTTTTCTGAAGCTGCTGCCCCAGGCTCTGCTGATGAGGTGGCCTCTGGAC
AAGACAAGGGGCACAGGCTCTGATGCAGTGCCAGAGGCTTCCAGGAGGCCTGCCAAA
GGCAAGCTTGAAGCCATGGGGAACCCAGACATCTTAAAGAATGCTTCCATTGTCACAAA
TCAAATGAGCTTGCCACAAGCAAGAGAAGATTAAGTCAACAGCCATTACAGTGGTGGTG
GAAAATTCGGAGCACTCGCTGAAGTTGAAGATGTGATTAACAGTGTTCAGTTTCATAGCA
GAAAACATGAAGGCCACAATGAAACCAAGGAGGTAGAAGATGACTGGAATACGTGGCC
ATGGTGGTGGACAGATATTTCTTTGGGTATTTATAATTGTCTGTGATTTGGAAGTCA
GGGCTATTTCTACAGCCACTACTGGGAACACAGGAAAATCTTAA

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Clone variation with respect to NM\_004198.3

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_004198 unedited

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AAAGTTCGAATTTTGTAAACGACTCACTATAGNNGCGCGCGNAATTNCGGCACGA
GGCCACAATCCTNNTTGCCTAGGAAAAAGGAATCCAAGTGTGTTTTAACCATGCTGACC
AGCAAGGGGCAGGGATTCTTTCATGGGGCTTGTGTCTCTGGCTGTGTGTGTTACACCT
TTCTTTAAAGGCTGTGTGGGCTGTGCAACTGAGGAGAGGCTCTCCACAACTGTTTTCT
CATTACAACCAGTTCATCAGGCTGTGAAAACGTTTCCGACCCTGTCACGGTACACTTT
GAAGTGGCCATCACCCAGCTGGCCAACTGGATGAAGTAAACCAGATCATGGAACCAAT
TTGTGGCTGCGTCACATCTGGAATGATTATAAATTGCGCTGGGATCCAATGGAATATGAT
GGCATTGAGACTCTTCGCGTTCTGCAGATAAGATTTGGAAGCCCGACATTGTTCTCTAT
AACAATGCTGTTGGTGACTTCCAAGTAGAAAGCAAAAACAAAAGCTCTTCTTAAATACAAT
GGCATGATAACCTGGACTCCACCAGCTATTTTTAAGAGTTCCTGCCCTATGGATACACC
TTTTTCCCTTTTGATCATAAAAGTGGTCCCTAAAATTTGGTTCTGGACGTATGACAAA
GCTGAAATGAATCTCTAATCATTGGATCAAAAAGTGGATATGAATGATTTTTGGGAAAAC
AGTGAATGGGAAATCATTGATGCCTCTGGCTACAAAATGACATCAATACAAGTGGTGT
GAAGAGATATCCAGATTTACCCTATTCTTTCTACATATAAAGATTGGCAATGTTTTAC
ACGATTAACCTGAATCAACCCTTGGCCCTTATTTTATTTTCAACCGGGTGGNGCTTTT
ACCTCCCTCCGACCGTGGTGAAGG

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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_004198 unedited AGGGGNNGTGGTTNNNTTTCATGCAGTGCACCTCCAGGCCAGGAGAGGCACTGGGGAG GGGTACACAGGGATGCCACCCGGGATCTGTTTCAGGAAACAGCTATGACCGCGCCGCAATC TAGAGTCGAGTTTTTTTTTTTTTTTTTTTAAAATAACAATCAGTGTATCAAATAATGCT GAGGAGGGTGAGTTACATTACAGAGACCTGCCAAGAAATCAAGGATGCCATAGTTTACACA AAGTGTGCAACAGTTCACAAATGTTGCATGGTCCAATCCCAGAGTTCACCTGTACACA TGCATAATACTGAGAAACAGCATCCACTGGAGGTACAGCAGAAGTCTTTAGTGTGGCTT GATGTTAATTACATAATTAGGCTGTATTGTAAGTCATTCTTGTCTTTAGAGCCAAACAC ACAGACACGAGAAACCTGACCTGATACTGTAGCCGTGGGTGCTGCCAATCAGGGCACTA ATGTCATAACACTTCTCACTTCTCCCCCTGTGCTACACTGGAGGATATTCTGCTTCTCTAA TGTGCAAGAAAGTCTCTTTTCCATGTAGCCATCAGTTTTAACAAATGGGGGACTTGGG TGGGAAGCCTTTGCTTTCCTTTCCTTGGGGCCAGGAATGCAAAACAAATATGGGGCTGG AAATTTCTGAACATNAAAGAAAATACATTTTAAAAATTTCTGTGTTCCCAATTATGGGC TGTGAATAGCCCTGCATTTCCAATCCCGACCATTATAATCCCCAAGAAATACTCTGTC ACCCC
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_004198
<b>Insert Size:</b>	2000 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>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_004198.2</a> , <a href="#">NP_004189.1</a>
<b>RefSeq Size:</b>	2090 bp
<b>RefSeq ORF:</b>	1485 bp
<b>Locus ID:</b>	8973
<b>UniProt ID:</b>	<a href="#">Q15825</a>
<b>Cytogenetics:</b>	8p11.21
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane

**Gene Summary:**

This gene encodes an alpha subunit of neuronal nicotinic acetylcholine receptors. These receptors consist of five subunits and function as ion channels involved in neurotransmission. The encoded protein is a subunit of neuronal nicotinic acetylcholine receptors that mediate dopaminergic neurotransmission and are activated by acetylcholine and exogenous nicotine. Alternatively spliced transcript variants have been observed for this gene. Single nucleotide polymorphisms in this gene have been associated with both nicotine and alcohol dependence. [provided by RefSeq, Dec 2010]

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