

Product datasheet for **SC123631**

CHRNA6 (BC014456) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHRNA6 (BC014456) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHRNA6
Synonyms:	acetylcholine receptor alpha 6 neural; Acra6; alpha6 nAChR; CHNRA6; cholinergic receptor, nicotinic, alpha polypeptide 6; Nica6; nicotinic acetylcholine receptor subunit alpha 6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for BC014456 edited
CCACAATCCTTTGCCTAGGAAAAAGGAATCCAAGTGTGTTTTAACCATGCTGACCAGCAA
GGGGCAGGGATTCTTCATGGGGGCTTGTGTCTCTGGCTGTGTGTTCACACCTTTCTT
TAAAGGCTGTGTGGGCTGTGCAACTGAGGAGAGGCTCTCCACAAACTGTTTTCTCATT
CAACCAGTTCATCAGGCCTGTGAAAACGTTTCCGACCCTGTACGGTACACTTTGAAGT
GGCCATCACCCAGCTGGCCAACGTGGATGAAGTAAACCAGATCATGAAAACCAATTTGTG
GCTGCGTCACATCTGGAATGATTATAAATTGCGCTGGGATCCAATGGAATATGATGGCAT
TGAGACTCTTCGCTTCCTGCAGATAAGATTTGGAAGCCCGACATTGTTCTCTATAACAA
TGCTGTTGGTGACTTCCAAGTAGAAGGCAAAACAAAAGCTCTTCTAAATACAATGGCAT
GATAACCTGGACTCCACCAGCTATTTTTAAGAGTTCCTGCCCTATGGATATCACCTTTTT
CCCTTTTGATCATCAAACTGTTCCCTAAAATTTGGTTCCTGGACGTATGACAAAAGCTGA
AATTGATCTTCTAATCATTGGATCAAAAGTGGATATGAATGATTTTTGGGAAAACAGTGA
ATGGGAAATCATTGATGCCTCTGGCTACAAACATGACATCAAATACAACCTGTTGTGAAGA
GATATACACAGATATAACCTATTCTTTCTACATTAGAAGATTGCCGATGTTTTACACGAT
TAATCTGATCATCCCTTGTCTTTATTTCAATTTCTAACCGTGTGGTCTTTACCTTCC
TTCGGACTGTGGTGAAAAGTGACGCTTTGTATTTCAAGTCTGCTTTCTCTGACTGTGTT
TTTGCTGGTCATCACAGAAACCATCCCATCCACATCTCTGGTGGTCCCCTGGTGGGTGA
GTACCTGCTGTTACCATGATCTTTGTCACACTGTCCATCGTGGTGACTGTGTTGTGTT
GAACATACACTACCGCACCCCAACCACGCACACAATGCCCAGGTGGGTGAAGACAGTTTT
CCTGAAGCTGCTGCCCCAGGCTCTGCTGATGAGGTGGCCTCTGGACAAGACAAGGGGCAC
AGGCTCTGATGCAGTGCCAGAGGCCTTGCCAGGAGGCCTGCCAAAGGCAAGCTTGCAAG
CCATGGGAACCCAGACATCTTAAAGAATGCTTCCATTGTCACAAATCAAATGAGCTTGC
CACAGCAAGAGAAGATTAAGTCATCAGCCATTACAGTGGTGGTGGAAAATTCGGAGCA
CTCGCCTGAAGTTGAAGATGTGATTAACAGTGTTCAAGTTCATAGCAGAAAACATGAAGAG
CCACAATGAAACCAAGGAGGTAGAAGATGACTGGAATACGTGGCCATGGTGGTGACAG
AGTATTTCTTTGGGTATTTATAATTGTCTGTGATTTGGAAGTGCAGGGCTATTTCTACA
GCCACTACTTGGGAACACAGGAAAATCTTAAAATGTATTTCTTTTATGTTTCAGAAATTT
ACAGACACCATATTTGTTCTGCATTCCTGCCACAAGGAAAGGAAAGCAAAGGCTTCCCA
CCCAAGTCCCCATCTGCTAAAACCTGATGGCTACATGGAAAAGAGGACTTTCTTGACA
TTAGGAAGCAGAAATATCCTCCAGTGTAGCACAGGGGGAGAAGTGAGAAGTGTATGACAT
TAGTGCCCTGATTGGGCAGCACCCACGGCTACAGTATCAGGTGAGTTTCTCGTGTCTGT
GTGTTTGGCTTCTAAAGCAAGAATGACTTACAATACAGCCTAATTATGTAATTAACATC
AAGCCACACTAAAAGTTCTGCTGTACCTCCAGTGGATGCTGTTTCTCAGTATTATGACA
TGTGACAGGTGAACTCTGGGAATTGGACCATGCAACATTTGTGAACTGTTTGCAACACTT
TGTGAACTATTGCATCCTTGATTTCTTGTGCATGTCTGTAAATGTAACCTCACCTCCTC
AGCATTATTTGATACACTGATTGTTAGTTTTAAAAAAAAAAAAAAAAAAAAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC014456 unedited NNCCACTTCAACATTTGTNATACGACTTCACTATNAGGGACGGCCGCGNNAATTTTCGGCA CGNAGGCCACNNAATCCTTTGCCTAGGNAAAAAGGAATCCAAGTGTGTTTAACCATGCT GACCAGCAAGGGGCAGGGATTCTTCATGGGGGCTTGTGTCTCTGGCTGTGTGTGTTTAC ACCTTTCTTTAAAGGCTGTGTGGCTGTGCAACTGAGGAGAGGCTCTCCACAACTGTT TTCTCATTACAACCAGTTCATCAGGCCTGTGAAAACGTTCCGACCCTGTCACGGTACA CTTTGAAGTGGCCATCACCCAGCTGGCCAACGTGGATGAAGTAAACCAGATCATGGAAAC CAATTTGTGGCTGCGTCACATCTGGAATGATTATAAATTGCGCTGGGATCCAATGGAATA TGATGGCATTGAGACTCTTCGCGTTCCTGCAGATAAGATTTGGAAGCCCGACATTGTTCT CTATAACAATGCTGTTGGTGACTTCCAAGTAGAAGGCAAAAACAAAAGCTTCTTAAATA CAATGGCATGATAACCTGGACTCCACCAGCTATTTTTAAGAGTTCCTGCCCTATGGATAT CACCTTTTCCCTTTTGATCATCAAACTGTTCCCTAAAATTTGGTTCCTGGACGTATGA CAAAGCTGAAATTGATCTTCTAATCATTGGATCAAAAGTGGATATGAATGATTTTTGGGA AAACAGTGAATGGAAATCATTGATGCCTCTGGCTACAAACATGACATCAAATACAACCTG TTGTGAAGAGATATACACAGATATAACCTATTCTTCTACATTAGAAGATTGCCGATGTT TTACACGATTAATCTGATCATCCCTGTCTCTTGTATNTCATTCTAAACCGTGTGGTCTT TTACCTTCC
Restriction Sites:	Please inquire
ACCN:	BC014456
Insert Size:	2090 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).
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:	BC014456.1 , AAH14456.1
RefSeq Size:	2090 bp
RefSeq ORF:	1482 bp
Locus ID:	8973
Cytogenetics:	8p11.21
Protein Families:	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]