

Product datasheet for **SC122164**

CHRNA5 (NM_000745) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHRNA5 (NM_000745) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHRNA5
Synonyms:	LNCR2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC122164 sequence for NM_000745 edited (data generated by NextGen Sequencing)

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ATGGCGGCGCGGGGGTCAGGGCCCCGCGCTCCGCCTGCTGCTCTTGGTCCAGCTGGTC
GCGGGGCGCTGCGGTCTAGCGGGCGCGGGCGGCGCGCAGAGAGGATTATCTGAACCT
TCTTCTATTGCAAAACATGAAGATAGTTTGCTTAAGGATTTATTTCAAGACTACGAAAGA
TGGGTTTCGTCTGTGGAACACCTGAATGACAAAATAAAAAATAAAATTTGGACTTGCAATA
TCTCAATTGGTGGATGTGGATGAGAAAAATCAGTTAATGACAACAAACGCTGGTTGAAA
CAGGAATGGATAGATGTAATAAATTAAGATGGAACCCTGATGACTATGGTGAATAAAAAGTT
ATACGTGTTCTTCAGACTCTGTCTGGACACCAGACATCGTTTTGTTTGATAATGCAGAT
GGACGTTTTGAAGGGACCAGTACGAAAACAGTCATCAGGTACAATGGCACTGTCACCTGG
ACTCCACCGGCAAACTACAAAAGTTCCTGTACCATAGATGTCACGTTTTTCCATTTGAC
CTTCAGAACTGTTCCATGAAATTTGGTTCTTGGACTTATGATGGATCACAGGTTGATATA
ATTCTAGAGGACCAAGATGTAGACAAGAGAGATTTTTTGATAATGGAGAATGGGAGATT
GTGAGTGAACAGGGAGCAAAGGAAACAGAACCAGACAGCTGTTGCTGGTATCCGTATGTC
ACTTACTCATTTGTAATCAAGCGCTGCCTCTCTTTTATACCTTGTTCCTTATAATACCC
TGATTGGGCTCTCATTTTTAACTGTACTTGTCTTCTATCTTCTTCAAATGAAGGTGAA
AAGATTTGTCTCTGCACTTCAGTACTTGTGTCTTTGACTGTCTTCTTCTGGTTATTGAA
GAGATCATACCATCATCTTCAAAGTCATACCTCTAATTGGAGAGTATCTGGTATTTACC
ATGATTTTTGTGACACTGTCAATTATGGTAACCGTCTTCGCTATCAACATTCATCATCGT
TCTTCTCAACACATAATGCCATGGCGCCTTTGGTCCGCAAGATTTTCTTACACGCTT
CCCAAAGTGTCTTGCATGAGAAGTCATGTAGACAGGACTTCACTCAGAAAGAGGAAACT
GAGAGTGGTAGTGACCAAAATCTTCTAGAAAACACATTGGAAGCTGCGCTCGATTCTATT
CGCTACATTACAAGACACATCATGAAGGAAAATGATGTCGCTGAGGTTGTTGAAGATTGG
AAATTCATAGCCAGGTTCTTGATCGGATGTTTCTGTGGACTTTTCTTTTCGTTTCAATT
GTTGGATCTCTGGGCTTTTTGTTCTGTTATTTATAAATGGGCAATATATTAATACCA
GTTCAAATTGAAATGCAATAAGTGA
    
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Clone variation with respect to NM_000745.3
1386 t=>a

5' Read Nucleotide Sequence: >OriGene 5' read for NM_000745 unedited

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TATAGGCGGCCGCGAATTCGGCACGAGGCTGCTGTCCCGCGGGAGCTGTGGCGCGGAGC
GGCCCCCTGCTGCGTCTGCCCTCGTTTTGTCTCACGACTCACACTCAGTGTCCATTCC
CCAAGAGTTTCGCGTTCCCGCGCGGGCGGTCGAGAGGGCGGCTGCCCGCGGTCGCCGCGGG
CGCGGGGCGATGGCGGCGCGGGGTCAGGGCCCCGCGCGCTCCGCTGCTGCTCTTGGTC
CAGCTGGTCGCGGGGCGCTGCGGTCTAGCGGGCGCGGGCGGCGCGCAGAGAGGATTA
TCTGAACCTTCTTCTATTGCAAAACATGAAGATAGTTTGCTTAAGGATTTATTTCAAGAC
TACGAAAAGATGGGTTTCGCTCTGTGGAACACCTGAATGACAAAATAAAAAATAAAATTTGGA
CTTGCAATATCTCAATTGGTGGATGTGGATGAGAAAAATCAGTTAATGACAACAAACGTC
TGGTTGAAACAGGAATGGATAGATGTAATAAATTAAGATGGAACCCTGATGACTATGGTGG
ATAAAAAGTTATACGTGTTCTTCAGACTCTGTCTGGACACCAGACATCGTTTTGTTGAT
AATGCAGATGGACGTTTTGAAGGGACCAGTACGAAAACAGTCATCAGGTACAATGGCACT
GTCACCTGGACTCCACCGGCAAACTACAAAAGTTCCTGTACCATAGATGTCACGTTTTTT
CCATTTGACCTTCAGAACTGTTCCATGANATTTGGTTCTTGGACTTATGATGGATCACAG
GTTGATATATTNCTAGAGGACAAGATGTAGACCAGAGAGATTTTTTTGATATGGAGATGG
GNAGATTGTGAGTGCACAGGGAGCAAAGGAACAGACCGNCAGCTGTGGCTGGTTTCGNAT
GTCCT
    
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3' Read Nucleotide Sequence:	>Forward primer walk for NM_000745 unedited AATTGGGGCCTTAGTTCGGTTTATTTAACCCAGGTTTCAGGAATATTAATACCAGTCTCA AATTGGNAAATGCAAATAATTGAAGCCTCCCAGGNACTGAAGTATATACATTTAGTTAA CACACATATATCTGATGGCACCTATAAAATTATGAAAATGTAAGTTATGTGTTAAATTTA GTGCAAGCTTTAACAGACTAAGTTGCTAACCTCAATTTATGTTAACAGATTATCCATTTG AACAGTTGGCTGTATGACTGAAGTAATAACTGATGAGATACATTTGATCTTGTAATAATA GCAAAAATATTATCTGAACTGGACTAGTGAAAAATCTAGTATTTGTATCCTGGCAAATAAT ACTAATTTATAATCCACAGTAAAGTTCATCCTTTGACTGTGCTGGAGAATTCCAGTTGTA TTTGAAGACTGATTTTAAACTTTTCTGCATTTGGTAAAGGTATGTAACTTTTCTGCAC TCACTGAGTAACAGCTAATCTTTATATCATATTATACTGTTATATTTGAAAACTGACT ACCTGATATAATTCCTTATTGCGATGTTTGGTATAATGACTACTTATTGTGCTCCTGCTTC CGGTGGCCTACACCTGTTATCTCGGTGTGTTGACGTTACAGACTTCTCGGGTAACCATA GGGGCGCAACGCAAGGAGCCACAGCCGGGTAGCTATGGCATATGATTGTGTTATGCCA GTAATATCCTAGGTCGTTAACTTTTTATGCCAGCCATTATATGCCCGACCCCTGTTG CAACAATTTTCCAACAGTCTTCTATTACTTGTCAATAGGGCGGGAGTACAGCGGGTC GGTCTGGCCGCTATTTCCCTCCC
Restriction Sites:	NotI-NotI
ACCN:	NM_000745
Insert Size:	3200 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:	NM_000745.2 , NP_000736.2
RefSeq Size:	2468 bp
RefSeq ORF:	1407 bp
Locus ID:	1138
UniProt ID:	P30532
Cytogenetics:	15q25.1
Domains:	Neur_chan_memb, Neur_chan_LBD
Protein Families:	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane

Gene Summary:

The protein encoded by this gene is a nicotinic acetylcholine receptor subunit and a member of a superfamily of ligand-gated ion channels that mediate fast signal transmission at synapses. These receptors are thought to be heteropentamers composed of separate but similar subunits. Defects in this gene have been linked to susceptibility to lung cancer type 2 (LNCR2).[provided by RefSeq, Jun 2010]

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