

## Product datasheet for **SC207827**

### Nicotinic Acetylcholine Receptor alpha 7 (CHRNA7) (NM\_000746) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	Nicotinic Acetylcholine Receptor alpha 7 (CHRNA7) (NM_000746) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	CHRNA7
Synonyms:	CHRNA7-2; NACHRA7
ACCN:	NM_000746
Insert Size:	2000 bp



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**Insert Sequence:** >SC207827 3'UTR clone of NM\_000746  
 The sequence shown below is from the reference sequence of NM\_000746. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GTGGAGGCGGTGTCCAAAGACTTTGCGTAAACCACGCTGTTCTGTACATGTGAAAACTCACAGATGG
GCAAGGCCTTTGGCTTGGCGAGATTTGGGGGTGCTAATCCAGGACAGCATTACACGCCACAACCTCCAGT
GTTCCCTTCTGGCTGTCAGTCGTGTTGCTTACGGTTTCTTTGTTACTTTAGGTAGTAGAATCTCAGCAC
TTTGTTCATATTCTCAGATGGGCTGATAGATATCCTTGGCACATCCGTACCATCGGTCAGCAGGGCCA
CTGAGTAGTCATTTTGGCCATTAGCCACTGCCTGGAAAGCCCTTCGGAGAGCTCCCATGGCTCTCA
CCACCGAGACAGTTGGTTTTGCATGTCTGCATGAAGGTCTACCTGAAAATCAACATTTGCTTTTTGCT
TGTGTACAAACCAGATTGAAGTAAAAATAAACAGACTACTAAATCCTTTCCAATAATTGACTGGTG
GAAGGAAAACAAAAACAAAACTAAAACTTTAGCTTTTCTGCAATCAACTTTTTATTTTTATTT
TTATTTCTATCAAAGACGGTAGAGAGAAACAGCTTGATGCTGTTTCTACATTAATAAAAAAAAAAAAAAAG
ACAGACTGTTGGTCTTACTAAGGATGTTTTTACCAGCCTGCCTGACTTCTGCAAACCTACCCTGTCAAG
GAGATCAAAGGGACGCAGGTTTCTGTTTATTCTGAACAAGGGCCAGGCCCGCGGAGTGTCTTTGGTGG
ATCCCAGATAACTCTAGGTGCTGCTCTCAGACACTGAGGAGTTGAGCAAATCTGTTCTATTCTGCAGA
ACCCACAGGACAAATAAGAGTTCTACTAGAATTAACAGCCAAAAGAATAGTACAGCTAAGTGAAGCC
ACTTACGTGGGCTTTAAAAAATAATGTGTTAGCTGATTACATGCACACTGGAGTTAATTAGTCTTAGAA
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GCCAGGAAGTAGAGGCTGGGAACCTTTCTGGTCCCAGTATGGCAGGCCAGGGAGGGGATGGTGTGG
CCCATCCCTTCTCTGGATACCTGGCCAGTGGCAGGCAGCAGGGAGGAGCTGGCCGACCCTCAGTACTG
ACAAGCCAGCAATTCTGAGTTCTGGCCTTTGGGAGTCTGCCTGCTCCAAGCCAGTCCACCCAGCTGCA
GCCCAAAGCTGGCTCAAAGTCTTGGGTGGATTCACTGGAGATGGGCAACTTAAAAACAAGAGAACT
TTAATTTTTAAACCTAAGTGATGATACAGCTCTTCCCTTAGATTATCGCCAGGCTGGAGTGCAGTGGC
ATGATCTCAGCTCACTGCAAGCTCCACCTCCTGGGTTTCATGCCATTCTCCTGCCTCAGCCTCCCCCGA
GTAAGTGGGAATACAGGCGCCGCCACCATGCCTGGCTAATTTTTTGTATTTTTAGTAGAGATAGGGTT
TCATCATGTTAGCCAGGATGGTCTCATTCTTATTCTTTAATGAGATCAGAGGGTAATTCACCAAGAAAG
ACCTCTCCTGTTCCATTGTGTCATCAACAACCTGCTCAGAGCTCAAATTAAGAAGGCTTCTGAGCCC
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TTAAATAAATTGTATGTGCTTTTCCAGCCATCTGGCTCACTCATTCTGGGTAATGCACATGACTTTGT
TTGCACTGGAGGAAGATGGAAGCTTGCCTGTGTGCGGTGTGTGTGTGTGTAAGTGTGAGGTACCTTG
TGTGTGACAAGAGACCTCACTTACGAGAAAGTTGGTGGATCAGGACATCCAGCCTCAGGCGGCTTGGG
GCAGGATCATTCTCAGCAGGCATTCTTCCACATGCTATGGATGAACCATGCACAAGATTTTCGGTT
ACGCGTAAGCGGCCGCGGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_000746.6](#)

**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 thought to be hetero-pentamers composed of homologous subunits. The proposed structure for each subunit is a conserved N-terminal extracellular domain followed by three conserved transmembrane domains, a variable cytoplasmic loop, a fourth conserved transmembrane domain, and a short C-terminal extracellular region. The protein encoded by this gene forms a homo-oligomeric channel, displays marked permeability to calcium ions and is a major component of brain nicotinic receptors that are blocked by, and highly sensitive to, alpha-bungarotoxin. Once this receptor binds acetylcholine, it undergoes an extensive change in conformation that affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane. This gene is located in a region identified as a major susceptibility locus for juvenile myoclonic epilepsy and a chromosomal location involved in the genetic transmission of schizophrenia. An evolutionarily recent partial duplication event in this region results in a hybrid containing sequence from this gene and a novel FAM7A gene. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2012]

**Locus ID:**

1139

**MW:**

74.5