

## Product datasheet for **SC216875**

### CHRNA2 (NM\_000742) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	CHRNA2 (NM_000742) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	CHRNA2
ACCN:	NM_000742
Insert Size:	1903 bp



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**Insert Sequence:** >SC216875 3'UTR clone of NM\_000742  
The sequence shown below is from the reference sequence of NM\_000742. 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
CTGCCTCCGTTCTAGCTGGAATGATCTGACTGCACCTCCCTCGAGCTGGCTCCCAGGGCACCCCGCT
GACCATCTTTTACCCTCTCTGCTACAGCTGCCTCTGGTGTCCCTTTGGGATGAGCAGGTGCCTCTCC
GCGGAGTCTGGACTGACCCAGGGATTGCAGGCTTCCATCCAGCTTAACGTTATTGTACCAGGGCTGA
CAGCTGCTGGGTGCAAAGCCCTGTTTTGGATACGGAGGAGCTGGGGAAGCTCTGCAGAAGTCCGAAT
AGTGTGGTGACCAAGTGGGGCAGAGTAAGATTCTCTGGAGGAGCAGTGCAGACCCTAAGTGACAGAAG
GGTCAACCAGGGGACAGTGGGGCCAGGGTGCAGGGAAGGAATGCAGACCTCAAAGGAGGGGCCGTG
GGGCAAAGGGGAGGGTTCTTGGATGTGGAAGGGCTTTGAACAATGTTTAGATTTGGAGATGAGCCAA
AGTGCCAGGGAGAACAGCCAGGTGAGGTGGGAGGTTGGAGAGCCAGGTGAGGTCTCTGTAAGTCAGGCT
GGGGTTGAAGTTTGGAGTCTGTCCGAGTTTGCAGGGTGTGAGCTGTATGGTCCAGCAGGGGAGTAATA
AGGGCTCTTCTGGAAGGGGAGGAAGCGGGAGGCAGGGCCTGCACCTGATGTGGAGGTACAGGGCAGATC
TTCCCTACCGGGGAGGGATGGATGGTTGGATACAGGTGGCTGGGCTATCCATCCATCTGGAAGCACAT
TTGAGCCTCCAGGCTTCTCCTTGACGTCAATCCTCTCCTTCTGCTGCAAAATGGCTCTGCACCAGCC
GGCCCCCAGGAGGTCTGGCAGAGCTGAGAGCCATGGCCTGCAGGGGCTCCATATGTCCTACGCGTGCA
GCAGGCAAACAAGAAAGACCATCCTGAGCTGCTCCTGACCACCTCAAATCATCTCATTGGCCTGTC
CTCCCTCCCTTACCCTCCTCCCTCCCAGGAACCTGTTCCCTGTGCCTGGCTCCATCAGGAGGAG
GCCTCACTTGGGAGTTGAAGATCTTTGCCTTTAGTTCCCTTTGATTCTGAACTTCTCAAAGGCAGGTACT
CTGCCTGTTATTTTTCCACCCCAAGCCTAGCACAGCGCCGGGTGAGTGGGGTCAAGCACTTAGGGCG
TTTGTCTGAGTGGTTGAGGGGAGCAAGCTGGATTGTTGGGCCCCAGGACTGTTGTGTAGATGGCAA
GCTGTGGTCCCGTCCCTTATCAGCCTGCCTCGTCTCTCCAGAGCCCGAGGTGTGTTGACCTGCTCTG
AACCTTCAGAGCAGCCTGTGTGTGCACCTTGAATGCAATGCACCACCCACAGTCTGAGGCTGCACC
CAGGATCCAGGCCGAGCTGCTGCTCCTGGGATCGGGCAACAGACCTCCCCCAACTCTGTCCAGACTG
GAGGGTGGGACATTGGCAGCTAACAGATGTGGGCATCGGGTTCTCGGGACAGCATGGAGGCTCCAGGCA
GGAAGCCGAGCAGGGCGAGCTTCCAGTTTCTTTTGGTCTAGGGGTCCCCTCCTCCAAACCCCAAAA
TGTCTCTCCCTGACACTCTCAGGGGAAACCAGCCTGGCTGTGACGCCCTGCCCCAGGCCCTGCCATGCC
TCACTTCTCTCCACAACCCCTGCTCATGGACATCTGGTCTCTGGCTCCTGTCTACTCGTGTGCAT
GCAGCCCCCAGCGCCCTCTCCTCCCACTTGCTCTCCGAGGCCCTCAGAGCTCTCGGGTCCAGGCTCC
CAGACCCACTCTCCTGAGACAGTGTGTTCACTTCTGTTATCCATGTCTCCCATCCATCTTGATGTGA
ATAAAGAGATTAATAAAGCTGCACCTACTGCTGACTCAA
AGCGGACCGACTTACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCC
CAACCTGCCATCACGAGATTTGATTCCACCGCCG
```

**Restriction Sites:** SgfI-RsrII

**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 µg dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_000742.4](#)

**Summary:**

Nicotinic acetylcholine receptors (nAChRs) are ligand-gated ion channels formed by a pentameric arrangement of alpha and beta subunits to create distinct muscle and neuronal receptors. Neuronal receptors are found throughout the peripheral and central nervous system where they are involved in fast synaptic transmission. This gene encodes an alpha subunit that is widely expressed in the brain. The proposed structure for nAChR subunits 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. Mutations in this gene cause autosomal dominant nocturnal frontal lobe epilepsy type 4. Single nucleotide polymorphisms (SNPs) in this gene have been associated with nicotine dependence. [provided by RefSeq, Nov 2009]

**Locus ID:**

1135

**MW:**

67