

## Product datasheet for **SC200090**

### Choline Acetyltransferase (CHAT) (NM\_020985) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	Choline Acetyltransferase (CHAT) (NM_020985) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	CHAT
Synonyms:	CHOACTASE; CMS1A; CMS1A2; CMS6
ACCN:	NM_020985
Insert Size:	2000 bp



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**Insert Sequence:** >SC200090 3'UTR clone of NM\_020985  
 The sequence shown below is from the reference sequence of NM\_020985. 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
ACGAGGCCAGCCAGGGACACCAACCTTGAACTCCTGCCACTAGGTTTCACCTCCCAAACCCAGCCTCTA
GAACAGCCAGACCCTGCAGATCCCCACTCCCGTCCCTTACCCAGCTTTCCACAGCTCCCTGTCCCTCAG
GGTCCAACCTCACAGACCATACAGAGACATCACACAGAGCCGGAGTGTTAGGAGGAAAGGGTCCCCTCTT
CATGCATGGGAATCATCATTTTTCAAGGTGGCTTTGGGCCTGCACACTGGGAAATGGGACCTGCCTGGCT
CAGAGGCAGCCTGGATGCACTGGGAACACACTAAGGACTCCTTCTGTGGTCTTGGAAGCTTAGTGT
TCATGTCTCCTCCCTAGCAGGACCTAGTATGTCCAGGTGATGCTTCTGCCAAAGGAAAGGATGAGTCA
CTCTATTACATGCAACGTACCTAATGAGTTAGGAAGGAAGAGGCTAACTCCAGGTCATTACCTCTTTTC
TTTTTTGGGGGAGAGGAGGCTGTGTTTTGAGATTCAGAGCATTCTATCGTGGCATTCCCAAGTGTCTCC
ACTGAGCCGTACAGTCTACAAGCACCCACTCCTCCACACACACACAGAGCCCAAGTCCATTTAAAA
TATAGTGACTTGGGCCCAAAACACATTTCTGCTTTCTGTGCCAGGGGCAGCCTTCTGTTGAGCTCAGA
AAATTGTGTCCAGCTATTCTGAAAGGAAAAAAAAATTTATCTGTGACTGCCCTGGAGTTGCTGCCACTC
TCTGCTTAGCAGGCGGCATCAGGGCCAGTCCAAGATGAGTAAACTGCACAGCCCCAAGCAGATGGTGCC
TGGTGCCGGTGGGTTTGCAGAGGACCTGGCCCCCTCCCGGGTCTGCCATTTGCATTTTTTCTGCATC
TTTTCCCTCTCCTCCCTCCTACATGCTCCAGTAGGTGAAGAGAGATGGTTACTTTGGGTTTTCCAT
TATCTGTTTTGTTTTAAGACAGAGATTTTTAAGAAAACCCCTGACATTAATTTAGAAATTTCTAGT
GATTC AAGCAGGACCCCTTAGGCAGCTGGGCTCCTTTATTTGGAGCAGGCTATCCAGGACTTGACAAA
AACCCATGTGGTAGGCCCTAGAGCAGGGCTCTCTTCTGGCCTCAGGGACTTAGGGGACAGCTGGCAGGG
AGCAGGGCTGGGAGGAGGCACAGCCTCCTCCAGAGTCAGCCCCAGCCCCAGCCCCAGCTCCAGCTCCA
GCCCCAGCTCCAGCTCCAGCCCCAGCTCCAGCTCCAGCATGGGCAGGACAGGCAGGTGAGCAGAGGCAG
AGTTGAGATGTCTCCAGAGACTGTGATCATAGGAGAGACACAAGAGGCACCTTCTATTAGAGCACATTT
TTATGGGAAGTCTAAAGGGCAGAGGGAGGGAGTAAGAAAGCAACCAGAGAAATCTACAGCATAGAGCCC
GTGTGTTCTGCTCCACATCCCTCCAATCTGCTGCTTCTGCTGAGCACTCTGCTCTAGCCAGCAATC
CTGTAGGTCTCCCTTCTTTGTGCCACTGTGAAGGCTCTCCACACTCGACCTGGACTGTCACAGGCTGG
CAGAGGTGGGGTGGCATTGACCTTTGCTCAGCTCTTTGAAAACACAAGCAGCCTCAAGAAAGTGAATT
CCTTGAACCCCTGGTTTTAGATGGAGGATCTCTATTAGATGTCATGGGAGATTTGGGCACTACCCTTTG
AACATACAAACCTAAGTCATTGGCCTGAGATTTATGCTCCTTCCCTCCACGGCCACCTTCTACTCTG
CTTAGGAAGTTGAGCACAAGGGTCTGGGTTTTCTGGGGAAAGGCAGCCACCTGCTGTAAGTTGGCC
CAAAGTACTTGTCTGTTCTCTCCAAGTGACCACAGTGCAGATCTGAGTTCTCCTCCGGTTCCTTTCCC
TCCATGGATTTCTGCGCAGACATAGAGTCCAGCTATGGGGCCAGGCAGCCCCACCAACCTCGGCCAA
ACGCGT AAGCGGCCCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
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\\_020985.4](#)

**Summary:**

This gene encodes an enzyme which catalyzes the biosynthesis of the neurotransmitter acetylcholine. This gene product is a characteristic feature of cholinergic neurons, and changes in these neurons may explain some of the symptoms of Alzheimer's disease. Polymorphisms in this gene have been associated with Alzheimer's disease and mild cognitive impairment. Mutations in this gene are associated with congenital myasthenic syndrome associated with episodic apnea. Multiple transcript variants encoding different isoforms have been found for this gene, and some of these variants have been shown to encode more than one isoform. [provided by RefSeq, May 2010]

**Locus ID:**

1103

**MW:**

73.4