

Product datasheet for **SC307782**

CLACP (COL25A1) (NM_198721) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLACP (COL25A1) (NM_198721) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLACP
Synonyms:	AMY; CFEOM5; CLAC; CLAC-P; CLACP
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 sequence for NM_198721 edited
 ATGCTGCTGAAGAAGCACGCAGGGAAAGGAGGGGGCCGGGAGCCCAGATCCGAGGACCCG
 ACCCCTGCCGAACAGCATTGTGCCCGGACCATGCCCCCGTGTGCCGTCCTGGCGGCCCTC
 CTGTCACTGGTGGCCGTGGTGTCTTGCCTGTACCTGGGTGTGAAAACCAACGACCTCCAG
 GCGAGGATCGCCGCTCTCGAATCCGCCAAAGGGGCCCTTCCATTCATCTGCTGCCTGAT
 ACCCTGGATCACCTCAAGACTATGGTCAAGAGAAAAGTGGAGCGACTTCTGGCTCAGAAA
 TCCTATGAACATATGGTAAAAAAGAATCGCAAGAGAAAGCACCTCAGAATGTAACCTGC
 CCAGCAGGCCCTCCAGGGAAACGAGGTAAGAGAGGCCGAAGAGGAGAATCTGGTCTCTCT
 GGACAGCCTGGTCTCAGGGCCCTCTGGTCCAAAAGGCGATAAGGGAGAACAAAGGTGAT
 CAGGGACCTAGGATGGTGTTCCTAAAAATCAATCATGGGTTTCTCTGCTGATCAGCAG
 CTCATTAACGCCGCTGATTAAGGGTGACCAAGGACAGGCAGGGCCTCCAGGACCCCT
 GGCCCTCCAGGCCAAGAGGGCCACCTGGGGACACAGGAAAGATGGCCCCCGTGGAAATG
 CCAGGAGTACCCGGTGAACCAGGAAAGCCAGGAGAACAAAGGCTTGATGGGTCCTTAGGG
 CCTCCGGGACAAAAGGGTCTATTGGAGCACCTGGAATCCAGGGATGAATGGGCAAAAAG
 GGTGAGCCCGGGTTGCCCTGGAGCAGTAGGACAGAATGGAATACCAGGACCTAAGGGAGAA
 CCTGGAGAACAAAGGTGAAAAGGGAGACGCTGGAGAGAACGGCCCAAGGGTGACACAGGC
 GAAAAGGGTGACCTGGATCATCTGCTGCAGGAATTAAGGGAGAACCTGGGGAATCTGGT
 CGTCCAGGGCAAAAGGGTGAACCAGGGCTTCTGGGCTTCTGGACTTCCGGGGATAAAG
 GGAGAACCAGGTTTCATTGGTCTCAAGGAGAACCAGGCTTACCAGGTTTACCAGGAACA
 AAAGGTGAACGGGGGAAGCAGGGCCTCCTGGAAGAGGTGAGCGAGGGGAACCTGGAGCC
 CCCGGACCAAGGGGAAACAAGGTGAATCAGGAACTAGAGGCCAAAGGGGTCAAAGGGG
 GATCGTGGAGAAAAAGGGGACTCTGGAGCTCAGGGACCAAGGGGTCCACCTGGTCAAAAA
 GGGGATCAAGGAGCCACTGAGATCATAGACTACAACGGCAACCTCCACGAAGCCTTACAG
 AGGATTACCACCTTAACCTGTACGGGTCCCTGGACTCCTGGACCTCAAGGACTACAA
 GGGCAAAAGGGAGAGCAGGGATCTCCAGGAATCCAGGAATGGATGGAGAGCAGGGACTC
 AAAGGCTCAAAGGGAGACATGGGGACCCAGGTATGACAGGTGAAAAAGGAGGAATTGGA
 CTTCTGGATTACCGGGAGCCAATGGAATGAAAGGAGAAAAAGGAGATTCTGGAATGCCG
 GGTCCACAGGGTCTTCTATCATAGGCCACCAGGCCACCAGGTCCCCATGGCCCACCT
 GGCCCCATGGGACCTCATGGACTTCTGGACCAAAAGGTACAGATGGTCTCATGGGACCC
 CATGGCCCTGCAGGTCCCAAAGGAGAAAGAGGTGAAAAAGGAGCTATGGGAGAGCCTGGA
 CCAAGAGGGCCCTATGGGCTGCCTGGGAAAGATGGAGAGCCTGGTCTTGATGGCTCCCT
 GGTCCACGGGGTGAAGGGTGTCTAGGAGAAAAGGGAGAAAAGGGATTCCGTGGCGTT
 AAGGGGAAAAAGGGGAGCCAGGCCAGCCTGGCCTGGATGGGCTGGATGCCCTTGCCAA
 TTGGGGCCAGATGGCTTACCCATGCCTGGCTGTTGGCAAAAGTGA

Restriction Sites: Please inquire

ACCN: NM_198721

Insert Size: 2600 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).

OTI Annotation: The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

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:

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_198721.1](#), [NP_942014.1](#)

RefSeq Size: 2607 bp

RefSeq ORF: 1965 bp

Locus ID: 84570

UniProt ID: [Q9BXS0](#)

Cytogenetics: 4q25

Protein Families: Transmembrane

Gene Summary: This gene encodes a brain-specific membrane associated collagen. A product of proteolytic processing of the encoded protein, CLAC (collagenous Alzheimer amyloid plaque component), binds to amyloid beta-peptides found in Alzheimer amyloid plaques but CLAC inhibits rather than facilitates amyloid fibril elongation (PMID: 16300410). A study of over-expression of this collagen in mice, however, found changes in pathology and behavior suggesting that the encoded protein may promote amyloid plaque formation (PMID: 19548013). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.