

Product datasheet for **SC310201**

CLACP (COL25A1) (NM_032518) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLACP (COL25A1) (NM_032518) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLACP
Synonyms:	AMY; CFEOM5; CLAC; CLAC-P; CLACP
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF:	>NCBI ORF sequence for NM_032518, the custom clone sequence may differ by one or more nucleotides <pre> ATGCTGCTGAAGAAGCACGCAGGGAAAGGAGGGGGCCGGGAGCCAGATCCGAGGACCCG ACCCCTGCCGAACAGCATTGTGCCCGGACCATGCCCCGTGTGCCGTCTGGCGGCCCTC CTGTCACTGGTGGCCGTGGTGTCTTGCCTGTACCTGGGTGTGAAAACCAACGACCTCCAG GCGAGGATCGCCGCTCTCGAATCCGCCAAAGGGGCCCTTCCATTCACTGCTGCCTGAT ACCTGGATCACCTCAAGACTATGGTGCAAGAGAAAGTGGAGCGACTTCTGGCTCAGAAA TCCATGAACATATGGCTAAAAATAAGAATCGCAAGAGAAGCACCTTCAGAATGTAAGTGC CCAGCAGGCCCTCCAGGGAACGAGGTAAGAGAGGCCGAAGAGGAGAATCTGGTCTCTCT GGACAGCTGGTCTCAGGGCCCTCCTGGTCCAAAAGGCGATAAGGGAGAACAAGGTGAT CAGGGACCTAGGATGGTGTTCCTAAAAATCAATCATGGGTTTCTCTGCTGATCAGCAG CTCATTAACGCCGCTGATTAAGGGTGACCAAGGACAGGCAGGGCCTCCAGGACCCCT GGCCCTCCAGGCCAAGAGGGCCACCTGGGGACACAGGGAAGATGGCCCCGTGGAATG CCAGGAGTACCCGGTGAACAGGAAAGCCAGGAGAAACAAGGCTTGATGGGTCTCTAGGG CCTCCGGGACAAAAGGGTTCTATTGGAGCACCTGGAATCCAGGGATGAATGGGCAAAAG GGTGAGCCCGGGTTGCCTGGAGCAGTAGACAGAATGGAATACAGGACCTAAGGAGAA CCTGGAGAACAAGGTGAAAAGGGAGACGCTGGAGAGAACGGCCCAAGGGTGACACAGGC GAAAAGGGTGACCCTGGATCATCTGCTGCAGGAATTAAGGGAGAACCTGGGAATCTGGT CGTCCAGGGCAAAAGGGTGAACAGGGCTTCTGGGCTTCTGGACTTCCGGGGATAAAG GGAGAACCAGGTTTCATTGGTCTCAAGGAGAACCAGGCTTACCAGGTTTACCAGGAACA AAAGGTGAACGGGGGAAGCAGGGCCTCCTGGAAGAGGTGAGCGAGGGGAACCTGGAGCC CCCGGACCAAGGGGAAACAAGGTGAATCAGGAAGTAGAGGCCAAAGGGGTCAAAGGGG GATCGTGGAGAAAAAGGGGACTCTGGAGCTCAGGGACCAAGGGGTCCACCTGGTCAAAA GGGGATCAAGGAGCCACTGAGATCATAGACTACAACGGCAACCTCCACGAAGCCTTACAG AGGATTACCACCTTAAGTGTACGGGTCCCCCTGGACCTCCTGGACCTCAAGGACTACAA GGGCCAAAGGGAGAGCAGGGATCTCCAGGAATCCAGGAATGGATGGAGAGCAGGGACTC AAAGGCTCAAAGGGAGACATGGGGGACCCAGGTATGACAGGTGAAAAAGGAGGAATTGGA CTTCTGGATTACCGGGAGCCAATGGAATGAAAGGAGAAAAAGGAGATTCTGGAATGCCG GGTCCACAGGGTCTTCTATCATAGGCCACCAGGCCACCAGGTCCCCATGGCCCACCT GGCCCCATGGGACCTCATGGACTTCTGGACCAAGGGTACAGATGGTCTATGGGACCC CATGGCCCTGCAGGTCCCAAAGGAGAAAGAGGTGAAAAAGGAGCTATGGGAGAGCCTGGA CCAAGAGGGCCCTATGGGCTGCCTGGGAAAGATGGAGAGCCTGGTCTTGATGGCTCCCT GGTCCACGGGGTGAGAAGGGTGATCTAGGAGAAAAGGGAGAAAAGGTGACCTCTCCATCC CAGCATGTACCTTGTGTTGATTCTCTCCTGCTGTCTGCTTGTGCTTGTGCTGAT TCCATTGA </pre>
Restriction Sites:	Please inquire
ACCN:	NM_032518
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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_032518.2, NP_115907.2</u>
RefSeq Size:	2681 bp
RefSeq ORF:	1929 bp
Locus ID:	84570
UniProt ID:	<u>Q9BXS0</u>
Cytogenetics:	4q25
Domains:	Collagen
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 (2) lacks three 3' exons but includes an alternate 3' exon, resulting in a novel 3' coding region and 3' UTR, compared to variant 1. It encodes isoform 2 which is shorter and has a distinct C-terminus, compared to isoform 1.