

Product datasheet for **SC122503**

CLACP (COL25A1) (BC036669) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLACP (COL25A1) (BC036669) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLACP
Synonyms:	CLAC; CLACP; collagen, type XXV, alpha 1; collagen-like Alzheimer amyloid plaque component; collagenous Alzheimer amyloid plaque component; OTTHUMP00000196081; OTTHUMP00000196082
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC036669 edited

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GAGGGGCCACTGTTGGGGCCCTCGAAAGAGGTGTCGGTCTCTGGGAGTCGGAAGAGCTG
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TCATAGGCCACCAGGCCACCAGGTCCCCATGGCCACCTGGCCCATGGGACCTCATG
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 TCCTTTTTCTCTATGGACAATACAACTACTATGGATAATTTTTATTTCCCTGTTTAAATAGC
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GTCCAATGACCAGGCTTTCTTAATGTAAAAACAAAACAGTGTACCAATAGATGATGTGTGT
TTACTCGGAAAAAAAAAAAAAAAA

**5' Read Nucleotide
Sequence:**

>OriGene 5' read for BC036669 unedited
 NGGGACTGGGTTTGTATACCACCTTTATGGGCGCCGCATAACTTCGTATAGCATACA
 TTATACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGGAGG
 GGCACACTGTTGGGCCCCTCGAAAGAGGTGTCGGTCCTCTGGGAGTCGGAAGAGCTGTCTG
 GGATTATTTGAGGTGTAGAGGGTGGGAAGCGAAGCCGAGACGGCCGACCCGCCACGATG
 CTGCTGAAGAAGCACGCAGGGAAGGAGGGGGCCGGGAGCCAGATCCGAGGACCCGACC
 CCTGCCGAACAGCATTGTGCCCGGACCATGCCCCCGTGTGCCGTCTGGCGGCCCTCCTG
 TCAGTGGTGGCCGTGGTGTCTTGCTGTACCTGGGTGTGAAAACCAACGACCTCCAGGCG
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 TATGAACATATGGCTAAAATAAGAATCGCAAGAGAAGCACCTTCAGAATGTAACGCCCA
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 ACCAGGACCTAAGGGAGAACCTGNAGAAACAAGTAAAAGGGAGACGCTGGAGAGAACNG
 CCCCAAGTGACACAGGCGAAAAGGGTGACCCTGGATCATCTGCTGCAGAATTNAA

Restriction Sites:

Please inquire

ACCN:

BC036669

Insert Size:

4649 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).

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:

[BC036669.2](#), [AAH36669.1](#)

RefSeq Size:

4644 bp

RefSeq ORF:

1488 bp

Locus ID:

84570

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]