

## Product datasheet for **RC234647**

### CLACP (COL25A1) (NM\_001256074) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CLACP (COL25A1) (NM_001256074) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CLACP
Synonyms:	AMY; CFEOM5; CLAC; CLAC-P; CLACP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234647 representing NM\_001256074  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGCTGAAGAAGCACGCAGGAAAGGAGGGGGCCGGGAGCCAGATCCGAGGACCCGACCCCTGCCG  
 AACAGCATTGTGCCCGGACCATGCCCCGTGTGCCGTCTGGCGGCCCTCCTGTCAAGTGGTGGCCGTGGT  
 GTCTTGCTGTACCTGGGTGTGAAAACCAACGACCTCCAGGCGAGGATCGCCGCTCTCGAATCCGCCAAA  
 GGGGCCCTTCCATTCATCTGCTGCCTGATACCTGGATCACCTCAAGACTATGGTGCAAGAGAAAGTGG  
 AGCGACTTCTGGCTCAGAAATCCATGAACATATGGCTAAAATAAGAATCGCAAGAGAAGCACCTTCAGA  
 ATGTAAGTCCCAGCAGGCCCTCCAGGGAACGAGGTAAGAGAGGCCGAAGAGGAGAATCTGGTCTCTCT  
 GGACAGCTGGTCTCAGGGCCCTCCTGGTCCAAAAGGCGATAAGGGAGAACAAGGTGATCAGGGACCTA  
 GGGCCTGCCAGGCTTCCCACAGTTGCTGCCCTGCACAGTAATCAGATCCTCACCGTCAAGGGTGACCA  
 AGGACAGGCAGGGCCTCCAGGACCCCTGGCCCTCCAGGCCAAGAGGGCCACCTGGGGACACAGGGAAA  
 GATGGCCCCCGTGAATGCCAGGAGTACCCGGTGAACCAGGAAAGCCAGGAGAACAAGGCTTGATGGGTC  
 CTCTAGGGCCTCCGGGACAAAAGGGTTCTATTGGAGCACCTGGAATTCAGGGATGAATGGGCAAAAGGG  
 TGAGCCCGGGTTGCTGGAGCAGTAGGACAGAATGGAATACCAGGACCTAAGGGAGAACCTGGAGAACA  
 GGTGAAAAGGGAGACGCTGGAGAGAAGGCCCAAGGGTGACACAGGCGAAAAGGGTGACCTGGATCAT  
 CTGCTGCAGGAATTAAGGGAGAACCTGGGGAATCTGGTCGTCAGGGCAAAAGGGTGAACCAGGGCTTCC  
 TGGGCTTCTGGACTTCCGGGATAAAGGGAGAACCAGGTTTCATTGGTCTCAAGGAGAACCAGGCTTA  
 CCAGGTTTACCAGGAACAAAAGGTGAACGGGGGAAGCAGGGCCTCCTGGAAGAGGTGAGCGAGGGGAAC  
 CTGGAGCCCCCGACAAAGGGGATCGTGGAGAAAAGGGGACTCTGGAGCTCAGGGACCAAGGGGTCC  
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 CAGGGTCCCCCTGGACCTCCTGGACCTCAAGGACTACAAGGGCCAAGGGAGAGCAGGGATCTCCAGGAA  
 TCCCAGGAATGGATGGAGAGCAGGGACTCAAAGGCTCAAAGGGAGACATGGGGGACCCAGGTATGACAGG  
 TGAAAAGGAGGAATTGGACTTCTGGATTACCGGGAGCCAATGGAATGAAAGGAGAAAAAGGAGATTCT  
 GGAATGCCGGGTCCACAGGGTCTTCTATCATAGGCCACCAGGCCACCAGGTCCCATGGCCACCTG  
 GCCCATGGGACCTCATGGACTTCTGGACCAAGGGTGAACCAGGGTAAATGGTGTAAAGGATTGAA  
 GGGTGAACCAGGTCAAAGGGTGACAGAGGACCCCTTGGTCTTCCAGGAGCATCTGGCTTAGACGGAAG  
 CCAGGATCCCGGGTACAGATGGTCTATGGGACCCATGGCCCTGCAGGTCCAAAGGAGAAAGAGGTG  
 AAAAGGAGCTATGGGAGAGCCTGGACCAAGAGGGCCCTATGGGCTGCCTGGCTTCCCTGGTCCACGGGG  
 TGAGAAGGGTGATCTAGGAGAAAAGGGAGAAAAGGTGACCTCTCCATCCCAGCATGTACCTGTTTGATT  
 CTCTCTCTGCTGTCTGCTTTGCTGTTACGCTTGTGTGATTCCATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC234647 representing NM\_001256074  
Red=Cloning site Green=Tags(s)

```

MLLKKHAGKGGGREPRSEDPTPAEQHCARTMPPCAVLAALLSVVAVVSCLYLGVKTNDLQARIAALESAK
GAPSIHLLPDTLDHLKTMVQEKVERLLAQKSYEHMAKIRIAREAPSECNCPAGPPGKRGRGRRGESGPP
GQPGPQGGPPGKGDKEQDQGGPRGLPGFPTVAALHSNQILTVKGDQGGAGPPGPPGPRGPPGDTGK
DGPRGMPGVPEPGKPGEQGLMGPLGPPGQKGSIGAPGIPGMNGQKGEPLPGAVGQNGIPGPKGEPGEQ
GEKGDAGENGPKGDTGEKGDPGSSAAGIKGEPGESRPGQKGEPLPGLPGLPGIKGEPGFIGPQGEPL
PGLPGTKGERGEAGPPGRGERGEPGAPGPKGDRGEKGDGAQGGPRGPPGQKGDQGATEIIDYNGNLHEAL
QGPPGPPGQGLQGPKGEQSGIPGMDGEQGLKGSKGMGDPGMDTGEKGGIGLPLPGANGMKGEKGDG
GMPGPPGQSIIGPPGPPGPHGPPGPMGPHGLPGPKGEPGLNGVKLKGEPGQKGDGRPLGLPGASGLDGG
PGSRGTDGPMGPHGAPGPKGERGEKGMGEPGPRGPYGLPGFPGRGEKGDLEKGEKVTSPSQHVPLI
LLLLSALLFSLCDSI
    
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001256074

**ORF Size:** 1935 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001256074.2](#)

**RefSeq Size:** 2507 bp

**RefSeq ORF:** 1938 bp

**Locus ID:** 84570

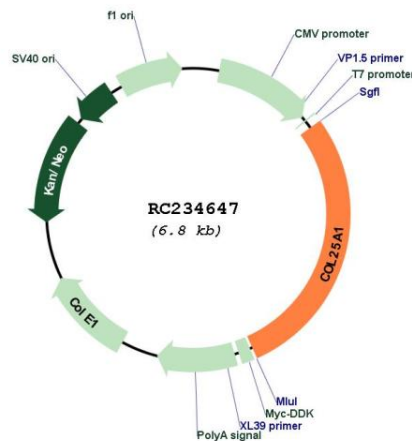
**Cytogenetics:** 4q25

**Protein Families:** Transmembrane

**MW:** 63.8 kDa

**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]

## Product images:



Circular map for RC234647