

Product datasheet for **RG234647**

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:	TurboGFP
Symbol:	CLACP
Synonyms:	AMY; CFEOM5; CLAC; CLAC-P; CLACP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234647 representing NM_001256074
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCTGAAGAAGCACGCAGGAAAGGAGGGGGCCGGAGCCAGATCCGAGGACCCGACCCCTGCCG
 AACAGCATTGTGCCCGGACCATGCCCCCTGTGCCGTCTGGCGGCCCTCCTGTCAAGTGGTGGCCGTGGT
 GTCTTGCTGTACCTGGGTGTGAAAACCAACGACCTCCAGGCGAGGATCGCCGCTCTCGAATCCGCCAAA
 GGGGCCCTTCCATTCATCTGCTGCCTGATACCCTGGATCACCTCAAGACTATGGTGCAAGAGAAAGTGG
 AGCGACTTCTGGCTCAGAAATCCTATGAACATATGGCTAAAATAAGAATCGCAAGAGAAGCACCTTCAGA
 ATGTAAGTCCCAGCAGGCCCTCCAGGAAACGAGGTAAGAGAGGCCGAAGAGGAGAATCTGGTCTCTCT
 GGACAGCTGGTCTCAGGGCCCTCTGGTCCAAAAGGCGATAAGGGAGAACAAGGTGATCAGGGACCTA
 GGGCCTGCCAGGCTTCCCACAGTTGCTGCCCTGCACAGTAATCAGATCCTCACCGTCAAGGGTGACCA
 AGGACAGGCAGGGCCTCCAGGACCCCTGGCCCTCCAGGCCAAGAGGGCCACCTGGGGACACAGGGAAA
 GATGGCCCCCGTGAATGCCAGGAGTACCCGGTGAACCAGGAAAGCCAGGAGAACAAGGCTTGATGGGTC
 CTCTAGGGCCTCCGGGACAAAAGGGTTCTATTGGAGCACCTGGAATTCAGGGATGAATGGGCAAAAAGGG
 TGAGCCCGGGTTGCCTGGAGCAGTAGGACAGAATGGAATACCAGGACCTAAGGGAGAACCTGGAGAACA
 GGTGAAAAGGGAGACGCTGGAGAGAACGGCCCCAAGGGTGACACAGGCGAAAAGGGTGACCTGGATCAT
 CTGCTGCAGGAATTAAGGGAGAACCTGGGGAATCTGGTCCAGGGCAAAAAGGGTGAACCAGGGCTTCC
 TGGGCTTCTGGACTTCCGGGATAAAGGGAGAACCAGGTTTCATTGGTCTCAAGGAGAACCAGGCTTA
 CCAGGTTTACCAGGAACAAAAGGTGAACGGGGGAAGCAGGGCCTCCTGGAAGAGGTGAGCGAGGGGAAC
 CTGGAGCCCGGACCAAAAGGGGATCGTGGAGAAAAAGGGGACTCTGGAGCTCAGGACCAAGGGGTCC
 ACCTGGTCAAAAAGGGGATCAAGGAGCCACTGAGATCATAGACTACAACGGCAACCTCCACGAAGCCTTA
 CAGGGTCCCCCTGGACCTCCTGGACCTCAAGGACTACAAGGGCCAAAGGGAGAGCAGGGATCTCCAGGAA
 TCCCAGGAATGGATGGAGAGCAGGGACTCAAAGGCTCAAAGGGAGACATGGGGGACCCAGGTATGACAGG
 TGAAAAAGGAGGAATTGGACTTCTGGATTACCGGGAGCCAATGGAATGAAAGGAGAAAAAGGAGATTCT
 GGAATGCCGGGTCCACAGGGTCTTCTATCATAGGCCACCAGGCCACCAGGTCCCATGGCCACCTG
 GCCCATGGGACCTCATGGACTTCTGGACCAAGGGTGAACCAGGGTAAATGGTGTAAAGGATTGAA
 GGGTGAACCAGGTCAAAGGGTGACAGAGGACCCCTTGGTCTTCCAGGAGCATCTGGCTTAGACGGAAG
 CCAGGATCCCGGGTACAGATGGTCTATGGGACCCATGGCCCTGCAGGTCCAAAGGAGAAAAGAGGTG
 AAAAGGAGCTATGGGAGAGCCTGGACCAAGAGGGCCCTATGGGCTGCCTGGCTTCCCTGGTCCACGGGG
 TGAGAAGGGTGTCTAGGAGAAAAGGGAGAAAAGGTGACCTCTCCATCCCAGCATGTACCTTGTGGTATT
 CTCTCTCTGCTGTCTGCTTTGCTGTTACGCTTGTGTGATTCCATT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234647 representing NM_001256074
 Red=Cloning site Green=Tags(s)

MLLKKHAGKGGGREPSEDPTPAEQHCARTMPPCAVLAALLSVVAVVSVCLYLGVKTNDLQARIAALES
 GAPSIHLLPDTLDHLKTMVQEKVERLLAQKSYEHMAKIRIAREAPSECNCPAGPPGKRGKRGRREGSGPP
 GQPGPQPPGPKGDKGEQDQGPRGLPGFPTVAALHSNQILTVKGDQGGAGPPGPPGPPGPRGPPGDTGK
 DGPRGMPGVPGEKPGEQGLMGPLGPPGQKSGIGAPGIPGMNGQKGEPLPGAVGQNGIPGPKGEPGEQ
 GEKGDAGENGPKGDTGEKDPGSSAAGIKGEPGESGRPGQKGEPLPGLPGLPGIKGEPGFIGPQGEPL
 PGLPGTKGERGEAGPPGRGERGEPGAPGPKGDRGEKGDGAQGGPRGPPGQKGDQGATEIIDYNGNLHEAL
 QGPPGPPGQGLQGPKGEQSGIPGMDGEQGLKGSKGMGDPGMDGTEKGGIGLPGLPANGMKGEKGD
 GMPGPPGQPSIIGPPGPPGPHGPPGPMGPHGLPGPKGEPGLNGVKGLKGEQKGDGRPLGLPGASGLD
 PGSRGTGPMGPHGAPGPKGERGEKGMGEPGPRGPYGLPGFPGRGEKGDGKGEKVTSPSQHVPLI
 LLLL SALLFSLCDSI

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



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

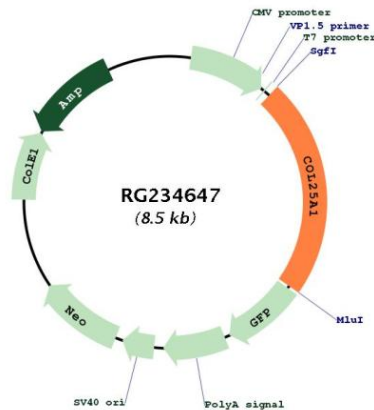
Cytogenetics: 4q25

Protein Families:

Transmembrane

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 RG234647