

Product datasheet for **RG217472**

CLACP (COL25A1) (NM_198721) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLACP (COL25A1) (NM_198721) 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:

>RG217472 representing NM_198721
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGCTGAAGAAGCACGCAGGAAAGGAGGGGGCCGGGAGCCAGATCCGAGGACCCGACCCCTGCCG
AACAGCATTGTGCCCGGACCATGCCCCGTGTGCCGTCTGGCGGCCCTCCTGTCAAGTGGTGGCCGTGGT
GTCTTGCTGTACCTGGGTGTGAAAACCAACGACCTCCAGGCGAGGATCGCCGCTCTCGAATCCGCCAAA
GGGGCCCTTCCATTCATCTGCTGCCTGATACCCTGGATCACCTCAAGACTATGGTGCAAGAGAAAGTGG
AGCGACTTCTGGCTCAGAAATCCATGAACATATGGCTAAAATAAGAATCGCAAGAGAAGCACCTTCAGA
ATGTAAGTCCCAGCAGGCCCTCCAGGGAACGAGGTAAGAGAGGCCGAAGAGGAGAATCTGGTCTCTCT
GGACAGCTGGTCTCAGGGCCCTCTGGTCCAAAAGGCGATAAGGGAGAACAAGGTGATCAGGGACCTA
GGATGGTGTTCCTAAAATCAATCATGGTTCCTCTCTGCTGATCAGCAGCTCATTAAACGCCGCTGAT
TAAGGGTGACCAAGGACAGGCAGGGCCTCCAGGACCCCTGGCCCTCCAGGCCAAGAGGGCCACCTGGG
GACACAGGGAAAGATGGCCCCGTGGAATGCCAGGAGTACCCGGTGAACCAAGGAAAGCCAGGAGAACAAG
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TGGGCAAAAGGGTGGCCCGGGTTCCTGGAGCAGTAGGACAGAAATGGAATACCAGGACCTAAGGGAGAA
CCTGGAGAACAAGGTGAAAAGGGAGACGCTGGAGAGAACGGCCCAAGGGTGACACAGGCAGGAAAGGGTG
ACCCTGGATCATCTGCTGCAGGAATTAAGGGAGAACCTGGGGAATCTGGTCCAGGGCAAAAGGGTGA
ACCAGGGCTTCTGGCTTCTGGACTTCCGGGATAAAGGGAGAACCAGGTTTCATTGGTCTCAAGGA
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AGCGAGGGGAACCTGGAGCCCCGACCAAGGGGAAACAAGGTGAATCAGGAAGTACAGGACCAAGGGG
GTCAAAGGGGATCGTGGAGAAAAAGGGACTCTGGAGCTCAGGGACCAAGGGGTCCACCTGGTCAAAAA
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CCTTAAGTGTACGGGTCCCCTGGACCTCCTGGACCTCAAGGACTACAAGGGCAAAAGGGAGAGCAGGG
ATCTCCAGGAATCCCAGGAATGGATGGAGAGCAGGGACTCAAAGGCTCAAAGGGAGACATGGGGACCCA
GGTATGACAGGTGAAAAGGAGGAATTGGACTTCTGGATTACCGGGAGCCAATGGAATGAAAGGAGAAA
AAGGAGATTCTGGAATGCCGGTCCACAGGTCTTCTATCATAGGCCACCAGGCCACCAGGTCCCCA
TGGCCACCTGGCCCATGGGACCTCATGGACTCCTGGACCAAGGGTACAGATGGTCTATGGGACCC
CATGGCCCTGCAGTCCCAAAGGAGAAAGAGGTGAAAAGGAGCTATGGGAGAGCCTGGACCAAGAGGGC
CCTATGGCTGCCTGGGAAAGATGGAGAGCCTGGTCTTGATGGCTTCCCTGGTCCACGGGTGAGAGGG
TGATCTAGGAGAAAAGGGAGAAAAGGGATTCCGTGGCGTTAAGGGGGAAAAGGGGAGCCAGGCCAGCCT
GGCCTGGATGGGTGGATGCCCTTGCCAAATGGGGCCAGATGGCTTACCCATGCCTGGCTGTTGGCAAA
AG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG217472 representing NM_198721
Red=Cloning site Green=Tags(s)

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MLLKKHAGKGGGREPRSEDPTPAEQHCARTMPPCAVLAALLSVVAVVSCLYLGVKTNDLQARIAALESAK
GAPSIHLLPDTLDHLKTMVQEKVERLLAQKSYEHMAKIRIAREAPSECNCPAGPPGKRGKRGRREGSGPP
GQPGPQGPPEGKGDKEQDQGPRMVFPIHNGFLSADQQLIKRRLIKGDQAGAPPGPPGPRGPPG
DTGKDGPGRMPGVPGEKPGEQGLMGPLGPPGQKGSIGAPGIPGMNGQKGEPLPGAVGQNGIPGPKGE
PGEQGEKGDAGENPKGDTGEKDPGSSAAGIKGEPGESGRPGQKGEPLPGLPGLPGIKGEPGFIQPGQ
EPGLPGLPGTKGERGEAGPPGRGERGEPGAPGPKGQGESGTRGPKGSKGDRGEKGDGSAQGRGPPGQK
GDQGATEIIDYNGNLHEALQRITTLTVTGGPPGPPGQGLQGPKEQGSPIGPMGDEQGLKGSKGMGDP
GMTGEKGGIPLPGLPGANGMKGEKGDGMPGPPGQPSIIIGPPGPPGPHGPPGMPHGLPGPKGTDGMPMP
HGPAGPKGERGEKGMGEPGPRGPYGLPGKDGEPGLDGFPGPRGEKGDLEKGEKGFGRVKGKGEKGEQGP
GLDGLDAPCQLGPDGLPMPGCWQK
    
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_198721

ORF Size: 1962 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_198721.4](#)

RefSeq Size: 2607 bp

RefSeq ORF: 1965 bp

Locus ID: 84570

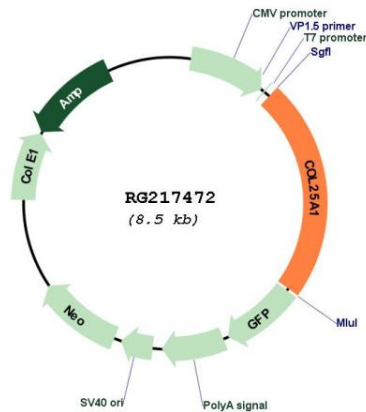
UniProt ID: [Q9BXS0](#)

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]

Product images:



Circular map for RG217472