

Product datasheet for **RC217472**

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:	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:**

>RC217472 representing NM_198721
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGCTGCTGAAGAAGCACGCAGGAAAGGAGGGGCGGGAGCCAGATCCGAGGACCCGACCCCTGCCG
 AACAGCATTGTGCCCGACCATGCCCCGTGTGCCGTCTGGCGGCCCTCCTGTCAGTGGTGGCCGTGGT
 GTCTTGCTGTACCTGGGTGTGAAAACCAACGACCTCCAGGCGAGGATCGCCGCTCTCGAATCCGCCAAA
 GGGGCCCTTCCATTCATCTGCTGCCTGATACCTGGATCACCTCAAGACTATGGTGCAAGAGAAAGTGG
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 AG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >RC217472 representing NM_198721
 Red=Cloning site Green=Tags(s)

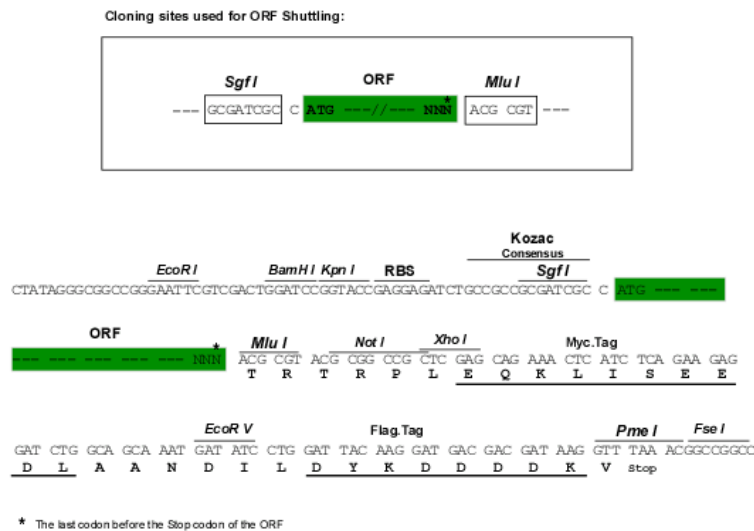
MLLKKHAGKGGGREPSDEPTPAEQHCARTMPPCAVLAALLSVVAVVSCLYLGVKTNDLQARIAALES
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 EPGLPGLPGTKGERGEAGPPGRGERGEPAGPKGKQGESGTRGPKGSKGDRGEKGDGAQGRGPPGQK
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 GLDGLDAPCQLGPDGLPMPGCWQK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6207_f08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_198721

ORF Size: 1962 bp

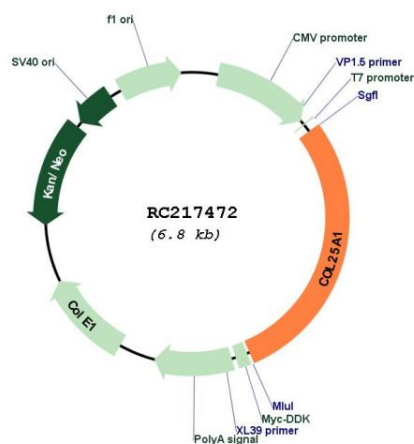
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

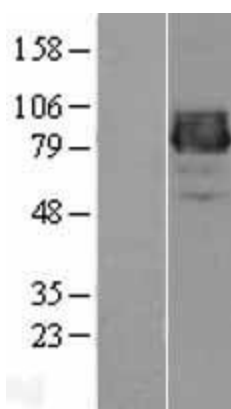
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_198721.4
RefSeq Size:	2607 bp
RefSeq ORF:	1965 bp
Locus ID:	84570
UniProt ID:	Q9BXS0
Cytogenetics:	4q25
Protein Families:	Transmembrane
MW:	64.6 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 RC217472



Western blot validation of overexpression lysate (Cat# [LY404789]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217472 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).