

## Product datasheet for **RG222555**

### CLACP (COL25A1) (NM\_032518) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CLACP (COL25A1) (NM_032518) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	COL25A1
Synonyms:	AMY; CFEOM5; CLAC; CLAC-P; CLACP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG222555 representing NM\_032518  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTGCTGAAGAAGCACGCAGGAAAGGAGGGGGCCGGGAGCCAGATCCGAGGACCCGACCCCTGCCG  
 AACAGCATTGTGCCCGGACCATGCCCCCGTGTGCCGCTCCTGGCGGCCCTCCTGTCAAGTGGTGGCCGTGGT  
 GTCTTGCCTGTACCTGGGTGTGAAAACCAACGACCTCCAGGCGAGGATCGCCGCTCTCGAATCCGCCAAA  
 GGGGCCCTTCCATTCATCTGCTGCCTGATACCCTGGATCACCTCAAGACTATGGTGCAAGAGAAAGTGG  
 AGCGACTTCTGGCTCAGAAATCCTATGAACATATGGCTAAAATAAGAATCGCAAGAGAAGCACCTTCAGA  
 ATGTAAGTCCCAGCAGGCCCTCCAGGGAACGAGGTAAGAGAGGCCGAAGAGGAGAATCTGGTCTCCT  
 GGACAGCTGGTCTCAGGGCCCTCCTGGTCCAAAAGGCGATAAGGGAGAACAAGGTGATCAGGGACCTA  
 GGATGGTGTTCCTAAAATCAATCATGGGTTTCTCTCTGCTGATCAGCAGCTCATTAAACGCCGCTGAT  
 TAAGGGTGACCAAGGACAGGCAGGGCCTCCAGGACCCCTGGCCCTCAGGCCAAAGAGGGCCACCTGGG  
 GACACAGGGAAAGATGGCCCCCGTGAATGCCAGGAGTACCCGGTGAACCAAGGAAAGCCAGGAGAACAAG  
 GCTTGATGGGTCTCTAGGGCCTCCGGGACAAAAGGGTCTATTGGAGCACCTGGAATCCAGGGATGAA  
 TGGGCAAAAGGGTGAAGCCGGGTTGCTGGAGCAGTAGGACAGAAATGGAATACCAGGACCTAAGGGAGAA  
 CCTGGAGAACAAGGTGAAAAGGGAGACGCTGGAGAGAACGGCCCAAGGGTGACACAGGCAGGAAAGGGTG  
 ACCCTGGATCATCTGCTGCAGGAATTAAGGAGAACCTGGGGAATCTGGTCCAGGGCAAAAGGGTGA  
 ACCAGGGCTTCTGGCTTCTGGACTTCCGGGATAAAGGGAGAACCAGGTTTCATTGGTCTCAAGGA  
 GAACAGGCTTACCAGGTTTACCAGGAACAAGGTGAACGGGGGAAGCAGGGCCTCCTGGAAGAGGTG  
 AGCGAGGGGAACCTGGACCCCGGACCAAGGGGAAACAAGGTGAATCAGGAAGTACAGGCCCAAGGG  
 GTCAAAGGGGATCGTGGAGAAAAAGGGACTCTGGAGCTCAGGGACCAAGGGGTCACCTGGTCAAAAA  
 GGGGATCAAGGAGCCACTGAGATCATAGACTACAACGGCAACCTCCACGAAGCCTTACAGAGGATTACCA  
 CCTTAACTGTACGGGTCCCCTGGACCTCCTGGACCTCAAGGACTACAAGGGCCAAAGGGAGAGCAGGG  
 ATCTCCAGGAATCCCAGGAATGGATGGAGAGCAGGGACTCAAAGGCTCAAAGGGAGACATGGGGACCCA  
 GGTATGACAGGTGAAAAGGAGGAATGGACTTCTGGATTACCGGGAGCCAATGGAATGAAAGGAGAAA  
 AAGGAGATTCTGGAATGCCGGTCCACAGGGTCTTCTATCATAGGCCACCAGGCCACCAGGTCCCCA  
 TGGCCACCTGGCCCATGGGACCTCATGGACTCCTGGACCAAGGGTACAGATGGTCTATGGGACCC  
 CATGGCCCTGCAGTCCAAAGGAGAAAGAGGTGAAAAGGAGCTATGGGAGAGCCTGGACCAAGAGGGC  
 CCTATGGGCTGCCTGGGAAAGATGGAGAGCCTGGTCTTGTATGGCTTCCCTGGTCCACGGGTGAGAAAGG  
 TGATCTAGGAGAAAAGGGAGAAAAGGTGACCTTCCATCCAGCATGTACCTGTTTGATTCTTCTCCTG  
 CTGTCTGCTTGTGTTGAGCTTGTGTGATTCCATT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG222555 representing NM\_032518  
 Red=Cloning site Green=Tags(s)

MLLKKHAGKGGGREPSEDPTPAEQHCARTMPPCAVLAALLSVVAVVSVCLYLGVKTNDLQARIAALES  
 GAPSIHLLPDTLDHLKTMVQEKVERLLAQKSYEHMAKIRIAREAPSECNCPAGPPGKRGKRGRRESGPP  
 GQPGPQPPGPKGDKGEQDQGPRMVFPIINHFLSADQQLIKRRLIKGDQAGPPGPPGPPGPRGPPG  
 DTGKDGPRGMPGVPGEKPKPEQGLMGPLGPPGQKGSIGAPGIPGMNGQKGEPLPGAVGQNGIPGPKGE  
 PGEQGEKGDAGENPKGDTGEKDPGSSAAGIKGEPGESGRPGQKGEPLPGLPGLPIKGEPPGIGPQG  
 EPLPGLPGTKGERGEAGPPGRGERGEPAGPKGKQGESGTRGPKGSKGDRGEKGDGSAQGPGRPPGQK  
 GDQGATEIIDYNGNLHEALQRITTLTVTGGPPGPPQGLQGPKEQSGPIPGMDGEQGLKGSKGMGDP  
 GMTGEKGGIGLPLPGANGMKGEKGDGMPGPPGQPSIIIGPPGPPGPHGPPGPMGPHGLPGPKGTDGMPG  
 HGPAGPKGERGEKGMGEPGPRGPYGLPGKDGEPGLDGFPGPRGEKGDLEKGEKVTSPSQHVPCILL  
 LSALLFSLCDSI

**TRTRPLE** – GFP Tag – V



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_032518.3</a>
<b>RefSeq Size:</b>	2681 bp
<b>RefSeq ORF:</b>	1929 bp
<b>Locus ID:</b>	84570
<b>UniProt ID:</b>	<a href="#">Q9BXS0</a>
<b>Cytogenetics:</b>	4q25
<b>Domains:</b>	Collagen
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	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]