

Product datasheet for **SC328263**

Clathrin light chain (CLTA) (NM_001184761) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clathrin light chain (CLTA) (NM_001184761) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLTA
Synonyms:	LCA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001184761, the custom clone sequence may differ by one or more nucleotides ATGGCTGAGCTGGATCCGTTTCGGCGCCCTGCCGGCGCCCTGGCGGTCCCGCGCTGGGG AACGGAGTGGCCGCGCCGGCGAAGAAGACCCGGCTGCGCCCTTCTGGCGCAGCAAGAG AGCGAGATTGCGGGCATCGAGAACGACGAGGCCTTCGCCATCCTGGACGGCGCGCCCC GGGCCCCAGCCGACGGCGAGCCCGGGGGTCCGGATGCTGTTGATGGAGTAATGAAT GGTGAATACTACCAGGAAAGTAATGGTCCAACAGACAGTTATGCAGCTATTTACAAGTG GATCGATTGCAGTCAGAGCCTGAAAGTATCCGTAATGGAGAGAAGAACAATGGAACGC TTGGAAGCCCTTGATGCCAATTCTCGGAAGCAAGAAGCAGAGTGGAAAAGAAAAGCAATA AAGGAGCTAGAAGAATGGTATGCAAGACAGGACGAGCAGCTACAGAAAACAAAAGCAAAC AACAGCAGAAGAAGCCTTTGTAATGA
Restriction Sites:	Please inquire
ACCN:	NM_001184761
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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).



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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_001184761.1](#), [NP_001171690.1](#)

RefSeq Size: 1151 bp

RefSeq ORF: 507 bp

Locus ID: 1211

Cytogenetics: 9p13.3

Protein Pathways: Endocytosis, Huntington's disease, Lysosome

Gene Summary: Clathrin is a large, soluble protein composed of heavy and light chains. It functions as the main structural component of the lattice-type cytoplasmic face of coated pits and vesicles which entrap specific macromolecules during receptor-mediated endocytosis. This gene encodes one of two clathrin light chain proteins which are believed to function as regulatory elements. Alternative splicing results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 8 and 12. [provided by RefSeq, May 2010]
Transcript Variant: This variant (5) lacks two alternate in-frame exons and uses an alternate splice site in the 3' terminal exon that causes a translational frameshift compared to variant 2. These differences result in a shorter protein (isoform e), compared to isoform b.