

## Product datasheet for **SC115717**

### Clathrin light chain (CLTA) (NM\_007096) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Clathrin light chain (CLTA) (NM_007096) Human Untagged Clone
Tag:	Tag Free
Symbol:	Clathrin light chain
Synonyms:	LCA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115717 sequence for NM_007096 edited (data generated by NextGen Sequencing)

```
ATGGCTGAGCTGGATCCGTTTCGGCGCCCTGCCGGCGCCCTGGCGGTCCC GCGCTGGG  
AACGGAGTGGCCGCGCCGGCGAAGAAGACCCGCTGCGCCTTCTTGGCGCAGCAAGAG  
AGCGAGATTGCGGGCATCGAGAACGACGAGGCCTTCGCCATCCTGGACGGCGCGCCCC  
GGGCCCCAGCCGACGGCGAGCCCGGGGGTCCGGATGCTGTTGATGGAGTAATGAAT  
GGTGAATACTACCAGGAAAGTAATGGTCCAACAGACAGTTATGCAGCTATTTACAAGTG  
GATCGATTGCAGTCAGAGCCTGAAAGTATCCGTAATGGAGAGAAGAACAATGGAACGC  
TTGGAAGCCCTTGATGCCAATTCTCGGAAGCAAGAAGCAGAGTGGAAAGAAAAGCAATA  
AAGGAGCTAGAAGAATGGTATGCAAGACAGGACGAGCAGCTACAGAAAACAAAAGCAAAC  
AACAGGGTGGCAGATGAAGCTTTCTACAACAACCCTTCGCTGACGTGATTGGTTATGTC  
ACAACATAAACCATCCTTGCTACAGCCTAGAACAGGCAGCAGAAGAAGCCTTTGTAAAT  
GACATTGACGAGTCGTCCCCAGGCACTGAGTGGGAACGGGTGGCCCGGCTGTGTGACTTT  
AACCCCAAGTCTAGCAAGCAGGCCAAAGATGTCTCCCGCATGCGCTCAGTCTCATCTCC  
CTCAAGCAGGCCCGCTGGTGCACTGA
```

Clone variation with respect to NM\_007096.3



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_007096 unedited  
 GGTGTTCGAATTTGTATACGACTCCTATAGGCGGCCCGCAATTCGCACGAGGCCACAGC  
 GGTGGCTGCCGGCGTGGTGTGGTGGGTCGGTTGGTTTTGTCTCACCGTTGGTGTCCG  
 TGCCGTTCAAGTTGCCGCCATGGCTGAGCTGGATCCGTTCCGGCGCCCTGCCGGCGCCCC  
 TGGCGGTCCCAGCTGGGAACGGAGTGGCCGGCGCCGGCGAAGAAGACCCGGCTGCGGC  
 CTTCTTGGCGCAGCAAGAGAGCGAGATTGCGGGCATCGAGAACGACGAGGCCTTCGCCAT  
 CCTGGACGGCGGCCCGCCCGGGCCAGCCGACGGCGAGCCCGGGGGGTCCGGATGC  
 TGTTGATGGAGTAATGAATGGTGAATACTACCAGGAAAGTAATGGTCCAACAGACAGTTA  
 TGCAGCTATTTCACAAGTGGATCGATTGCAAGTCAAGCCTGAAAGTATCCGTAATGGAG  
 AGAAGAACAATGGAACGCTTGAAGCCCTTGATGCCAATTCTCGGAAGCAAGAAGCAGA  
 GTGGAAAGAAAAGGCAATAAAGGAGCTAGAAGAATGGTATGCAAGACAGGACGAGCAGCT  
 ACAGAAAAACAACAAACAGGGTGGCAGATGAAGCTTTCTACAAACAACCTTCGC  
 TGACGTGATTGGTTATGTCACAAACATAAACCATCCTTGTACAGCCTAGAACAGGCAGC  
 AGAAGAAGCCTTTGTAATGACATTGACGAGTCGTCCCGAGGACTGAGTGGGAACCGGG  
 TGGCCCCGGCTGTGTACTTTAACCCAGTCTAGCCAGCAGGCCAAAGAAGTCTCCCGCA  
 TGCCTCAGTCCTCATCTCCTTACGACGCCCGCTGGTCCCTGAAGACCACCTGT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_007096 unedited  
 TGGACCGCGGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
 TTTTTTACAGTTTGAACAGAAATTTATTCTCAAATAATGCACAAAAGCACAGTTGA  
 GGCTACTCTTGGGAAGCTTCCCTCCCTTCCTTTTCTCCTCCTCCTTTTTTGAATGC  
 CAGGGAAAACACAGTTGAAGGAAGGAAACATGCAATCACAAACAATGAACAACCTAAAG  
 ACAAAAAGGTTTGGTCCAAAAGAACTCAACATAATTAATCCAATGACTGGGAAAAGCTTC  
 ACTGAGTAGGATTAATATTGCAGATGTAGTGTTCACAGGGGGCTTTCAGTGCAC  
 CAACGGGGCTGCTTGAAGGAAATGAGGACTGAGCGCATGCGGGAAACATCTTTGGCCTG  
 CTTGCTAAACTTGGGGTTAAAGTACACAGCCGGGCCACCCGTTCCCACTCAGTGCCTGG  
 GGACGACTCGTCAATGTCATTTACAAAGGCTTCTTCTGCTGCCTGTTCTAGGCTGTAGCA  
 AGGATGGTTTATGTTGTGACATAACCAATCACGTGAGCGAAGGGTTGTTGTAAAAAGC  
 TTCATCTGCCACCCTGTGTTTGTCTTTTGTCTGTAGCTGCTCGTCTGTCTTGACATA  
 CCATTCTTAGCTCCTTTATTGCCTTTTCTTTCCACTGCTTCTTGTCTCCGAGAATT  
 GGCATCAAGGGCTTCCAAGCGTTCCATTTGNTCTTCTCCTCATTACGGATACTTTCAGG  
 CTCTGACTGCAATCGATCCACTTGTGAAATAGCTGCATAACTGCCTGTTGGGACATTACT  
 TTNCTGGNAGTATTACCAATTACTNCAATNAAAGCATTTCGGACCCCCGNNNGNTCCC  
 GTGCCGTGGGGCCCGGGCCGCN

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_007096

**Insert Size:**

1140 bp

**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).

**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).

<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_007096.1</a> , <a href="#">NP_009027.1</a>
<b>RefSeq Size:</b>	1105 bp
<b>RefSeq ORF:</b>	747 bp
<b>Locus ID:</b>	1211
<b>UniProt ID:</b>	<a href="#">P09496</a>
<b>Cytogenetics:</b>	9p13.3
<b>Domains:</b>	Clathrin_lg_ch
<b>Protein Pathways:</b>	Endocytosis, Huntington's disease, Lysosome
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) represents the longest transcript variant and encodes the longest isoform (b).</p>