

## Product datasheet for **SC109077**

### Clathrin light chain (CLTB) (NM\_007097) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Clathrin light chain (CLTB) (NM_007097) Human Untagged Clone
Tag:	Tag Free
Symbol:	Clathrin light chain
Synonyms:	LCB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC109077 sequence for NM_007097 edited (data generated by NextGen Sequencing)

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ATGGCTGATGACTTTGGCTTCTTCTCGTCGTCGGAGAGCGGTGCCCGGAGGCGGCGGAG
GAGGACCCGGCGGCCCTTCTGGCCCAGCAGGAGAGCGAGATTGCAGGCATAGAGAAC
GACGAGGGCTTCGGGGCACCTGCCGGCAGCCATGCGGCCCGCGCAGCCGGGCCACG
AGTGGGGCTGGTTCTGAGGACATGGGGACCACAGTCAATGGAGATGTGTTTCAGGAGGCC
AACGGTCCTGCTGATGGCTACGCAGCCATTGCCAGGCTGACAGGCTGACCCAGGAGCCT
GAGAGCATCCGCAAGTGGCGAGAGGAGCAGAGGAAACGGCTGCAAGAGCTGGATGCTGCA
TCTAAGGTCACGGAACAGGAATGGCGGGAGAAGGCCAAGAAGGACCTGGAGGAGTGAAC
CAGCGCCAGAGTGAACAAGTAGAGAAGAACAAGATCAACAACCGGATCGCTGACAAAGCA
TTCTACCAGCAGCCAGATGCTGATATCATCGGCTACGTGGCATCCGAGGAGGCTTTCGTG
AAGGAATCCAAGGAGGAGACCCAGGCACAGAGTGGGAGAAGGTGGCCAGCTATGTGAC
TTCAACCCCAAGAGCAGCAAGCAGTGCAAAGATGTGTCCCGCCTGCGCTCGGTGCTCATG
TCCTGAAGCAGACGCCACTGTCCCGCTAG

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Clone variation with respect to NM\_007097.2



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_007097 unedited</p> <pre>GCACTAATTTGTAATACGAACTCACTATAGGCGGCCGNAATCGGCACGAGGGTCCGCG CCAAGCCCGTCCCCGCCGACGCCGGCTCCCCGGGCTCGGGTGACAGCGTCGCGGCCGCC GGACGCAGCGCGGGGCAGGCGCGGGCAGAGCCGAGCGCAGCGGAGGCTCCGGCGGAGGCG CGGGGAAAATGGCTGATGACTTTGGCTTCTTCGTCGTCGGAGAGCGGTGCCCGGAGG CGGCGGAGGAGGACCCGGCGGCCCTTCTGGCCAGCAGGAGAGCGAGATTGCAGGCA TAGAGAACGACGAGGGCTTCGGGGCACCTGCCGGCAGCCATGCGGCCCCCGCGCAGCCGG GCCCCACGAGTGGGGCTGGTTCTGAGGACATGGGGACCACAGTCAATGGAGATGTGTTTC AGGAGGCCAACGGTCTGCTGATGGCTACGCAGCCATTGCCAGGCTGACAGGCTGACCC AGGAGCCTGAGAGCATCCGCAAGTGGCGAGAGGAGCAGAGGAAACGGCTGCAAGAGCTGG ATGCTGCATCTAAGGTCACGGAACAGGAATGGCGGGAGAAGGCCAAGAAGGACCTGGAGG AGTGAACACGCGCCAGAGTGAACAAGTAGAGAAGAACAAGATCAACAACCGGATCGCTG ACAAAGCATTCTACCAGCAGCCAGATGCTGATATCATCGGCTACGTGGCATCCGAGGAGG CTTTCGTGAAGGAATCCAAGGAGGAGACCCAGGCACAGAGTGGGAGAAAGTGGCCAGC TATGTGACTTCAACCCCAAGAGCAGCAAGCAGTCAAAGATGTGTCCCGCTGCGCTCGG TGCTCATGTCCCTGAAGCAGACGCCACTGTTCCGCTAGGTGCCTGCTANGTGCATGGCCA CAGAGCATGGGCTGGCCTGGGCACAGNAGAGCAACTGCCTTGGTCGCGGTGAAACTCC</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_007097 unedited</p> <pre>GCGGCACGCAATCTANAATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAA ACAACACACCCTTAAAGCAAAAAAAAAAATACTCAGGAGGGACAGTCACATTTGATTAA ACTGAAAGGAGGGCTGAGGGCTGGACCAAGGGCCAGAAGGGACCAAGGCGTGACGGGG TGAGGGCCCCCTCCACCCCTGAAAATGGGGAGGAGTAAAATAGGCTGGGGTAGCAG CTGCTGCAAGTCTCCACCCGACCAAGCAGTTGTTCTCTGTGCCAGGCCAGCCCA TGCTTTGGGGCCATGCACCTAGCAGGCACCTAGCGGGACAGGGGCGTTTGTTCAGGGAC ATGACCACCGAGCGCAGGCGGAACACATTTTTGCACTGCTTGTGCTCTTGGGGTTGAAG TCACATAGCTGGGCCACCTTCTCCCACTTTGGGCTGGGGTCTCTCCTTGGATTCTTC ACAAAAGCCTCCTCGGATGCCACGTACCCGATGATACACCATCTGGCTGCTGGTAAAAT GCTTTGTGAGCGATCCGGTTGTGGATCTTGTCTTCTCTACTTGTCCACTCTGGCGCTGG TTCCACTCCTCCAGGTCCTTCTTGGCCTTCTCCCGCCATTCTGTTCCTGACCTAAAT GCAGCATCCAGTCTTGAAGCCGTTTCTCTGCTCCTCTCGCCATTTGCGGATGCTCTAA GCCTCTGGGTACCCCTGTCANCCTGGGAATGGCTGCGTACCCATCACAGGACCGTGGGC CTCCTGAAACCATCTCCATTGCTGGGCCCCATGCCNAAAACCCCACTCGTGGGCC GTTGCCCGGGCCCTATGCTTGGCGCAGTCCCCACCCCTGGNGTTTTAGCTGCATTGCG TTCTGTGGCCAGAAAAGGGGCCGCTTCTCCCC</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_007097
<b>Insert Size:</b>	920 bp
<b>OTI Disclaimer:</b>	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).
<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_007097.2</a> , <a href="#">NP_009028.1</a>
<b>RefSeq Size:</b>	1184 bp
<b>RefSeq ORF:</b>	690 bp
<b>Locus ID:</b>	1212
<b>UniProt ID:</b>	<a href="#">P09497</a>
<b>Cytogenetics:</b>	5q35.2
<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. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) encodes the longest isoform (b).</p>