

Product datasheet for SC117104

Clathrin heavy chain (CLTC) (NM_004859) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clathrin heavy chain (CLTC) (NM_004859) Human Untagged Clone
Tag:	Tag Free
Symbol:	Clathrin heavy chain
Synonyms:	CHC; CHC17; CLH-17; CLTCL2; Hc; MRD56
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_004859 edited
 GAATTCGGCAGGAGGGCCCGGGCAGCCACTGCCCGCAGCCCCAGTGCACAGGAGGAGACC
 ATAACCCCGCAGCGCCATGGCCAGATTCTGCCAATTCGTTTTTCAGGAGCATCTCCAG
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_004859 unedited
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3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004859 unedited
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 GAACAGCAATATTTTGTGTTGAATTTCTCTCTTGTACTACTCAGTGATCTAAAACACCAC
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 TGAGAANTGGTAAGACGATGTTTANTACAAAATAGNGACTACAGATCACGCTCATTCAAT
 GCTGTACCAGGCAGCTGTGCTGNCTAACGGGGGGCGGATACATAACAAAGG

Restriction Sites:

NotI-NotI

ACCN:

NM_004859

Insert Size:

6510 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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.

RefSeq:

[NM_004859.2](#), [NP_004850.1](#)

RefSeq Size:	6541 bp
RefSeq ORF:	5028 bp
Locus ID:	1213
UniProt ID:	Q00610
Cytogenetics:	17q23.1
Domains:	Clathrin, Clathrin_propel
Protein Pathways:	Endocytosis, Huntington's disease, Lysosome
Gene Summary:	<p>Clathrin is a major protein component of the cytoplasmic face of intracellular organelles, called coated vesicles and coated pits. These specialized organelles are involved in the intracellular trafficking of receptors and endocytosis of a variety of macromolecules. The basic subunit of the clathrin coat is composed of three heavy chains and three light chains. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the shorter transcript and encodes the shorter protein (isoform 1).</p>