

Product datasheet for **RC240196**

Clathrin heavy chain (CLTC) (NM_001288653) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clathrin heavy chain (CLTC) (NM_001288653) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CLTC
Synonyms:	CHC; CHC17; CLH-17; CLTCL2; Hc; MRD56
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC240196 representing NM_001288653 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCCCAGATTCTGCCAATTCGTTTTTCAGGAGCATCTCCAGCTCCAGAACCTGGGTATCAACCCAGCAA
ACATTGGCTTCAGTACCCTGACTATGGAGTCTGACAAATTCATCTGCATTAGAGAAAAAGTAGGAGAGCA
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A C A C T C C A G A T T G G A T A T T T C T G C T G A G A A A T G T A A T G C G A A T C A G T C C A G A T C A G G G A C A G C A G T T T G C
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Protein Sequence:

>RC240196 representing NM_001288653
 Red=Cloning site Green=Tags(s)

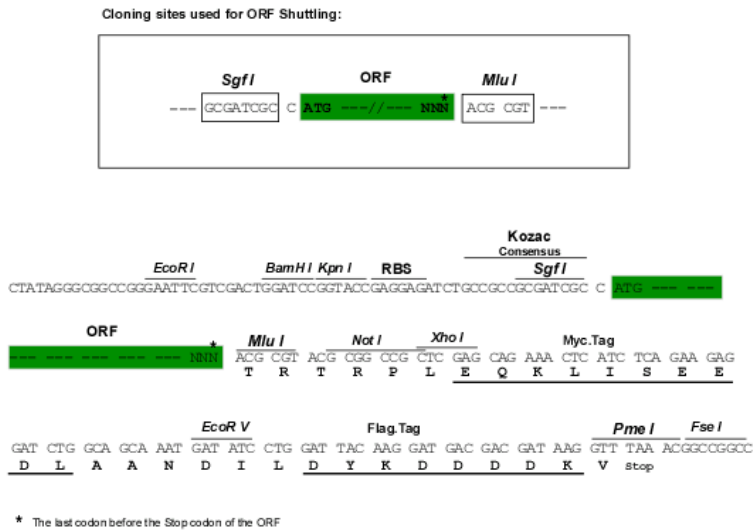
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 SLIELFESFKSFEGLFYFLGSI VNFSDPDVHFYIQAACKTGQI KEVERICRESNCPDPERVKNFLKEA
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 RGQFSTDELVAEVEKRNLKLLLPWLEARIHEGCEEPATHNALAKIYIDSNNNPERFLRENPPYDSRVV
 G KYCEKRDPHLACVAYERGQCDLEL INVCNENSLFKSLSRYL VRRKDPELWGSVLLSNPYRRLIDQVVQ
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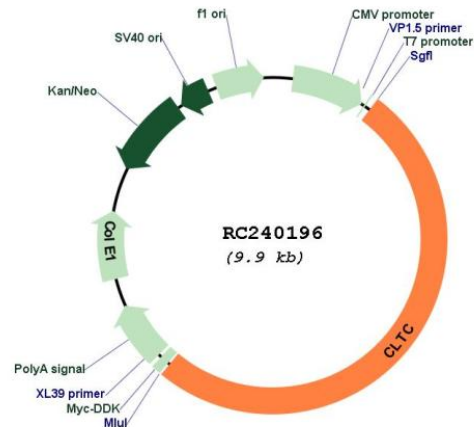
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001288653

ORF Size: 5037 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001288653.1](#), [NP_001275582.1](#)

RefSeq Size: 8587 bp

RefSeq ORF: 5040 bp

Locus ID: 1213

Cytogenetics:	17q23.1
Protein Pathways:	Endocytosis, Huntington's disease, Lysosome
MW:	192.5 kDa
Gene Summary:	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]