

Product datasheet for **RG240196**

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:	TurboGFP
Symbol:	CLTC
Synonyms:	CHC; CHC17; CLH-17; CLTCL2; Hc; MRD56
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG240196 representing NM_001288653. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCCAGATTCTGCCAATTCGTTTTTCAGGAGCATCTCCAGCTCCAGAACCTGGGTATCAACCCAGCA
AACATTGGCTTCAGTACCCTGACTATGGAGTCTGACAAATTCATCTGCATTAGAGAAAAAGTAGGAGAG
CAGGCCAGGTGGTAATCATTGATATGAATGACCCAAGTAATCCAATTCGAAGACCAATTCAGCAGAC
AGGCCATCATGAATCCAGCTAGCAAAGTAATGCACTGAAAGGTATAAAAGAATCTGGGAAAACCTTT
CAGATTTTAAACATTGAAATGAAAAGTAAATGAAGGCTCATACCATGACTGATGATGTCACCTTTTGG
AAATGGATCTCTTGAATACGGTTGCTCTTGTACGGATAATGCAGTTTATCACTGGAGTATGGAAGGA
GAGTCTCAGCCAGTGAAAATGTTTGATCGCCATTCTAGCCTTGCAGGGTCCAGATTATCAATTACCGT
ACAGATGCAAAACAAAAGTGGTTACTTCTGACTGGTATATCTGCACAGCAAAATCGTGTGGTGGGAGCT
ATGCAGCTATATCTGTAGATAGGAAAGTGTCTCAGCCATTGAAGGACATGCAGCTAGCTTTGCACAG
TTAAGATGGAAGGAAATGCAGAAGAAATCAACGTTATTTTGTGTTTGCAGTTCCGGGCAAGCTGGAGGG
AAGTTACATATTATTGAAGTTGGCACACCACCTACAGGGAACAGCCCTTCCAAAGAAGGCAGTGGAT
GTCTTCTTCCCTCAGAAGCACAATAATGATTTTCTGTGCAATGCAGATCAGTAAAAGCATGATGTG
GTGTTCTTGATAACCAAGTATGGTTATATCCACCTCTATGATCTTGAGACTGGTACCTGCATCTACATG
AATAGAATCAGTGGAGAAACAATTTTGTACTGCACCTCATGAAGCCACAGCTGGAATAATTGGAGTA
AACAGAAAGGGACAAGTTCTGTAGTGTGTGGAAGAAGAAAACATAATTCTTACATCAACCAATGTT
CTACAAAATCCTGATTTGGCTCTGAGAATGGCTGTACGTAATAACTTAGCCGGTGTGAAGAACTCTTT
GCCCGAAATTTAATGCTCTTTTGGCCAGGAAATTAAGTCCGAGGCAGCAAAGGTGGCTGCTAATGCA
CCAAAGGGAATTCCTGACTCCAGACACTATCCGTGCGTTCCAGAGTGTCCAGCCAGCCAGGTCAA
ACTTCTCCTCTACTTCAGTACTTTGGTATCCTTTTGGACCAGGGACAGCTCAACAATACGAATCCTTA
GAGCTTTGTAGGCTGTACTTCAGCAAGGGCGAAAACAGCTTTTGGAGAAATGGTAAAAGAAGATAAG
CTGGAATGTTCTGAAGAACTGGGTGATCTTGTGAAATCTGTGGACCCTACATTGGCACTTAGTGTGTAC
CTAAGGGCTAACGTCCTCAATAAAGTCATTGATGCTTTGCAGAAACAGGTCAAGTCCAAAAGATTGTT
```



[View online >](#)

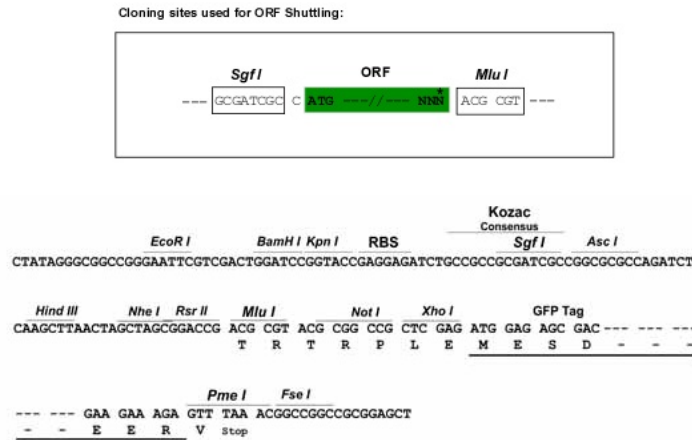
TTATATGCTAAAAAGTTGGATACACTCCAGATTGGATATTTCTGCTGAGAAATGTAATGCGAATCAGT
CCAGATCAGGGACAGCAGTTTGCCCAAATGTTAGTTCAAGATGAAGAGCCTCTTGCTGACATCACACAG
ATTGTAGATGCTTTATGGAATACAATCTAATTCAGCAGTGTACTGCATTCTTGCTTGATGCTCTGAAG
AATAATCGCCCATCTGAAGGTCCTTTACAGACGCGGTTACTTGAGATGAACCTTATGCATGCGCCTCAA
GTTGCAGATGCTATTCTAGGCAATCAGATGTTACACATTATGACCGGGCTCATATTGCTCAACTGTGT
GAAAAGGCTGGCTACTGCAGCGTGCATTAGAACATTTCACTGATTTATATGATATAAAACGTGCAGTG
GTTACACCCCATCTTAAACCCTGAGTGGTTAGTCAACTACTTTGGTTCTTATCAGTAGAAGACTCC
CTAGAATGTCTCAGAGCCATGCTGTCTGCCAACATCCGTGAGAATCTGCAGATTTGTGTTGAGTGGCT
TCTAAATATCATGAACAACGTCAACTCAGTCTCTGATTGAACTTTTGAATCTTCAAGAGTTTTGAA
GGTCTCTTTATTTCTGGGATCCATTGTTAACTTTAGCCAGGACCCAGATGTGCACTTTAAATATATT
CAGGCAGCTTGCAAGACTGGGCAAATCAAAGAAGTAGAAAGAATCTGTAGAGAAAGCAACTGCTACGAT
CCTGAGCGAGTCAAGAATTTTCTTAAGGAAGCAAACTAACAGATCAGCTACCATTATCATTGTGTGT
GATCGATTTGACTTTGTCCATGATTTGGTGTCTATTTATATAGAAATATCTTCAAAGTATATAGAG
ATATATGTACAGAAGGTGAATCCAAGTCGACTTCTGTAGTTATTGGAGGATTACTTGATGTTGACTGT
TCTGAAGATGTCATAAAAACTTGATTCTGTTGTAAGAGTCAATTCTCTACTGATGAGCTTGTGCT
GAGGTTGAAAAAGAAACAGATTGAAACTGCTTCTGCCTTGGCTAGAGGCCAGAATTCATGAGGGCTGT
GAGGAGCCTGCTACTCACAATGCCTTAGCCAAAATCTACATAGACAGTAATAACAACCCGGAGAGATTT
CTTCGTGAAAAATCCCTACTATGACAGTCGCGTTGTTGGAAAGTATTGTGAGAAGAGAGATCCACATCTG
GCCTGTGTTGCTTATGAACGTGGCCAAATGTGATCTGGAACCTTATTAATGTTTGCAATGAGAATCCCTC
TTCAAAGTCTTCTCGTACCTGGTACGTCGAAAGGATCCAGAATGTGGGGCAGCGTGTGCTGGAA
AGCAATCCTTACAGGAGACCCCTAATTGACCAGGTTGTACAAACAGCTTTGTCTGAGACTCAGGACCCT
GAAGAAGTGCAGTAACGTAAAGGCTTTCATGACTGCAGACCTTCTAATGAACCTATTGAACGCTG
GAGAAAATTTGCTTGTAACTCTGATTCAGTGAACACAGGAATCTGCAAAACCTCCTTATCCTCACT
GCAATTAAGGCTGACCGTACACGTGTTATGGAGTATTAATAACCGCTGGATAATATGATGCCCCAGAT
ATTGCCAATATCGCCATCAGCAATGAGCTGTTGAAGAAGCATTGTCATTTCCGGAAATTTGATGTC
AATACTTCAGCAGTTCAGGTCTTAATTGAGCATATTGAAACTTGGATCGGGCATATGAGTTGCTGAA
CGTTGCAATGAACCTGCGGTCTGGAGTCAACTGCAAAAGCCAGTTGCAGAAAGGAATGGTGAAGAA
GCCATTGATTTCTATATCAAAGCAGATGATCCTTCTCTACATGGAAGTTGTTGAGGCTGCCAATACT
AGTGAAACTGGGAAGAACTGGTGAAGTACTTGCAGATGGCCCGTAAGAAGGCTCGAGAGTCTATGTG
GAGACAGAACTGATATTCGCACTGGCTAAAACAAACCGCCTTGCAGAGTGAAGAATTTATCAATGGA
CCAAATAATGCTCATATCCAACAAGTTGGTACCGTTGTTATGATGAAAAATGTATGATGCTGCTAAG
TTGTTGTACAATAATGTTTCCAATTTGGACGTTTGGCATCTACCTGGTTCACCTGGGTGAATATCAG
GCAGCTGTTGATGGGGCTAGGAAAGCTAACAGTACTCGAACATGGAAAGAGGCTGCTTCGCTGTGTA
GATGGGAAAGAATTCGCTTGTGCTCAGATGTGTGGACTTCATATTGTTGTACATGCAGATGAATTAGAA
GAACCTTCAACTACTATCAGGATCGTGCTATTTTGAAGAGCTGATCACCATGTTGGAAGCAGCACTG
GGACTTGAGCGAGCTCACATGGGAATGTTTACTGAATTAGCTATTCTATACTCTAAATTTAAGCCTCAG
AAAATGAGGGAGCACCTGGAGCTGTTCTGGTCTAGAGTGAATATCCCAAGGTGCTAAGAGCTGCAGAA
CAAGCTCATCTTTGGGCAGAACTGGTGTGTTTGTATGACAAGTATGAAGAATATGATAATGCCATAATT
ACCATGATGAATCATCCAACCTGATGCCTGGAAAGAAGGCAATTCAAAGATATCATTACCAAGTTGCC
AATGTGGAACATACTACAGAGCAATACAGTTCTACTTAGAATTCAGCCTCTGTTGTTAAATGATTTG
CTGATGGTGTCTCCACGTTGGATCACACTCGTGCAGTCAATTATTTAGCAAGGTTAAACAGCTA
CCACTGTTGAAACCGTATTTGCGTTCAGTTCAGAACCATAAACAACAACTGTGAATGAATCATTGAAC
AATCTTTTTATTACAGAAGAAGATTATCAGGCTCTGCGAACATCAATAGATGCTTATGACAACTTTGAC
AATATCTCGTTGCTCAGCGTTTGGAAAAACATGAACTCATTGAGTTGAGGAGAATTGCTGCTTATCTC
TTCAAAGCAACAATCGCTGGAAACAGAGTGTAGAGCTGTGCAAGAAAGACAGCCTTTACAAGGATGCA
ATGCAGTATGCTTCTGAATCTAAAGATACTGAATTGGCTGAAGAACTCCTGCAGTGGTTTTTGCAGGAA
GAAAAAGAGAGTCTTTGGAGCTGTCTGTTTACCTGTTACGATCTTTAAGGCCAGATGTCGTCCTA
GAAACTGCATGGAGGCACAATATCATGGATTTTGCATGCCTATTTTCATCCAGGTCATGAAGGAGTAC
TTGACAAAGGTGGATAAATTAGATGCTTCAAGATCACTGAGAAAAGAAGAACAAGCTACAGAGACA
CAACCCATTGTTTATGGTCAGCCCCAGTTGATGCTGACAGCAGGACCCAGTGTGCGCTCCCTCCCCAG
GCACCTTTTGGTTATGTTTATACCGCACCCCGTATGGACAGCCACAGCCTGGCTTTGGGTACAGCATG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

Protein Sequence: >Peptide sequence encoded by RG240196
 Blue=ORF Red=Cloning site Green=Tag(s)

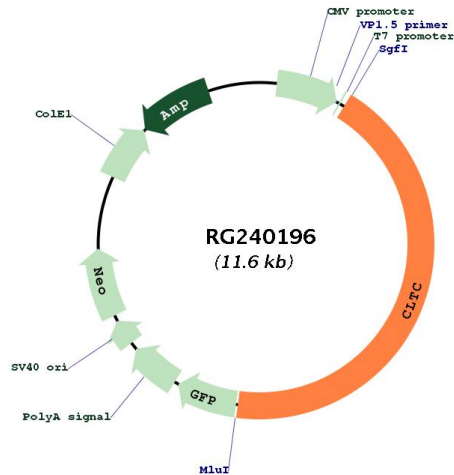
MAQILPIRFQEHLQLQNLGINPANIGFSTLTMESDKFICIREKVGEQAQVVIIDMNDPSNPIRRPISAD
 SAIMNPASKVIALKGIKESGKTLQIFNIEMKSKMKAHTMTDDVTFWKWISLNTVALVTDNAVYHWSMEG
 ESQPVKMFDHRHSLAGCQIINYRTDAKQKWL L TGISAQQNRVVGAMQLYSVDRKVSQPIEGHAASFAQ
 FKMEGNAEESTLFCFAVRGQAGGKLHIEVGTPTGNQPFPPKAVDVFFPPEAQNDFPVAMQISEKHV
 VFLITKYGYIHLVDLETGTCIYMNRISETIFVTAPHEATAGIIGVNRKQVLSVCVEEENIIPYITNV
 LQNPDLALRMVVRNLAGAEELFARKFNALFAQGNYSAAKVAANAPKGI LRTPDIRRFQSVPAQPGQ
 TSPLLQYFGILLDQGLNKYESLELCRPVYLQQGRKQLLEKWLKEDKLECESEELGDLVKSVDPTLALSVY
 LRANVPNKVIQCF AETGQVQKIVLYAKKVGYPDWIFLLRNMRI SPDQGGQFAQMLVQDEEPLADITQ
 IVDVFMEYNIQQCTAFLLDALKNNRPSGGLQTRLEMLMHAPQVADAILGNQMFTHYDRAHIAQLC
 EKAGLLQRALEHFDLYDIKRAVVHLLNPEWLVNYFGSLSVEDSLECLRAMLSANIRQNLQICVQVA
 SKYHEQLSTQSLIELFESFKSFEGLFYFLGSI VNF SQDPDVHFKEYIQAACKTGQIKEVERICRESNCYD
 PERVKNFLKEAKLTDQLPLIIVCDRDFVHDLVLYLRNNLQKYIEIYVQKVNPSRPLVVIIGLLDQDC
 SEDVIKNLILVVRGQFSTDELVAEVEKRNRLKLLPWLEARIHEGCEEPATHNALAKIYIDSNNNPERF
 LRENPYD SRVVGKYCEKRDPHLACVAYERGQCDELELINVCNENSLFKLSRYL VRRKDPPELWGSVLE
 SNPYRRPLIDQVQ TALSETQDPEEVSVTKAFMTADLPNELIELLEKIVLDNSVFSEHRNLQNLILT
 AIKADRTRVMEYINRLDNYDAPDIANIAISNELFEEAFAIFRKFVNTSAVQVLIEHIGNLDRAYEFAE
 RCNEPAVWSQLAKAQLQKGMVKEAIDSYKADDPSSYMEVVQAANTSGNWEELVKYLQMARKKARESIV
 ETELIFALAKTNRLAELEEFINGPNNAHIQQVGDRCYDEKMYDAAKLLYNNVSNFGRLASTLVHLGEYQ
 AAVDGARKANSTRTWKEVCFACVDGKEFRLAQMCGLHIVVHADELEELINYYQDRGYFEELITMLEAAL
 GLERAHMGMFTELA ILYSKFKPQKMREHLELFWSRVNIPKVLRAAEQAHLWAEVFLYDKYEEYDNAII
 TMMNHPTDAWKEGQFKDIIITKVANVELYYRAIQFYLEFKPLLLNDLLMVLSPRLDHTRAVNYFSKVKQL
 PLVKPYLRSVQNHNNKSVNESLNNLFI TEEDYQALRTSIDAYDNFDNISLAQRLEKHELIEFRRIAAYL
 FKGNNRWKQSVELCKKDSLYKDAMQYASESKDTELAEELLQWFLQEEKRECFGACLFCTCYDLLRPDVVL
 ETAWRHNIIMDFAMPYFIQVMKEYLTKVDKLDASESLRKEEEQATETQPIVYGQPQLMLTAGPSVAVPPQ
 APFGYGYTAPPYGPQPGFGYSM
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: Sgfl-Mlul

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).
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]