

Product datasheet for **MC224804**

Cltc (NM_001003908) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cltc (NM_001003908) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cltc
Synonyms:	3110065L21Rik; CHC; R74732
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224804 representing NM_001003908 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCCCAGATTCTGCCATTTCGCTTTTCAGGAGCATCTCCAGCTCCAGAACCTGGGTATCAACCCAGCAA
ACATTGGCTTCAGTACCTTGACTATGGAGTCAGACAAATTCATCTGCATTAGAGAAAAAGTGGGAGAGCA
GGCCCAGGTGGTAATCATTGATATGAATGATCCAAGTAATCCAATTCGAAGACCAATCTCAGCAGACAGT
GCCATCATGAATCCTGCCAGCAAAGTGATTGCACTGAAAGCTGGCAAACTCTTCAGATATTTAACATTG
AAATGAAAAGTAAAATGAAGGCCATACCATGACTGATGATGTCACCTTCTGGAAATGGATCTCTTTGAA
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ATGTTTGCATCGTCATTCTAGCCTCGCAGGATGCCAGATCATCAATTACCGTACAGATGCAAAGCAGAAAT
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GAAGAATCAACATTATTTGTTTTGCTGTGCGGGTCAGGCAGGAGGAAAGTTACATATCATTGAAGTTG
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TATATTCACCTCTATGATCTTGAGACTGGCACGTGCATCTACATGAACAGAATCAGCGGAGAAAACCTCT
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CATCCGTCGATTCAGAGTGTCCAGCTCAGCCAGGTCAAACGTCACCTCTACTTCAGTATTTCCGGAATC
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TGCTTTCAGAGACAGGCCAAGTCCAGAAGATTGTTTTATATGCTAAAAAGTTGGCTATACTCCAGACT



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GGATCTTTCTCCTGAGAAATGTCATGCGGATCAGTCCAGATCAAGGACAGCAGTTTGCTCAAATGTTAGT
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 CTATGTGGAGACAGAATTGATATTTGACTGGCTAAAACAACCCGCTTGCAGAATTAGAAGAGTTCATC
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 TCAGGCAGCAGTTGATGGTGGCAGAAAAGCTAATAGTACTCGAACATGGAAGAGGTCTGCTTTGCCCTGT
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 GCCTCTGAATCTAAAGACACAGAATTGGCTGAAGAGCTCTACAGTGGTTTTTGCAGGAAGAAAAAGAG
 AATGCTTTGGAGCTTGTCTTTACCTGTTATGATCTCTTAAGGCCAGATGTCGCTCTGAAACCCGATG
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 GATAAATTAGATGCTTCCGAGTCGCTGAGAAAAGAAGAACAAGCTACAGAGACACAGCCATTGTTT
 ATGGTCAGCCCCAGCTGATGCTAACAGCAGGACCCAGTGTGGCAGTCCCTCCCCAGGCACCTTTTGGTTA
 TGTTTACTGCACCACCGTATGGGCAGCCACAGCCTGGCTTTGGGTACAGCATGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_001003908

Insert Size:

5028 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).

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_001003908.1](#), [NP_001003908.1](#)**RefSeq Size:**

6178 bp

RefSeq ORF:

5028 bp

Locus ID:

67300

UniProt ID:[Q68FD5](#)**Cytogenetics:**

11 C

Gene Summary:

Clathrin is the major protein of the polyhedral coat of coated pits and vesicles. Two different adapter protein complexes link the clathrin lattice either to the plasma membrane or to the trans-Golgi network. Acts as component of the TACC3/ch-TOG/clathrin complex proposed to contribute to stabilization of kinetochore fibers of the mitotic spindle by acting as inter-microtubule bridge. The TACC3/ch-TOG/clathrin complex is required for the maintenance of kinetochore fiber tension. Plays a role in early autophagosome formation.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 3' coding region, compared to variant 1. It encodes isoform 2, which lacks an internal segment and is shorter, compared to isoform 1.