

Product datasheet for MR212064

Cltc (NM_001003908) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Cltc (NM_001003908) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Cltc |
| Synonyms: | 3110065L21Rik; CHC; R74732 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR212064 representing NM_001003908 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGATTCTGCCATTGCTTTTCAGGAGCATCTCCAGCTCCAGAACCTGGGTATCAACCCAGCAA
ACATTGGCTTCAGTACCTTGACTATGGAGTCAGACAAATTCATCTGCATTAGAGAAAAAGTGGGAGAGCA
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TGCTTTGCAGAGACAGGCCAAGTCCAGAAGATTGTTTTATATGCTAAAAAAGTTGGCTATACTCCAGACT
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 TGGTTACTGCACCACCGTATGGGCAGCCACAGCCTGGCTTTGGGTACAGCATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR212064 representing NM_001003908
Red=Cloning site Green=Tags(s)

MAQILPIRFQEHLLQNLGINPANIGFSTLTMESDKFICIREKVGEQAQVVIIDMNDPSNPIRRPISADS
AIMNPASKVIALKAGKTLQIFNIEMKSKMKAHTMTDDVTFWKWISLNTVALVTDNAVYHWSMEGESQPVK
MFDHRSSLAGCQIINYRTDAKQKWLTLTGISAQQNRVVGAMQLYSVDRKVSQPIEGHAASFAQFKMEGNA
EESTLFCFAVRGQAGGKLLHIEVGTPTGNQPPFKKAVDVFFPPEAQNDFPVAMQISEKHQDVVFLITKYG
YIHLVDLETGTCIYMNRISETIFVTAPHEATAGIIGVNRKQVLSVCVEEENIIPYITNVLQNPDLALR
MAVRNLLAGAEEFLARKFNALFAQGNYSAAKVAANAPKGIILRTPDIRRFQSVPAQPGQTSPLLYQYFGI
LLDQGLNKYESLELCPVLLQGRKQLLEKWLKEDKLECEELGDLVKSVDPTLALSVYLRANVPNKVIQ
CFAETGGVQKIVLYAKKVGYPDWIFLLRNVMRISPDQGGQFAQMLVQDEEPLADITQIVDFMEYNLIQ
QCTAFLLDALKNNRPSGFLQTRLLEMNLMHAPQVADAILGNQMFTHYDRAHIAQLCEKAGLLQRALEHF
TDLYDIKRAVVHHTLLNPEWLVNYFGSLSVEDSLECLRAMLSANIRQLQICVQVASKYHEQLSTQSLIE
LFESKSFEGFLYFLGSIYNFSQDPDVHFYKIQAACTGQIKEVERICRESNCYDPERVKNFLKEAKLTD
QLPLIIVCDRDFVHDLVLYLRNLLQKYIEIYVQKVNPSRLPVVIGGLLDVDCSEDVIKNLILVVRGQF
STDELVAEVEKRNRLKLLPWLEARIHEGCEEPATHNALAKIYIDSNNNPERFLRENYYDSRVVGKYCE
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DAPDIANIAISNELFEEAFIFRKFVNTSAVQVLEIHNLDRAVEFAERCNEPAVWSQLAKAQLQKGM
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NGPNAHIQQVGDRCYDEKMYDAKLLYNNVSNGRLASTLVHLGEYQAAVDGARKANSTRTWKEVCFAC
VDGKEFRLAQMCGLHIVVHADELEELINYYQDRGYFEELITMLEAALGLERAHMGFTLAILYSKFKPQ
KMREHLELFWSRVNIKVLRAEAQHLWAEVFLYDKYEEYDNAIITMMNHPTDAWKEGQFKDIITKVAN
VELYYKAIQFYLEFKPLLLNDLLMVLSPRLDHTRAVNYFSKVKQLPLVKPYLRSVQNHNNKSVNESLNNL
FITEEDYQALRTSIDAYDNFDNISLAQRLEKHELIEFRRIAAYLFGNNRWKQSVELCKKDSLKYDAMQY
ASESKDELAEELLQWFLQEERECFGACLFCTCYDLLRPDVVLETAWRHNIMDFAMPYFIQVMKEYLTKV
DKLDASESLRKEEEQATETQPIVYGQPQLMLTAGPSVAVPPQAPFGYGYTAPPYGGPQPGFGYSM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9037_a05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001003908

ORF Size: 5025 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_001003908.2](#)

RefSeq Size: 6178 bp

RefSeq ORF: 5028 bp

Locus ID: 67300

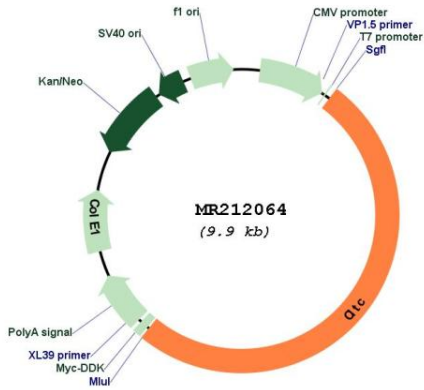
UniProt ID: [Q68FD5](#)

Cytogenetics: 11 C

MW: 192 kDa

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]

Product images:



Circular map for MR212064