

Product datasheet for **RC234902**

CPT1C (NM_001199753) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPT1C (NM_001199753) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CPT1C
Synonyms:	CATL1; CPT1-B; CPT1P; CPTI-B; CPTIC; SPG73
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234902 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

RCATGGCTGAAGCGCACCCAGGCCGTGGGCTTCCGACCCTCGCTGACCTCGGACGGGGCTGAAGTGGAACT
 CAGTGCCCTGTGCTGCAGGAGATCTACCTCTCTGGCCTGCGCTCCTGGAAAAGGCATCTCTCACGTTTC
 TGGAAAGACTTTCTACCGGTGTGTTTCTGCCAGCCCCCTCAGTTGGCTTTTCTCTTTCAGTGCCATCC
 AGCTTGCCTGGTCTCCAGCTGGATCCTTCTTAGGACTGATGGAGAAGATCAAAGAGTTGCTGCCTGA
 CTGGGGTGGACAACACCACGGGCTCCGGGGGCTCCTGGCAGCCGCGCTGTTTGCCTGTGTTTGGGGGA
 GCCCTGATCTTCACTGCACGTGGCCCTGAGGCTGCTTCTGTCTACCACGGCTGGCTTCTGAGCCCC
 ACGGAGCCATGTCCTCCCCACCAAGACCTGGCTGGCCCTGGTCCGCATTTCTCTGGCCGCCACCCGAT
 GCTGTTCACTTACCAGCGCTCCCTGCCACGCCAGCCCGTGCCTCTGTGCAGGACACCGTGCGAAGTAC
 CTGGAGTCGGTCCGGCCATCCTCTCCGACGAGGACTTCGACTGGACCGGGTCTGGCGCAGGAATTCC
 TGAAGGCTGCAGGCGTCCGCTGCTGCAAGTGGTACCTGCGGCTCAAGTCTGGTGGGCGTCCAATTATGTCAG
 TGAAGTGGTGGGAGGAATTTGTGTACCTGCGCTCCCGAAATCCGCTGATGGTGAACAGCAACTATTACATG
 ATGGACTTCTGTATGTACACCCACGCCTCTGCAGGCAGCTCGCGCTGGGAATGCCGTCCATGCCCTCC
 TCCTGTACCGCCACCGCTGAACCGCCAGGAGATACCCCGACTTTGCTGATGGGAATGCCCCCTTATG
 CTCTGCCAGTACGAGAAGATCTTCAACACCACGCGGATTCAGGGGTCCAAAAGACTACATCCGCCAC
 CTCCATGACAGCAACACGTGGCTGTCTTCCACCGGGCCGATTCTTCCGCATGGGGACCCACTCCCGAA
 ACAGCTGCTTTCCCGAGAGCCCTGGAGCAGCAGTTTCCAGAGAATCCTGGATGATCCCTACCGGCCCTG
 CCCCACGAGGAACATCTGGCAGCTCTGACAGCTGCTCCAGGGGCACGTGGGCCAGGTGCGGACATCC
 CTGAAGACCCAGGCAGCGAGGCCCTGGAGGCGGTGGAAGGGGCCGCTTTCTTTGTGCTACTGGATGCTG
 AGCCCGCGGGGCTCACAGGGAGGACCCGCGAGCGTCTGGATGCCTACGCCATGCTCTGCTGGCCGG
 CCGGGGCCATGATCGCTGGTTTGACAAATCCTTACCCTAATCGTCTTCTCTAACGGGAAGCTGGCCCTC
 AGCGTGGAGCACTCCTGGCCGACTGCCCATCTCAGGACACATGTGGGAGTTCACTCTGGCTACAGAAT
 GCTTTCACTGGGCTACTCAACAGACGGCCACTGCAAGGGGCACCCGGACCCCACTACCCAGCCCCA
 GCGGCTGCAATGGGACCTTCCAGACCAGATCCACTCCTCCATCTCTAGCCCTGAGGGGAGCCAAGATC
 TTGTCTGAAAATGTCGACTGCCATGTCGTTCCATTCTCCCTATTTGGCAAGAGCTTCATCCGACGCTGCC
 ACCTCTTTCAGACAGCTTCATCCAGATCGCCTTGCAACTGGCCACTTCCGGGACAGGGGTCAATTCTG
 CCTGACTTATGAGTCGGCCATGACTCGCTTATTCTGGAAGGCCGACGGAGACGGTGGCGTCTTGACCG
 AGGGAGGCTGCAACTTTGTGAGGGCCATGGAGGACAAAGAGAAGACGGACCCACAGTGCCTCGCCCTGT
 TCCGCGTGGCAGTGGACAAGCACCAGGCTCTGTGAAAGGCAGCCATGAGCGGGCAGGGAGTTGACCGCCA
 CCTGTTTGCCTGTACATCGTGTCCCGATTCTCCACCTGCAGTGCCTTCTGACCCAGGTCCATTCTG
 GAGCAGTGGCAGCTGTCCACCAGCCAGATCCCTGTTTCCAGCAATGCATCTGTTTACGCTCCACAATTACC
 CGGACTATGTTTCTCAGGCGGTGGATTCCGGCCCTGTGATGACCATGGTTATGGTGTCTTATATCTT
 CATGGGGGATGGCATGATCACCTTCCACATCTCCAGCAAAAAATCAAGCAGAAAAACGGATTCCACAGG
 CTGGGGCAGCACATTGAGGACGCACTGCTGGATGTGGCTCCCTGTTCCAGGCGGGACAGCATTTTAAGC
 GCCGTTTCAGAGGTGAGGGAAGGAGAATCCAGGCACAGGTGTGGATTTCTCTCCGCCAGACTGGGGC
 CTCCAAGGCTCAATGACATCCACCGACTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234902 protein sequence
Red=Cloning site Green=Tags(s)

XWLKRTRPWASDPR*PRTGLKWNSVPLCCRRSTSLACAPGKGISHVSGMTFSPVCFLPAPSVGFSSSVPS
SLPGSSSWILP*D*WRRSKSCCLTGVDNTTGGGSWQPRCLPRVCGEP*SSHCTWP*GCFCTTAGFLSP
TEPCPPPPRPGWPWSASSLAATRCCSVTSAPCHASPCPLCRTPCASTWSRSGPSSPTRTSTGPRSWRRNS
*GCRRRCCSGTCGSSPGGRPIMSVTGGRNLCTCAPEIR*W*TATIT*WTSCMHPRLCRQLALGMPMPMS
SCTATA*TARRYPRLC*WECAPYALPSTRRSSTPRGFQGSKTTTSATSMTANTWLSSTGADSSAWGPTPE
TACFPREPWSSSFRESWMIHPRPAPTRNIWQL*QLLPARGPRCGHP*RPRQRRPWRRWKGPLSLCHWML
SPRGSPGRTRQRRWMPMLCWPAGAMIAGLTNPSP*SSSLTGSWASAWSTPGPTAPSQDTCGSSSLWLQN
AFSWATQQTATARGTRTPHYSPSPGCNGTFQTRSTPPSL*P*GEPRLCKMSTAMSFHSPYLARASSDAA
TSLQTASSRSPCNWPTSGTGVNSA*LMSRP*LAYSWKAGRRRCGLARGRPATLSGPWRTRRRRTHSASPC
SAWQWTSTRLC*RQP*AGREL TATCLRCTSCPDSSTCSRPS*PRIRSSGSCPPARSLFSKICICLSTIT
RTMFPQAVDSGLLMTMVMVFLISSWGMA*SPSTSPAKNQAQKRIPTGWGSLRTHCWMWPPCSRDSILS
AGSEGQRRTPGTGVDSPARLGP RPQ*HPPT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6253_e08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001199753

ORF Size: 2409 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_001199753.2](#)

RefSeq Size: 2883 bp

RefSeq ORF: 2412 bp

Locus ID: 126129

UniProt ID: [Q8TCG5](#)

Cytogenetics: 19q13.33

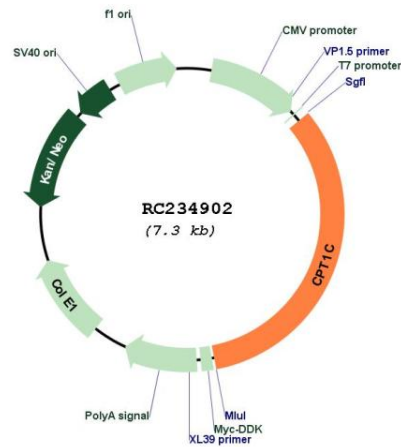
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Adipocytokine signaling pathway, Fatty acid metabolism, PPAR signaling pathway

MW: 91 kDa

Gene Summary: This gene encodes a member of the carnitine/choline acetyltransferase family. The encoded protein regulates the beta-oxidation and transport of long-chain fatty acids into mitochondria, and may play a role in the regulation of feeding behavior and whole-body energy homeostasis. Alternatively spliced transcript variants encoding multiple protein isoforms have been observed for this gene. [provided by RefSeq, Dec 2010]

Product images:



Circular map for RC234902