

Product datasheet for **RC234901**

CPT1C (NM_001199752) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPT1C (NM_001199752) 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:

>RC234901 representing NM_001199752
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTGAAGCGCACCAGGCCGTGGCTTCCGACCCTCGCTGACCTCGGACGGGGCTGAAGTGAAGTCA
GTGCCCTGTGCTGCAGGAGATCTACCTCTGGCCTGCGCTCCTGAAAAGGCATCTCTCACGTTTCTG
GAATGACTTTCTACCGGTGTGTTTCTGCCAGCCCCCTCAGTTGGCTTTTCTCTTTCAGTGCCATCCAG
CTTGCCCTGGTTCCAGCTGGATCCTTCTTAGGACTGATGGAGAAGATCAAAGAGTTGCTGCCTGACT
GGGGTGGACAACACCACGGGCTCCGGGGGCTCTGGCAGCCGCGCTGTTTGCCTCGTGTGTTGGGGAGC
CCTGATCTTACACTGCACGTGGCCCTGAGGCTGCTTCTGTCTACCACGGCTGGCTTCTGAGCCCCAC
GGAGCCATGTCTCCCCACCAAGACCTGGCTGGCCCTGGTCCGCATCTTCTGCGCCGCCACCCGATGC
TGTTCACTTACCAGCGCTCCCTGCCACGCCAGCCCGTCCCTCTGTGCAGGACACCGTGCACAAGTACCT
GGAGTCGGTCCGGCCATCCTCTCCGACGAGGACTTCGACTGGACCGCGTCTGGCGCAGGAATTCCTG
AGGCTGCAGGCGTCTGCTGCAGTGGTACCTGCGGCTCAAGTCTGGTGGGCGTCCAATTATGTCAGTG
ACTGGTGGGAGGAATTTGTGTACCTGCGCTCCCGAAATCCGCTGATGGTGAACAGCAACTATTACATGAT
GGACTTCTGTATGTACACCCACGCCTCTGCAGGCAGCTCGCGCTGGGAATGCCGTCCATGCCCTCCTC
CTGTACCGCCACCGCCTGAACCGCCAGGAGATACCCCGACTTTGCTGATGGGAATGCGCCCTTATGCT
CTGCCCAGTACGAGAAGATCTTCAACACCACGCGGATTCAGGGGTCCAAAAAGACTACATCCGCCACCT
CCATGACAGCCAACACGTGGCTGTCTTCCACCGGGGCCGATTCTCCGCATGGGGACCCACTCCCGAAAC
AGCCTGCTTTCCCGAGAGCCCTGGAGCAGCAGTTTCAGAGAATCCTGGATGATCCCTCACCGCCCTGCC
CCCACGAGAACAATCTGGCAGCTCTGACAGCTCTCCAGGGGACGTTGGGCCACGTTGGGCCAGGATCCCT
GAAGACCCAGGCAGCGGAGGCCCTGGAGGCGGTGGAAAGGGCCGCTTTCTTTGTGTCAGTGGATGCTGAG
CCCGCGGGGCTCACCAAGGAGGACCCGGCAGCGTCTGGATGCCTACGCCCATGCTCTGCTGGCCGGCC
GGGGCCATGATCGCTGGTTTGACAAATCCTTACCCTAATCGTCTTCTTAACGGGAAGCTGGGCCCTCAG
CGTGGAGCACTCTGGCCGACTGCCCATCTCAGGACACATGTGGGAGTTCACTCTGGTACAGAATGC
TTTCAGCTGGGCTACTCAACAGACGGCCACTGCAAGGGGACCCGGACCCACACTACCCAGCCCCAGC
GGCTGCAATGGGACCTTCCAGACCAGATCCACTCCTCCATCTCTAGCCCTGAGGGGAGCCAAGATCTT
GTCTGAAATGTCGACTGCCATGTGTTCCATTCTCCCTATTTGGCAAGAGCTTCATCCGACGCTGCCAC
CTCTTTCAGACAGCTTCATCCAGATCGCCTTGAACCTGGCCACTTCCGGGACAGGGTCAATTCTGCC
TGACTTATGAGTCGGCCATGACTCGCTTATTCCTGGAAGGCCGGACGGAGACGGTCCGGTCTTGACAGAG
GGAGGCCCTGCAACTTTGTGAGGGCCATGGAGGACAAAGAGAAGACGGACCCACAGTGCCTCGCCCTGTT
CGCGTGGCAGTGGACAAGCACCAGGCTCTGCTGAAGGCAGCCATGAGCGGGCAGGGAGTTGACCGCCACC
TGTTTGGCTGTACATCGTGTCCGATTCTCCACCTGCAGTCCGCTTCTGACCCAGGTCATTCCGGA
GCAGTGGCAGCTGTCCACCAGCCAGATCCCTGTTGAGCAATGCATCTGTTTGACGTCCACAATTACCCG
GACTATGTTTCTCAGGCGGTGGATTCGGGCTGCTGATGACCATGGTTATGGTGTCTTATATCTTCA
TGGGGATGGCATGATCACCTTCCACATCTCCAGCAAAAAATCAAGCACAAAAACGGATCCACAGGCT
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CGGTTTCAGAGGGTCAGGGAAGGAGAATCCAGGCACAGGTGTGGATTTCTCTCCGCCAGACTGGGCCT
CCAAGGCCTCAATGACATCCACCGACTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234901 representing NM_001199752
Red=Cloning site Green=Tags(s)

MAEAHQAVGFRPSLTS DGA EVELSAPVLQEIYLSGLRSWKRHL SRFW NDFLTGVFPASPLSWLFLFS AIQ
LAWFLQLDPSLGLMEKIKELL PDWGGQHHLRGVLA AALFASCLWGALIFTLHVALRLLLSYHGWLLEPH
GAMSSPTKTWLALVRIFSGRHPMLFSYQRSLPRQPVPSVQDTRVKYLESVRPILSDEDFDWTAVLAQEFL
RLQASLLQWYLR LKSWWASNYVSDWEEFVYLR SRNPLMVSNYMMDFLYVTP TPLQAARAGNAVHALL
LYRHRLNRQEIPPTLLMGRPLCSAQYEKIFNTTRIPGVQKDYIRHLHDSQHVAVFHRGRFFRMGTHSRN
SLLSPRALEQQFQRILDDPSPACPHEEHLAALTAAPRGTWAQVRTSLKTQAAEAL EAVEGA AFFVSLDAE
PAGLTREDPAASL DAYAHALLAGRGH DRWFDKSF TLIVFSNGKLG L SVEHSWADCPISGHMWEFTLATEC
FQLGYSTDGHCKGHPDPTLPQPQLQWDL PDQIHSSISLALRGAKIL SENVDCHVVPFSLFGKSFIRRH
LSSDSFIQIALQLAHFRDRGQFCLTYESAMTRLFLEGR TETVR SCTREACNFVRAMEDKEKTD PQCLALF
RVAVDKHQALLKAAMSGQGVDRHLFALYIVSRFLHLQSPFLTQVHSEQWQLSTSQIPVQQMHLFDVHNYP
DYVSSGGGFGPADDHGYVSYIFMGDGMITFHIS SKKSSTKTDSHRLGQHIEDALLDVASL FQAGQHFKR
RFRGSGKENS RHRCGFLSRQTGASKASMTSTDF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_001199752

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_001199752.3](#)

RefSeq Size: 2935 bp

RefSeq ORF: 2412 bp

Locus ID: 126129

UniProt ID: [Q8TCG5](#)

Cytogenetics: 19q13.33

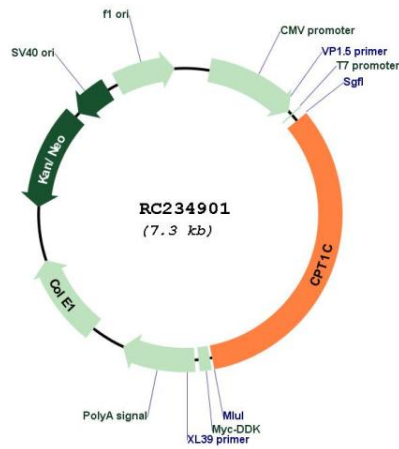
Protein Families: Druggable Genome, Transmembrane

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 RC234901