

Product datasheet for **RG234901**

CPT1C (NM_001199752) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPT1C (NM_001199752) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CPT1C
Synonyms:	CATL1; CPT1-B; CPT1P; CPTI-B; CPTIC; SPG73
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234901 representing NM_001199752
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGAAGCGCACCAGGCCGTGGCTTCCGACCCTCGCTGACCTCGGACGGGGCTGAAGTGAAGTCA
 GTGCCCTGTGCTGCAGGAGATCTACCTCTGGCCTGCGCTCCTGAAAAGGCATCTCTCACGTTTCTG
 GAATGACTTTCTACCGGTGTGTTTCTGCCAGCCCCCTCAGTTGGCTTTTCTCTTTCAGTGCCATCCAG
 CTTGCCTGGTTCTCCAGCTGGATCCTTCTTAGGACTGATGGAGAAGATCAAAGAGTTGCTGCCTGACT
 GGGGTGGACAACACCACGGGCTCCGGGGGCTCTGGCAGCCGCGCTGTTTGCCTCGTGTGTTGGGGAGC
 CCTGATCTTACACTGCACGTGGCCCTGAGGCTGCTTCTGTCTACCACGGCTGGCTTCTGAGCCCCAC
 GGAGCCATGTCTCCCCACCAAGACCTGGCTGGCCCTGGTCCGCATCTTCTGCGCCGCCACCCGATGC
 TGTTCACTTACCAGCGCTCCCTGCCACGCCAGCCCGTCCCTCTGTGCAGGACACCGTGCACAAGTACCT
 GGAGTCGGTCCGGCCATCCTCTCCGACGAGGACTTCGACTGGACCGCGTCTGGCGCAGGAATCCTG
 AGGCTGCAGGCGTCTGCTGCAGTGGTACCTGCGGCTCAAGTCTGGTGGGCGTCCAATTATGTCAGTG
 ACTGGTGGGAGGAATTTGTGTACCTGCGCTCCCGAAATCCGCTGATGGTGAACAGCAACTATTACATGAT
 GGACTTCTGTATGTACACCCACGCCTCTGCAGGACGCTCGCGCTGGGAATGCCGTCCATGCCCTCCTC
 CTGTACCGCCACCGCCTGAACCGCCAGGAGATACCCCGACTTTGCTGATGGGAATGCGCCCTTATGCT
 CTGCCCAGTACGAGAAGATCTTCAACACCACGCGGATTCCAGGGGTCCAAAAAGACTACATCCGCCACCT
 CCATGACAGCCAACACGTGGCTGTCTTCCACCGGGGCCGATTCTCCGCATGGGGACCCACTCCCGAAAC
 AGCCTGCTTCCCGAGAGCCCTGGAGCAGCAGTTTCCAGAGAATCCTGGATGATCCCTCACCGCCCTGCC
 CCCACGAGAACATCTGGCAGCTCTGACAGCTCTCCAGGGGCACGTGGGCCCAGGTGGGACATCCCT
 GAAGACCCAGGCAGCGGAGGCCCTGGAGGCGGTGGAAAGGGCCGCTTTCTTTGTGTCAGTGGATGCTGAG
 CCCGCGGGGCTCACCAAGGAGGACCCGGCAGCGTCTGGATGCCTACGCCCATGCTCTGCTGGCCGGCC
 GGGCCATGATCGCTGGTTTGACAAATCCTTACCCTAATCGTCTTCTTAACGGGAAGCTGGGCTCAG
 CGTGGAGCACTCTGGCCGACTGCCCATCTCAGGACACATGTGGGAGTTCACTCTGGTACAGAATGC
 TTTCACTGGGCTACTCAACAGACGGCCACTGCAAGGGGCACCCGGACCCACACTACCCAGCCCCAGC
 GGCTGCAATGGGACCTTCCAGACCAGATCCACTCCTCCATCTCTAGCCCTGAGGGGAGCCAAGATCTT
 GTCTGAAATGTCGACTGCCATGTGTTCCATTCTCCCTATTTGGCAAGAGCTTCATCCGACGCTGCCAC
 CTCTTTCAGACAGCTTCATCCAGATCGCCTTGAACCTGGCCACTTCCGGGACAGGGTCAATTCTGCC
 TGACTTATGAGTCGGCCATGACTCGCTTATCCTGGAAGGCCGGACGGAGACGGTCCGCTTTCAGCAGG
 GGAGGCCCTGCAACTTTGTGAGGGCCATGGAGGACAAAAGAGAAGACGGACCCACAGTGCCTCGCCCTGTT
 CGCGTGGCAGTGGACAAGCACCAGGCTCTGCTGAAGGCAGCCATGAGCGGGCAGGGAGTTGACCGCCACC
 TGTTTGGCTGTACATCGTGTCCCGATTCTCCACCTGCAGTCCGCTTCTGACCCAGGTCCATTCGGA
 GCAGTGGCAGCTGTCCACCAGCCAGATCCCTGTTGAGCAAAATGCATCTGTTTGACGTCCACAATTACCCG
 GACTATGTTTCTCAGGCGGTGGATTCCGGCCCTGCTGATGACCATGGTTATGGTGTCTTATATCTTCA
 TGGGGATGGCATGATCACCTTCCACATCTCCAGCAAAAATCAAGCACAAAAACGGATTCCACAGGCT
 GGGGCAGCACATTGAGGACGCACTGCTGGATGTGGCCTCCCTGTTCCAGGCGGGACAGCATTTTAAGCGC
 CGGTTTCAGAGGGTCAGGGAAGGAGAATCCAGGCACAGGTGTGGATTTCTCTCCCGCCAGACTGGGCGCT
 CCAAGGCCTCAATGACATCCACCGACTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

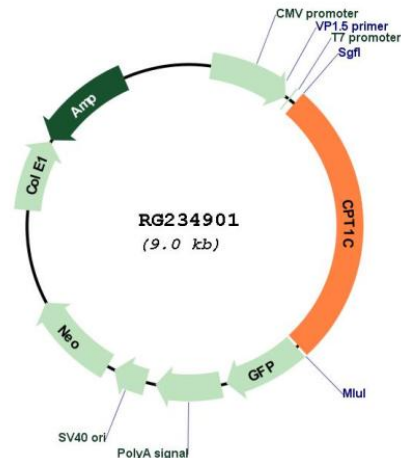
Protein Sequence: >RG234901 representing NM_001199752
Red=Cloning site Green=Tags(s)

MAEAHQAVGFRPSLTS DGA EVEL SAPVLQEIYLSGLRSWKRHL SRFW NDFLTGVFPASPLSWLFLFS AIQ
LAWFLQLDPSLGLMEKIKELL PDWGGQHHLRGVLA AALFASCLWGALIFTLHVALRLLLSYHGWLLEPH
GAMSSPTKTWLALVRIFSGRHPMLFSYQRSLPRQPVPSVQD TVRKYLESVRPILSDEDFDWTAVLAQEFL
RLQASLLQWYLR LKSWWASNYVSDWEEFVYLR SRNPLMVSNYMMDFLYVTP TPLQAARAGNAVHALL
LYRHRLNRQEIPPTLLMGM RPLCSAQYEKIFNTTRIPGVQKDYIRHLHDSQH VAVFHRGRFFRMGTHSRN
SLLSPRALEQQFQRILDDPSPAC PHEEHLAALTAAPRG TWAQVRTSLKTQAAEAL EAVEGA AFFVSLDAE
PAGLTREDPAASL DAYAHALLAGRGH DRWFDKSF TLIVFSNGK LGLSVEHSWADCPISGHMWEFTLATEC
FQLGYSTDGHCKGHPDPTLPQPQLQWDL PDQIHSSISLALRGAKIL SENVDCHVVPFSLFGKSFIRRH
LSSDSFIQIALQLAHFRDRGQFCLTYESAMTRLFLEGR TETVRSCTREACNFVRAMEDKEKTD PQCLALF
RVAVDKHQALLKAAMSGQGVDRHLFALYIVSRFLHLQSPFLTQVHSEQWQLSTSQIPVQQMHLFDVHNYP
DYVSSGGGFGPADDHGYVSYIFMGDGMITFHIS SKKSSTKTDSHRLGQHIEDALLDVASL FQAGQHFKR
RFRGSGKENS RHRCGFLSRQTGASKASMTSTDF

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Plasmid Map:



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: 2918 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

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]