

Product datasheet for **SC100388**

CPT1C (NM_152359) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPT1C (NM_152359) Human Untagged Clone
Tag:	Tag Free
Symbol:	CPT1C
Synonyms:	CATL1; CPT1-B; CPT1P; CPTI-B; CPTIC; SPG73
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC100388 sequence for NM_152359 edited (data generated by NextGen Sequencing)

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ATGGCTGAAGCGCACCAGGCCGTGGGCTTCCGACCCTCGCTGACCTCGGACGGGGCTGAA
GTGGAACCTCAGTGCCCTGTGCTGCAGGAGATCTACCTCTCTGGCCTGCGCTCCTGGAAA
AGGCATCTCTACGTTTCTGGAATGACTTTCTACCGGTGTGTTTCTGCCAGCCCCCTC
AGTTGGCTTTTCTCTTTCAGTGCCATCCAGCTTGCCTGGTTCTCCAGCTGGATCCTTCC
TTAGGACTGATGGAGAAGATCAAAGAGTTGCTGCCTGACTGGGGTGGACAACACCACGGG
CTCCGGGGGGTCCCTGGCAGCCGCGCTGTTTGCCTCGTGTGTTGTGGGGAGCCCTGATCTTC
ACACTGCACGTGGCCCTGAGGCTGCTTCTGTCTACCACGGCTGGCTTCTTGAGCCCCAC
GGAGCCATGTCTCCCCACCAAGACTGGCTGGCCCTGGTCCGCATCTTCTCTGGCCGC
CACCCGATGCTGTTACGTTACCAGCGCTCCCTGCCACGCCAGCCCGTGCCTCTGTGCAG
GACACCGTGCACAAGTACCTGGAGTCGGTCCGGCCATCTCTCCGACGAGGACTTCGAC
TGGACCGCGGTCTGGCGCAGGAATTCCTGAGGCTGCAGGCGTCGCTGCTGCAGTGGTAC
CTGCGGCTCAAGTCTGGTGGGCGTCCAATTATGTCAGTACTGGTGGGAGGAATTTGTG
TACCTGCGCTCCCGAAATCCGCTGATGGTGAACAGCAACTATTACATGATGGACTTCCTG
TATGTACACCCACGCCCTCTGCAGGCAGCTCGCGCTGGGAATGCCGTCCATGCCCTCCTC
CTGTACCGCCACCGCCTGAACCGCCAGGAGATACCCCGACTTTGCTGATGGGAATGCGC
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CCAGCGGAGCCCTGGAGGCGGTGGAAGGGCCGCTTTCTTTGTGTCACTGGATGCTGAG
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TGCAAGGGGCACCCGACCCCACTACCCAGCCCAAGCGGCTGCAATGGGACCTTCCA
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GTCGACTGCCATGTCGTTCCATTCTCCCTATTTGGCAAGAGCTTCATCCGACGCTGCCAC
CTCTTTCAGACAGCTTCATCCAGATCGCCTTGAACCTGGCCACTTCCGGGACAGGGGT
CAATTCTGCCTGACTTATGAGTCGGCCATGACTCGCTTATCCTGGAAGGCCGGACGGAG
ACGGTGGCGTCTTGACAGGAGGGAGCCTGCAACTTTGTGACGGCCATGGAGGACAAGAG
AAGACGGACCCACAGTGCCTCGCCCTGTTCCGCGTGGCAGTGGACAAGCACCAGGCTCTG
CTGAAGGCAGCCATGAGCGGGCAGGGAGTTGACCGCCACTGTTTGCCTGTACATCGTG
TCCCGATTCTCCACCTGCAGTCGCCCTTCTGACCCAGGTCCATTCCGAGCAGTGGCAG
CTGTCCACCAGCCAGATCCCTGTTACAGCAAATGCATCTGTTTACGTCACCAATTACCCG
GACTATGTTTCTCAGGCGGTGGATTCCGGCCTGCTGATGACCATGGTTATGGTGTCTTCT
TATATCTTCAATGGGGATGGCATGATCACCTTCCACATCTCCAGCAAAAAATCAAGCACA
AAAACGGATTCCACAGGCTGGGGCAGCACATTGAGGACGCACTGCTGGATGTGGCCTCC
CTGTTCCAGGCGGGACAGCATTTTAAGCGCCGGTTCAGAGGGTACGGGAAGGAGAATCC
AGGCACAGGTGTGGATTTCTCTCCGCCAGACTGGGGCCTCCAAGGCCTCAATGACATCC
ACCGACTTCTGA
    
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Clone variation with respect to NM_152359.2

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_152359 unedited AGGGCGGCCCGCAATTCGCACGAGGAGGAATCGGGGTTTCTGGGTGACGGTGATCTCGG GGTGGGCAGGACTCCAAAGGCCCGTCGACCCGGTGGTGGACTCCTTGCCTGGGATTGGA CATATGCAAGCGGGAGATTTGGGGCCGGCGCTCAAATCGGGGGCGGGGGTGGACTCGG GTTTGGACCCAGGATCCGATCAGCGGACCCTTGATTCAACGTGGGCTCCAGCGTGACAT GGCTGAAGCGCACGAGCCGTGGGCTCCGACCCTCGCTGACCTCGGACGGGGCTGAAGT GGAATCAGTGGCCCTGTGCTGCAGGAGATCTACCTCTTGGCCTGCGCTCCTGGAAAAG GCATCTCTACGTTTCTGGAATGACTTTCTCACCGGTGTGTTTCTGCCAGCCCCCTCAG TTGGCTTTTCTTCTCAGTGCCATCCAGCTTGCCTGGTTCTCCAGCTGGATCCTTCCTT AGGACTGATGGAGAAGATCAAAGAGTTGCTGCCTGACTGGGGTGGACAACACCACGGGCT CCGGNGGGTCTGGCAGCCGCGCTGTTTGCCTCGTGTGTGGAGAGCCCTGATCTTCAC ACTGCACGTGGCCCTGAGCTGCTTCTGCTCCTACCACGGCTGGCTTCTTGAGCCCCACGA GCCATGTNCTTCCCCACAAGACCTGNCTGCCCTGGTCCGCATCTTCTTGGCCGNCACC CGATGCTGTTACGTTACCAGCGTCCCTGCCACGCCAGCCCCGTGCCCTCTGTGCAGGAA CACGTGCGCAAGTACCTGNAGTTGGGTCCGGCCATTCTTTTCGACAAAGACTTTNACTGG ACCCGCGTCTGGCGCAAGAATTCCTGAGCTGCAAGCGTCCCTGCTGGAAGGGTCTGG GGCTCAGGCCTGGTGGGCCTTCAATATTGTAG
Restriction Sites:	NotI-NotI
ACCN:	NM_152359
Insert Size:	3000 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:	<ol style="list-style-type: none"> 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:	<u>NM_152359.1</u> , <u>NP_689572.1</u>
RefSeq Size:	2772 bp
RefSeq ORF:	2412 bp
Locus ID:	126129
UniProt ID:	<u>Q8TCG5</u>
Cytogenetics:	19q13.33
Domains:	Carn_acyltransf

Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Adipocytokine signaling pathway, Fatty acid metabolism, PPAR signaling pathway
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 3. Variants 2, 3 and 4 encode the same isoform.</p>