

## Product datasheet for **SC325333**

### CPT1C (NM\_001136052) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CPT1C (NM_001136052) Human Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:** >SC325333 representing NM\_001136052.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCTGAAGCGCACACAGGCCGTGGGCTTCCGACCCTCGCTGACCTCGGACGGGGCTGAAGTGAAGTCTC
AGTGCCCTGTGCTGCAGGAGATCTACCTCTGCGCTGCGCTCCTGAAAAGGCATCTCTCACGTTTC
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CAGCTTGCTGGTTCTCCAGCTGGATCCTTCTTAGACTGATGGAGAAGATCAAAGAGTTGCTGCCT
GACTGGGTGGACAACACCACGGGCTCCGGGGGCTCTGGCAGCCGCGCTGTTTGCCTCGTGTGTTGTGG
GGAGCCCTGATCTTCACTGCACGTGGCCCTGAGGCTGTTCTGTCTACCACGGCTGGCTTCTTGAG
CCCCACGGAGCCATGTCTCCCCACCAAGACCTGGCTGGCCCTGGTCCGCATCTTCTGGCCGCCAC
CCGATGCTGTTCACTTACCAGCGCTCCCTGCCACGCCAGCCCGTCCCTCTGTGCAGGACACCGTGGCG
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TATGTCAGTGACTGGTGGGAGGAATTTGTGTACCTGCGCTCCCGAAATCCGCTGATGGTGAACAGCAAC
TATTACATGATGGCAGCTCGCGCTGGGAATGCCGTCCATGCCCTCCTCTGTACCGCCACCGCTGAAC
CGCCAGGAGATACCCCGACTTTGCTGATGGGAATGCGCCCTTATGCTCTGCCAGTACGAGAAGATC
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GCTGTCTTCCACCGGGCCGATTCTTCCGCATGGGGACCCACTCCCGAAACAGCTGTTTCCCCGAGA
GCCCTGGAGCAGCAGTTTCAAGAACTCTGGATGATCCCTACCGGCTGCCCCACGAGGAACATCTG
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GAGGCCCTGGAGCGGTGAAGGGCCGCTTTCTTGTGTCAGTGGATGCTGAGCCCGGGGGCTCACCC
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CGAGTGGACAAGCACCAGGCTCTGCTGAAGGCAGCCATGAGCGGGCAGGGAGTTGACCGCCACCTGTTT
GCGCTGTACATCGTGTCCGATTCTCCACCTGCAGTGCCTTCTGACCCAGGTCATTCGGAGCAG
TGGCAGCTGTCCACCAGCCAGATCCCTGTTTCCAGCAATGCATCTGTTTGGAGTCCACAATTACCCGGAC
TATGTTTCTCAGGCGGTGGATTCCGGCCCTGCTGATGACCATGGTTATGGTGTCTTATATCTTCATG
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GGGCAGCACATTGAGGACGCACTGCTGGATGTGGCCTCCCTGTTCCAGGGGGACAGCATTTTAAGCGC
CGGTTCCAGAGGGTCAGGGAAGGAGAAGTCCAGGCACAGGTGTGGATTTCTCTCCGCCAGACTGGGGCC
TCCAAGGCCTCAATGACATCCACCGACTTCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001136052  
**Insert Size:** 2379 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001136052.2</a>
<b>RefSeq Size:</b>	2853 bp
<b>RefSeq ORF:</b>	2379 bp
<b>Locus ID:</b>	126129
<b>UniProt ID:</b>	<a href="#">Q8TCG5</a>
<b>Cytogenetics:</b>	19q13.33
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Adipocytokine signaling pathway, Fatty acid metabolism, PPAR signaling pathway
<b>MW:</b>	89.7 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]

Transcript Variant: This variant (1) differs in the 5' UTR and uses an alternate in-frame splice site in the coding region, compared to variant 3. This results in a shorter protein (isoform 1), compared to isoform 2.