

## Product datasheet for **SC321345**

### **CPT2 (NM\_000098) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CPT2 (NM_000098) Human Untagged Clone
Tag:	Tag Free
Symbol:	CPT2
Synonyms:	CPT1; CPTASE; IIAE4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_000098.1  
 GGGCGGAGAAGTGCCTCAGGAGTCTGACGCAGTGTCTTGGGCGCTAACGGCGGCGGCGG  
 CCTTGTGTTTAGACTCCAGAACTCCCACCTTGCCGCGTTCGCGCCGCGCAGGCTCCCGG  
 GACGATGGTGCCCGCCTGCTGCTGCGCGCCTGGCCCCGGGGCCCCGCGGTTGGTCCGGG  
 AGCCCCCAGTCGGCCCTCAGCGCCGCTCCGGGCCGGCCAGTACCTGCAGCGCAGCAT  
 CGTGCCCACTGCACTACCAGGACAGCCTGCCAGGCTGCCTATTCCCAAACCTGAAGA  
 CACCATTAGGAGATACCTCAGTGCACAGAAGCCTCTCTTGAATGATGGCCAGTTCAGGAA  
 AACAGAACAAATTTGCAAGAGTTTTGAAAATGGGATTGGAAAAGAAGTGCATGAGCAGCT  
 GGTGCTCTGGACAAACAGAATAAACATACAAGCTACATTTTGGGACCCTGGTTTGATAT  
 GTACCTATCTGCTCGAGACTCCGTTGTTCTGAACTTTAATCCATTTATGGCTTTCAATCC  
 TGACCCAAAATCTGAGTATAATGACCAGCTCACCCGGCAACCAACATGACTGTTTCTGC  
 CATCCGGTTTCTGAAGACACTCCGGGCTGGCCTTCTGGAGCCAGAAGTGTCCACTTGAA  
 CCCTGCAAAAAGTGACACTATCACCTTCAAGAGACTCATACGCTTTGTGCCTTCTCTCT  
 GTCCTGGTATGGGGCCTACCTGGTCAATGCGTATCCCCTGGATATGTCCCAGTATTTTCG  
 GCTTTTCAACTCAACTCGTTTACCCAAACCCAGTCGGGATGAACTCTTCACTGATGACAA  
 GGCAGACACCTCCTGGTCTAAGGAAAGGAAATTTTATATCTTTGATGTCTGGATCA  
 AGATGGGAACATTGTGAGCCCTCGGAAATCCAGGCACATCTGAAGTACATTCTCTCAGA  
 CAGCAGCCCCGCCCGAGTTTCCCCTGGCATACTGACCAGTGAGAACCAGACATCTG  
 GGCAGAGCTCAGGCAGAAAGTGTGAGTGTGGCAATGAGGAGAGCCTGAGGAAAGTGG  
 CTCGGCAGTGTCTGCTCTGCCTAGATGACTTCCCCATTAAGGACCTTGTCCACTTGTG  
 CCACAATATGCTGCATGGGGATGGCACAACCGCTGGTTTGATAAATCCTTAACTCAT  
 TATCGCAAGGATGGCTCTACTGCCATCCACTTGGAGCACTTGGGGTGTGGTGTGGC  
 AGTGCTCAGATTTTTAATGAAGTATTTAAAGACAGCACTCAGACCCCTGCCGCTACTCC  
 ACAGAGCCAGCCAGCTACCACTGACTCTACTGTACGGTGCAGAAACTCAACTTCAGCT  
 GACTGATGCCTTAAAGACTGGCATCACAGCTGCTAAGGAAAAGTTTGTGCCACCATGAA  
 AACCTCACTATTGACTGCGTCCAGTTTTCAGAGAGGAGGCAAAGAATTCCTGAAGAAGCA  
 AAAGCTGAGCCCTGACGCAGTTGCCAGCTGGCATTCCAGATGGCCTTCTGCGGAGTA  
 CGGGCAGACAGTGGCCACCTACGAGTCTGTAGCACTGCCGATTCAAGCACGGCCGCAC  
 TGAGACCATCCGCCCGCCTCCGTCTATACAAAGAGGTGCTCTGAGGCCTTTGTGAGGGA  
 GCCCTCCAGGCACAGTGTGGTGTGAGCTTACGAGATGATGGTTGAGTGTCCAAGTACCA  
 TGCCAGCTGACCAAAGAAGCAGCAATGGGCCAGGGCTTTGACCGACACTTGTGTTGCTCT  
 GCGGCATCTGGCAGCAGCCAAAGGGATCATCTTGCCTGAGCTCTACCTGGACCCTGCATA  
 CGGGCAGATAAACCAATGTCTGTCCACGAGCACACTGAGCAGCCAGCAGTGAACCT  
 TGGGGGCTTTGCCCTGTGGTCTCTGATGGCTTTGGTGTGGGTATGCTGTTTCATGACAA  
 CTGGATAGGCTGCAATGTCTCTTCTACCAGGCCGCAATGCCCGGAGTTTCTCCAATG  
 TGTGGAGAAGGCCTTAGAAGACGTGTTTGTGCTTAGAAGGCAAATCCATCAAAGTTA  
 ACTTCTGGGCAGATGAAAAGCTACCATCACTTCTCATCATGAAAAGTGGGAGGCCGGC  
 ATGGTGGCTCATGCCTGTAATCCAGCATTTTGTGAGAGGCTGAGGGGGTGGATCACTTGA  
 GGTGAGGATTTGAGACCAACCTGGCCAACATGGTGAACCTTGTCTCTACTAAAAAATC  
 AAAAATTAGCTGGTGTGGTGGCATGTGCCTATAATCCCAGTACTTGGGAGGTTGAAGC  
 AGAATTGCTTGAACCCAGGAGGTGGAGGTTGAGTGTGAGTGTGATCACCCACTGCACTC  
 CGGCTGGGCGACAGAGCGAGACTGTCTCAAAAAACAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_000098

**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).

<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_000098.1</a> , <a href="#">NP_000089.1</a>
<b>RefSeq Size:</b>	3090 bp
<b>RefSeq ORF:</b>	1977 bp
<b>Locus ID:</b>	1376
<b>UniProt ID:</b>	<a href="#">P23786</a>
<b>Cytogenetics:</b>	1p32.3
<b>Domains:</b>	Carn_acyltransf
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Fatty acid metabolism, PPAR signaling pathway
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a nuclear protein which is transported to the mitochondrial inner membrane. Together with carnitine palmitoyltransferase I, the encoded protein oxidizes long-chain fatty acids in the mitochondria. Defects in this gene are associated with mitochondrial long-chain fatty-acid (LCFA) oxidation disorders. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>