

## Product datasheet for **SC326207**

### **CPT1B (NM\_001145134) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CPT1B (NM_001145134) Human Untagged Clone
Tag:	Tag Free
Symbol:	CPT1B
Synonyms:	CPT1-M; CPT1M; CPTI; CPTI-M; M-CPT1; MCCPT1; MCPT1
Vector:	<u>pCMV6 series</u>



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001145134, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGAAGCTCACCAGGCCGTGGCCTTCCAGTTCACGGTGACCCAGACGGGGTCGAC
TTCCGGCTCAGTCGGGAGGCCCTGAAACACGTCTACCTGTCTGGGATCAACTCCTGGAAG
AAACGCCTGATCCGCATCAAGAAATGGCATCCTCAGGGGCGTGTACCCTGGCAGCCCCACC
AGCTGGCTGGTCGTCATCATGGCAACAGTGGGTTCCCTCTTCTGCAACGTGGACATCTCC
TTGGGGCTGGTCAGTTGCATCCAGAGATGCCTCCCTCAGGGGTGTGGCCCTACCAGACC
CCGCAGACCCGGCACTTCTCAGCATGGCCATCTTCTCCACGGGCGTCTGGGTGACGGGC
ATCTTCTTCTTCCGCCAAACCCTGAAGTGCTTCTCTGCTACCATGGGTGGATGTTTGAG
ATGCATGGCAAGACCAGCAACTTGACCAGGATCTGGGCTTACCTAGAGTCTGTGCGCCCC
TTGTTGGATGATGAGGAATATTACCGCATGGAGTTGCTGGCCAAAGAATTCAGGACAAG
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AGTGACTGGTGGGAAGAGTACATCTACCTTCGAGGCAGGACCCCTCATGGTGAACAGC
AACTATTATGTCATGGACCTTGTGCTCATCAAGAATACAGACGTGCAGGCAGCCCGCTG
GGAAACATCATCCAGCCATGATCATGTATCGCCGTAACCTGGACCGTGAAGAAATCAAG
CCTGTGATGGCACTGGGCATAGTGCCTATGTGCTCCTACCAGATGGAGAGGATGTTCAAC
ACCACTCGGATCCCGGGCAAGGACACAGATGTGCTACAGCACCTCTCAGACAGCCGGCAC
GTGGCTGTCTACCACAAGGGACGCTTCTTCAAGCTGTGGCTCTATGAGGGCGCCCGTCTG
CTCAAGCCTCAGGATCTGGAGATGCAGTTCAGAGGATCCTGGACGACCCCTCCCCACCT
CAGCCTGGGGAGGAGAAGCTGGCAGCCCTCACTGCAGGAGGAAGGGTGGAGTGGGCGCAG
GCACGCCAGGCCCTTTTCTAGCTCTGAAAGAATAAGGCTGCCTTGGAGGCCATCGAGCGT
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AGCCTCAGCCTCTATGGCAAGGCCCTGCTACATGGCAACTGCTACAACAGGTGGTTTGAC
AAATCCTTCACTCTCATTTCCTTCAAGAATGGCCAGTTGGGTCTCAATGCAGAGCATGCG
TGGGCAGATGCTCCCATATTGGGCACCTCTGGGAGTTTGTCTGGGCACAGACAGCTTC
CACCTGGGCTACACGGAGACCGGGCACTGCCTGGGCAAACCGAACCTGCGCTCGCACCT
CCTACACGGCTGCAGTGGGACATTCCAAAACAGTGCCAGGCGGTTCATCGAGAGTCTCTAC
CAGGTGGCCAAGGCGTTGGCAGACGACGTGGAGTTGACTGCTTCCAGTTCCTGCCCTTT
GGCAAAGGCCCTCATCAAGAAGTCCCGGACAGCCCTGATGCCTTTGTGCAGATCGCGCTG
CAGCTGGCTCACTTCCGGACAGGGTAAGTTCTGCTGACCTATGAGGCCTCAATGACC
AGAATGTTCCGGGAGGGACGGACTGAGACTGTGCGTTCCTGTACCAGCGAGTCCACAGCC
TTTGTGCAGGCCATGATGGAGGGTCCACACAAAAGCAGACCTGCGAGATCTCTCCAG
AAGGCTGCTAAGAAGCACCAGAATATGTACCGCCTGGCCATGACCGGGGACGGGATCGAC
AGGCACCTCTTCTGCCTTACTTGGTCTCCAAGTACCTAGGAGTCAAGTCTCCTTTTCTT
GCTGAGGTGCTCTCGAAACCCTGGCGTCTCTCCACCAGCCAGATCCCCCAATCCCAGATC
CGCATGTTTCGACCAGAGCAGCACCCCAATCACCTGGGCGCTGGAGGTGGCTTTGGCCCT
GTAGCAGATGATGGCTATGGAGTTTCTACATGATTGCAGGCGAGAACACGATCTTCTTC
CACATCTCCAGCAAGTTCTCAAGCTCAGAGACGAACGCCAGCGCTTTGGAAACCATC
CGCAAAGCCCTGCTGGACATTGCTGATCTTTTCCAAGTCCCAAGGCCTACAGC

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**Restriction Sites:** Please inquire

**ACCN:** NM\_001145134

**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).

**OTI Annotation:** 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>	<u><a href="#">NM_001145134.1</a></u> , <u><a href="#">NP_001138606.1</a></u>
<b>RefSeq Size:</b>	2595 bp
<b>RefSeq ORF:</b>	2217 bp
<b>Locus ID:</b>	1375
<b>UniProt ID:</b>	<u><a href="#">Q92523</a></u>
<b>Cytogenetics:</b>	22q13.33
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Adipocytokine signaling pathway, Fatty acid metabolism, PPAR signaling pathway
<b>Gene Summary:</b>	<p>The protein encoded by this gene, a member of the carnitine/choline acetyltransferase family, is the rate-controlling enzyme of the long-chain fatty acid beta-oxidation pathway in muscle mitochondria. This enzyme is required for the net transport of long-chain fatty acyl-CoAs from the cytoplasm into the mitochondria. Multiple transcript variants encoding different isoforms have been found for this gene, and read-through transcripts are expressed from the upstream locus that include exons from this gene. [provided by RefSeq, Jun 2009]</p> <p>Transcript Variant: This variant (5) differs in the 5' and 3' UTRs and lacks an in-frame exon in the 5' coding region, compared to variant 1. This results in a shorter protein (isoform c), compared to isoform a.</p>