

Product datasheet for **SC202748**

CPT1A (NM_001031847) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	CPT1A (NM_001031847) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	CPT1A
Synonyms:	CPT1; CPT1-L; L-CPT1
ACCN:	NM_001031847
Insert Size:	226 bp
Insert Sequence:	>SC202748 3'UTR clone of NM_001031847 The sequence shown below is from the reference sequence of NM_001031847. The complete sequence of this clone may contain minor differences, such as SNPs. Blue =Stop Codon Red =Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC ATAAGTCAAGGACCAAGTTCAGATACTGAGACAAAGTGGAAAGTCTCAGCATATGGAAACAAGGCCTT GGAGGAGACCATGGACATCACCAAGTTCATGTGCTGGGCTGGAAAGAAAAGCCTGTTGATTTTCACTTG CTGTGCATTTATTATCCATTCCATTGCCTCAATGCTGAGAACAGTGCCTGACACATAAAAGATGCTCA ATAAATATGTTAAAAGTAA ACGCGT AAGCGGCCGCGGCATCTAGATTGAAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
Restriction Sites:	SgfI-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u>NM_001031847.3</u>



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Summary:

The mitochondrial oxidation of long-chain fatty acids is initiated by the sequential action of carnitine palmitoyltransferase I (which is located in the outer membrane and is detergent-labile) and carnitine palmitoyltransferase II (which is located in the inner membrane and is detergent-stable), together with a carnitine-acylcarnitine translocase. CPT I is the key enzyme in the carnitine-dependent transport across the mitochondrial inner membrane and its deficiency results in a decreased rate of fatty acid beta-oxidation. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Locus ID:

1374

MW:

8.4