

Product datasheet for **TL305236**

CPT1B Human shRNA Plasmid Kit (Locus ID 1375)

Product data:

Product Type:	shRNA Plasmids
Product Name:	CPT1B Human shRNA Plasmid Kit (Locus ID 1375)
Locus ID:	1375
Synonyms:	CPT1-M; CPT1M; CPTI; CPTI-M; M-CPT1; MCCPT1; MCPT1
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	CPT1B - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 1375). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM_001145134 , NM_001145135 , NM_001145136 , NM_001145137 , NM_004377 , NM_152245 , NM_152246 , NM_152247 , NM_152245.1 , NM_152245.2 , NM_004377.1 , NM_004377.2 , NM_004377.3 , NM_152246.1 , NM_152246.2 , NM_001145134.1 , NM_001145135.1 , NM_001145136.1 , NM_001145137.1 , NM_152247.1 , BC142954 , BC143071 , BC150318 , NM_001145134.2 , NM_152246.3 , NM_152245.3 , NM_004377.4
UniProt ID:	Q92523
Summary:	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]
shRNA Design:	These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com . If you need a special design or shRNA sequence, please utilize our custom shRNA service .



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**Performance
Guaranteed:**

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).