

Product datasheet for **KN200485LP**

CPT1A Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control
Donor DNA:	Luciferase-Puro
Symbol:	CPT1A
Locus ID:	1374
Components:	<p>KN200485G1, CPT1A gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)</p> <p>KN200485G2, CPT1A gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)</p> <p>KN200485LPD, donor DNA containing left and right homologous arms and Luciferase-Puro functional cassette.</p> <p>GE100003, scramble sequence in pCas-Guide vector</p>
RefSeq:	NM_001031847 , NM_001876
UniProt ID:	P50416
Synonyms:	CPT1; CPT1-L; L-CPT1
Summary:	<p>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]</p>



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Product images:

