

Product datasheet for **SC105913**

SPTLC1 (BC007085) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPTLC1 (BC007085) Human Untagged Clone
Tag:	Tag Free
Symbol:	SPTLC1
Synonyms:	HSAN; HSAN1; HSN1; LBC1; LCB1; long chain base biosynthesis protein 1; MGC14645; OTTHUMP00000022810; OTTHUMP00000022811; serine-palmitoyl-CoA transferase 1; serine C-palmitoyltransferase; serine palmitoyl; serine palmitoyltransferase subunit 1; SPT1; SPTI
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for BC007085, the custom clone sequence may differ by one or more nucleotides

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ATGGCGACCGCCACGGAGCAGTGGGTTCTGGTGGAGATGGTACAGGCGCTTACGAGGCTCCTGCTTACC  
ATCTTATTTTGAAGGGATTCTGATCCTCTGGATAATCAGACTTCTTTTCTAAGACTTACAAATTACA  
AGAACGATCTGATCTTACAGTCAAGGAAAAAGAAGAACTGATTGAAGAGTGGCAACCAGAACCTTGT  
CCTCCTGTCCCAAAGACCATCCTGCTCTCAACTACAACATCGTTTCAGGCCCTCAAGCCACAAA  
TGGTGAATGGAAGAATGTATAAACTCGCCTCATTTAATTTTCTGGATTGTTGGATAACCCTAGGGT  
TAAGGCAGCAGCTTAGCATCTCTAAAGAAGTATGGCGTGGGACTTGTGGACCCAGAGGATTTTATGGC  
ACATTTGAATGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC007085 unedited GTTCCCATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGGCTAACTATG GCGACCGCCACGGAGCAGTGGGTTCTGGTGGAGATGGTACAGGCGCTTTACGAGGCTCCT GCTTACCATCTTATTTTGGGAAGGATTCTGATCCTCTGGATAATCAGACTCTTTTCTCT AAGACTTACAAATTACAAGAACGATCTGATCTTACAGTCAAGGAAAAAGAAGAACTGATT GAAGAGTGGCAACCAGAACCTCTTGTTCCTCCTGTCCAAAAGACCATCCTGCTCTCAAC TACAACATCGTTTCAGGCCCTCCAAGCCAAAACTGTGGTGAATGGAAAAGAATGTATA AACTTCGCCTCATTTAATTTTCTTGGATTGTTGGATAACCCTAGGGTTAAGGCAGCAGCT TTAGCATCTCTAAAGAAGTATGGCGTGGGACTTGTGGACCCAGAGGATTTTATGGCACA TTTGATGTTTCATTTGGATTTGGAAGACCGCCTGGCAAAATTTATGAAGACAGAAGAAGCC ATTATATACTCATATGGATTTGCCACCATAGCCAGTGCTATTCCTGCTTACTCTAAAAGA GGGGACATTGTTTTGTAGATAGAGCTGCCTGCTTTGCTATTTCAGAAAGGATTACAGGCA TCCCGTAGTGACATTAAGTTATTTAAGCATAATGACATGGCTGACCTCGAGCGACTACTA AAAGAACAAGAGATCGAAGATCAAAGAATCCTCGCAGGGCTCGTGAACCTCGGCGTTTC ATTGTAGTAGAAGGATTGTATATGAATACTGGAATTTGNCTCTTCAGAAATGNNNTAG TAATAACAATAACAAGCAGAATCTTCTGGGAGAAAGCTTCATTTGAGTCTAGAGAGCTGGCG AGAGTACTGACACTTGATCATATGAGATATGACTATCAGGCACTGAGATGCCCTGCTTATT GAGTCT
Restriction Sites:	NotI-NotI
ACCN:	BC007085
Insert Size:	2750 bp
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).
Components:	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).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
RefSeq:	BC007085.1 , AAH07085.1
RefSeq Size:	973 bp
RefSeq ORF:	432 bp
Locus ID:	10558
Cytogenetics:	9q22.31
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Metabolic pathways, Sphingolipid metabolism

Gene Summary:

This gene encodes a member of the class-II pyridoxal-phosphate-dependent aminotransferase family. The encoded protein is the long chain base subunit 1 of serine palmitoyltransferase. Serine palmitoyltransferase converts L-serine and palmitoyl-CoA to 3-oxosphinganine with pyridoxal 5'-phosphate and is the key enzyme in sphingolipid biosynthesis. Mutations in this gene were identified in patients with hereditary sensory neuropathy type 1. Alternatively spliced variants encoding different isoforms have been identified. Pseudogenes of this gene have been defined on chromosomes 1, 6, 10, and 13. [provided by RefSeq, Jul 2013]