

Product datasheet for **SC127529**

Serine Palmitoyltransferase (SPTLC2) (NM_004863) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Serine Palmitoyltransferase (SPTLC2) (NM_004863) Human Untagged Clone
Tag:	Tag Free
Symbol:	Serine Palmitoyltransferase
Synonyms:	hLCB2a; HSN1C; LCB2; LCB2A; NSAN1C; SPT2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC127529 sequence for NM_004863 edited (data generated by NextGen Sequencing)

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ATGCGGCCGGAGCCCGGAGGCTGCTGCTGCCGCCACGGTGCGGGCGAATGGCTGCGTG
GCGAACGGGGAAGTACGGAACGGGTACGTGAGGAGCAGCGCTGCAGCCGACGCCGAGCC
GCCGCCGGCCAGATCCATCATGTTACACAAAATGGAGGACTATATAAAAGACCGTTTAAAT
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CATGCAACAGAAAAGAGAAGAACAAAAGGACTTTGTGTCATTGTATCAAGATTTTGAAAAC
TTTTATACAAGGAATCTGTACATGAGGATAAGAGACAACCTGGAATCGGCCAATCTGTAGT
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TTTGCACGGAATACTGGATCATGTCAAGAAGCAGCCGCAAAAGTCTTGAGGAGTATGGA
GCTGGAGTGTGCAGTACTCGGCAGGAAATTGGAACCTGGACAAGCATGAAGAAC TAGAG
GAGCTTGTAGCAAGTCTTAGGAGTAGAAGCTGCTATGGCGTATGGCATGGGATTTGCA
ACGAATTC AATGAACATTCCTGCTCTTGTGGCAAAGGTTGCCTGATTCTGAGTGATGAA
CTGAACCATGCATCACTGGTTCTGGGAGCCAGACTGTCAGGAGCAACCATTAGAATCTTC
AAACACAACAATATGCAAAGCCTAGAGAAGCTATTGAAAGATGCCATTGTTTATGGTCAG
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CATTCTCATAGTGCAGTGTATGCCACGTCATTGTCACCTCTGTAGTGGAGCAGATCATC
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CTTGATACTGCTTTAAAGGAGATAGATGAAGTTGGGGACCTATTGCAGCTGAAGTATTCC
CGTCATCGGTTGGTACCTCTACTGGACAGGCCCTTTGACGAGACGACGTATGAAGAAACA
GAAGACTGA
    
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Clone variation with respect to NM_004863.3
786 t=>c

5' Read Nucleotide Sequence: >OriGene 5' read for NM_004863 unedited

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GCGGCCGCGAATTCGGCACCCAGCCGCTTTTCCCTTCGCTGCGTGGCCTTGGCCGAGACC
GGTCCTCTGCGGAGAGGGCCCGCCCTCTGTGAAGGCCCGCCGGAATTGGCGGCGGCG
CTGCAGCCATTTCCGTTTTCGGGGAGGTGGGTGGGGTGCAGGAGCGGGACTTGGAGCAGCC
GCCGCCGCTGCCACCGCTACAGAGCCTGCCTTGCCTGGTGTGCCAGGAAGATGCGG
CCGGAGCCCGGAGGCTGCTGCTGCCGCCACGGTGCGGGCGAATGGCTGCGTGGCGAAC
GGGGAAGTCCGGAACGGGTACGTGAGGGAGCAGCGCTGCAGCCGAGCCGAGCCGCCGC
CGGCCAGATCCATTCATGTTACACAAAATGGAGGACTATATAAAAGACCCGTTAATGAAA
CTTTTGA AAAACCAATGCTGGTTGCTGTGCTCACGTATGGGGGTATGGCGTACTCAC
CCTCTTTGGATATCTTTGAGATTCTTGAGGTATTGGAATTGAAAAGTGTCCCCTGGCA
AAAAGAGAGACCANAGGGCTTTGGGCATTGATCAAGATTTGAAACTTTATACAGGATCT
GACTTGAGGTA AAAAGACTGGATCGGCATTTGTAGGGGCTGGACCAGGTTGGCATATG
GAAAGAAGTCTATGATTTACTGGCCTTCG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_004863 unedited TCTTGGCCGCGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTGGACAGAGTC TCCCTCTGTGCGCAAGGCTGGAGTGCAGTGGTGTGATCTTGGCTCATTGCATCCTCTGCC TCTTGGGTTCAAGCAATTCCTGTGCCTCAGCCTCCTGACGTAGCTGGGATTACAGGCATG TGCCACCATGCCCGGCTAATTTTTGTAATTTTAGTAGAGATGAGGTTTCGCCATGTTGGC CAGATTGTTCTCGAACTCCTGGCCTCAAGCAATCTGCCTGCTTCAGCCTCCCAAAGTGTT GGGATTACAGGCATGAGCCACTGCGCCAGCCATGGGCACACATTTTCATGTGGATAAAGT TGAGGCGAGAAAAAGACATGTTTTTCTCCACATGGAAGGTATTTTTTAACTGGTTAAT GTATTAAGATGGCTGCTGGGCACTGAGCATCCACGTGAAGCAAGTAGCAGGGTATCTGTA GGTTCTGGGACTGAAAAAAAAAATCCCTGTAAGTCTTGGCTTAGTAGCCAAAAATAAT ATTTGCTTTTTATACCTCCCATTCACAACCCCTTTGGGCTAAGCTGATTTAAAAACAT TTTTTTTCTAAATGGGGTCTTGCTGTGTTGCCAGGCTACGCCTCAATTCCTGGGGTTAA GCAATCCTCCGCCCTCAGCCTTTCAGTAACTGGGATTGCAAGCTGCATCCGCACCCAGCT CCTAACAAATTTTTTTCCCTCTTATTGAACCAGGGGCTCACTTTTTCCACCAAGCCTG AAAGGGCAGGGTGCAATAATTGGTTCAGTCAACCTTTAACTTCAAGGTTAAAGGGAA TTCTCCACACCGGTGGGAAATACCGCAGGGCCCAACATGGCCGGGTAAATTAATAA AAAATTTTTTAAAAACAGTGCTATTCTTCCCGGGTGGCCTAACATTCATAAACTCACG AG
Restriction Sites:	NotI-NotI
ACCN:	NM_004863
Insert Size:	7180 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:	NM_004863.2 , NP_004854.1
RefSeq Size:	7250 bp
RefSeq ORF:	1689 bp
Locus ID:	9517
UniProt ID:	O15270
Cytogenetics:	14q24.3
Domains:	aminotran_1_2

Protein Pathways: Metabolic pathways, Sphingolipid metabolism

Gene Summary: This gene encodes a long chain base subunit of serine palmitoyltransferase. Serine palmitoyltransferase, which consists of two different subunits, is the key enzyme in sphingolipid biosynthesis. It catalyzes the pyridoxal-5-prime-phosphate-dependent condensation of L-serine and palmitoyl-CoA to 3-oxosphinganine. Mutations in this gene were identified in patients with hereditary sensory neuropathy type I. [provided by RefSeq, Mar 2011]