

Product datasheet for **RC224216**

SPTLC3 (NM_018327) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPTLC3 (NM_018327) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SPTLC3
Synonyms:	C20orf38; dj718P11; dj718P11.1; hLCB2b; LCB2B; LCB 3; LCB3; SPT 3; SPT3; SPTLC2L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC224216 representing NM_018327
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTAACCTGGAGGTGGTGTCTGTTTGCACCGGAACTTCACAATCACAAGAAACAGAGCAATGGCT
 CACAAAGCAGAACTGCACAAAGAATGGAATAGTGAAGGAAGCCAGCAAAATGGGAAGCCACATTTTAA
 TGATAAGCTCATTGTTGAATCGTTTGGGAAGCACCCCTTCATGTTATGGTTTTCACTTACATGGGATAT
 GGAATTGGAACCTGTTTGGCTATCTCAGAGACTTTTTAAGAACTGGGAATAGAAAAATGCAACGCAG
 CTGTGGAACGAAAAGAACAAAAAGATTTTGTGCCACTGTATCAAGACTTTGAAAAATTTTATACAAGAAA
 CCTTTACATGCGAATCAGAGACAACTGGAACCGGCCCATCTGCAGTCCCCAGGGCCTCTGTTTGTATGTG
 ATGGAGAGGGTATCGGACGACTAACTGGACGTTTAAAGTTTACTGGAAGAGTCAAAAGATGTCATCA
 ACATGGGCTCCTATAACTCCTTGGTCTTGACGCAAGTATGATGAGTCTATGAGGACAATAAAGGATGT
 TTTAGAGGTGATGGCACAGGCTGGCCAGCACCAGGCATGAAATGGGCACCTTGGATAAGCACAAGGAG
 TTGGAGGACCTTGTGGCTAAGTTCTGAATGTGGAAGCAGCTATGGTCTTTGGGATGGGATTCGCAACTA
 ACTCAATGAATATCCCAGCATTAGTTGGAAGGGATGCCTCATTTTAAAGTATGAGTTAAACCACACATC
 GCTTGTGCTTGGGGCCGACTCTCAGGTGCAACCATAGAATCTTCAAACACAACAACACACAAAGCCTA
 GAGAAGCTCCTGAGAGATGCTGTATCTATGGCCAGCCTCGAACCCGAGAGCTTGGAAAAAGATTCTCA
 TCCTGGTGGAGGGTGTCTACAGCATGGAAGTTCCATCGTGCATCTGCCCCAGATCATAGCTCTAAAGAA
 GAAATACAAGGCTTACCTCTACATAGATGAAGTCAAGTATTGGGGCCGTGGGCCAACCGCCGGGGT
 GTCACGGAGTTCTTTGGACTAGACCCTCATGAAGTTGATGTGCTCATGGGCACATTACACAAAAGTTTTG
 GAGCTTCAGGAGTTACATAGCTGGAAGGAAGACCTCGTGGATTATTTACGGGTTCACTCGCATAGTGC
 TGTTTATGCTTCATCCATGAGCCACCGATAGCAGAGCAAAATCATCAGATCACTAAAACTTATCATGGGA
 CTGGATGGGACCACTCAAGGGCTGCAGAGAGTACAGCAACTTGGCAAAAAACAAGATACTTCAGACAAA
 GACTGCAGGAAATGGGATTCATTATCTATGGCAATGAGAATGCTTCTGTTGTTCTCTGCTTCTTTATAT
 GCCTGGTAAAGTAGCGGCTTTTGCAGGCATATGCTAGAGAAAAAATTGGAGTGGTGGTGGGATTT
 CCAGCCACTCCCCTCGCAGAAAGCTCGGGCTCGGTTTTGTGTTTCCAGCGGCACATACCCGGGAGATGTTAG
 ACACGGTTTTAGAAGCTCTTGATGAAATGGGTGATCTCTTGAAGTAAATATCCCGGCACAAGAAGTC
 AGCACGCTCTGAGCTCTATGATGAGACGAGCTTTGAAGTCAAGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC224216 representing NM_018327
 Red=Cloning site Green=Tags(s)

MANPGGGAVCNGLHNNHKKQSNQSQRNCTKNGIVKEAQNGKPHFYDKLIVESFEEAPLHVMVFTYMGY
 GIGTLFGYLRDFLRNWGIEKNAEVERKEQKDFVPLYQDFENFYTRNLYMRIRDNWNRPICAPGLFDV
 MERVSDDYNWTFRFTGRVIKDVINMGSYNFLGLAAKYDESMRTIKDVLEVYGTGVASTRHEMGLDKHKE
 LEDLVAKFLNVEAAMVFGMGFATNSMNIPALVGKGLILSDELNHTSLVLGARLSGATIRIFKHNNQSL
 EKLLRDAVIYQQPRTRRAWKKILILVEGVYSMEGSIVHLPQIIALKKKYKAYLYIDEAHSIGAVGPTGRG
 VTEFFGLDPHEVDVLMGTFTKSFASGGYIAGRKDLVDYLRVHSHSAVYASSMSPPIAEQIIRSLKLIMG
 LDGTTQGLQRVQQLAKNTRYFRQLQEMGFIIYGNENASVVPLLLYMPGKVAARHMLEKKIGVVVVG
 PATPLAEARARFCVSAHTREMLDVTLEALDEMGDLLQLKYSRHKKSARPELYDETSFELED

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6207_e04.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_018327

ORF Size: 1656 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:
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_018327.4](#)

RefSeq Size: 3855 bp

RefSeq ORF: 1659 bp

Locus ID: 55304

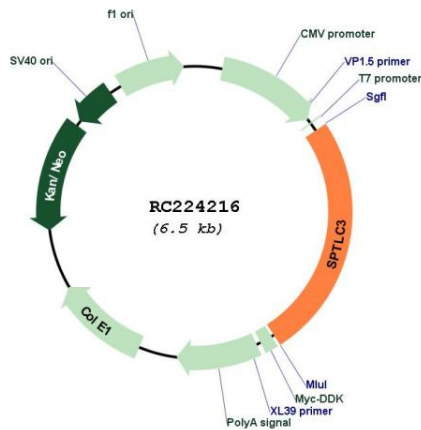
UniProt ID: [Q9NUV7](#)

Cytogenetics: 20p12.1

MW: 61.9 kDa

Gene Summary: This gene encodes a subunit of the serine palmitoyltransferase complex which catalyzes the rate-limiting step in sphingolipid biosynthesis. This subunit metabolizes lauroyl- and myristoyl-CoA and generates C14 and C16-sphingoid bases. [provided by RefSeq, Mar 2017]

Product images:



Circular map for RC224216