

## Product datasheet for **MC218920**

### **Sptlc2 (NM\_011479) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Sptlc2 (NM_011479) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sptlc2
Synonyms:	LCB; LCB2; LCB2a; Sp; Spt2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**Fully Sequenced ORF:** >MC218920 representing NM\_011479  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGGCCGGAGCCCGGAGGCTGCTGCTGCCGCCGCCGATGCGGGCGAACGGCTGCGTCAAGAACGGGG  
 AAGTGAGGAACGGGTACTTGAGGAGCAGCACCCGCCACCGTCGCGGCTGCCGGCCAGATTCATCATGTAAC  
 AGAAAAATGGAGGACTGTACAAAAGACCGTTTAATGAAGCTTTTGAAGAAACACCCATGCTGGTTGCTGTG  
 CTCACATATGTGGGCTATGGCGTACTCACCTCTTTGGATATCTTCGAGATTTCTTGAGGCATTGGAGAA  
 TTGAAAAGTGCCACCATGCAACAGAAAGAGAAGAAACAAAAGGACTTTGTGTCCTTGATCAGGATTTTGA  
 AAATTCTATAACAAGGAACCTCTACATGAGAATCAGAGACAACCTGGAATCGACCTATCTGTAGTGTGCC  
 GGAGCCAAGGTGGATATCATGGAGAGAAAATCTCATGACTATAACTGGTCATTCAAGTACACAGGGAATA  
 TAATTAAGGTGTAATAAACATGGGTTCTACAACATCTTGGATTTGCGAGGAACACTGGATCATGTCA  
 GGAAGCAGCTGCTGAAGTCTCAAGGAGTATGGAGCAGGGGTGTCAGCAGCTCGTCAGGAAATTGGAAC  
 CTGACAAAGCATGAAGAACTAGAGAAAATGGTAGCAAGGTTCTTAGGTGTGGAAGCTGCTATGACCTATG  
 GCATGGGATTTGCAACAATTCAATGAACATTCCTGCTCTTGTGGCAAAGGTTGCCGATTCTGAGTGA  
 TGAGCTGAACCATGCGTCACTGGTTCTAGGAGCCAGACTGTCAGGAGCAACCATTCGAATCTTCAAACAC  
 ACAAATATGCAAAGCTTAGAGAAGCTTTTAAAAGATGCCATTGTTATGGTCAGCCTCGGACAAGAAGAC  
 CCTGGAAGAAAATCTTAATCCTTGTGGAAGGCATATATAGTATGGAGGGGTCTATTGTTCCGCTTCTGA  
 AGTGATTGCTCTCAAGAAGAAAACAAGGCATACTTGTATCTGGATGAGGCTCACAGCATTGGGGCTCTT  
 GGCCCTTCAGGGCGAGGCGTGGTAGATTACTTTGGCCTGGATCCTGAGGATGTAGATGTTATGATGGGAA  
 CATTCAAAAAGAGCTTCGGTGCTTCAGGAGGATACATCGGAGGCAAGAAGGAGCTGATAGACTACCTGCC  
 CACACATTCTCACAGTGTGTGTATGCCACGTCGATGTCACCGCCTGTGATGGAACAGATTATCACCTCC  
 ATGAAGTGCATCATGGGGCAGGATGGCACCAGTCTTGGCAAAGAATGTATACAGCAGTTGGCTGAGAACA  
 CCAGGTATTTAGGAGACGCCTGAAGGAAATGGGGTTCATCATCTATGGCAATGAAGACTCCCCGGTGGT  
 GCCTTTGATGCTCTACATGCCGGCCAAAATGGCGCCTTTGGAAGAGAGATGCTGAAGCGGAACATTGGT  
 GTAGTTGTGGTGGGATTTCTGCTACCCCGATCATTGAGTCCAGAGCCAGATTTTGCCTGTCAGCAGCTC  
 ATACCAAAGAAAATACTTGACTGCTTTGAAGGAGATAGATGAAGTTGGGGATCTGCTGCAGCTAAAGTA  
 CTCTCGCCACCGGCTGGTGCCTCTACTGGACAGGCCCTTTGATGAGACTACCTATGAAGAGACAGAAGAC  
 TGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_011479
- Insert Size:** 1683 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:**

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\\_011479.4](#), [NP\\_035609.1](#)

**RefSeq Size:** 6725 bp

**RefSeq ORF:** 1683 bp

**Locus ID:** 20773

**UniProt ID:** [P97363](#)

**Cytogenetics:** 12 D2

**Gene Summary:** This gene encodes a long chain base subunit of serine palmitoyltransferase. The enzyme, serine palmitoyltransferase, consists of two different subunits, and 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. A mutant allele of this gene in mice is used as a model for the human disease 'Susceptibility to Psoriasis 1'. Mutations in the human gene are associated with hereditary sensory neuropathy type I. [provided by RefSeq, Sep 2015]