

## Product datasheet for **MC219046**

### **Sptlc3 (NM\_175467) Mouse Untagged Clone**

#### **Product data:**

|                    |   |
|--------------------|---|
| Product Type:      | Expression Plasmids                     |
| Product Name:      | Sptlc3 (NM_175467) Mouse Untagged Clone |
| Tag:               | Tag Free                                |
| Symbol:            | Sptlc3                                  |
| Synonyms:          | C130053K05Rik                           |
| Vector:            | pCMV6-Entry (PS100001)                  |
| E. coli Selection: | Kanamycin (25 ug/mL)                    |
| Cell Selection:    | Neomycin                                |



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**Fully Sequenced ORF:** >MC219046 representing NM\_175467  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGGCCAATCTGAACGACAGTGTCTTACAAATGGGACTCTACACAATCCTAAGACCCAGCAAGGAAAA  
GGCAAAGCACTGGTTGTGTGAAAAATGGAATCTCAAAGGAAGCCAGCAAAATAGGAAGGCATATGCTGA  
GGATAAGCCAGTCTTTGAGCCCTACCAGGAAGCACACTTTATGTCTACGTTTTAACTTACATGGGATAT  
GGAATTGGAATCCTATTCGGCTATCTCAGAGACTTTATGAGAACTGGGGAATTGAAAAATGCAATGCAG  
CTGTAGAGCGAGAAGAACAAGAACTTTGTGCCGCTGTATCAGGACTTTGAGAACTTTTAAAGAGGAA  
CCTTTACATGAGAATCAGAGACAGCTGGAGTCACACGGTCTGCAGTGCCCGAGAGCCTTACATGAATGTC  
ATGGAGAAAGTGACTGATGACTATAACTGGACATTCAGGCATACTGGAAAAGTTATAGAAAATATCATCA  
ACATGGCCTCCTACAACCTACCTGGGCTTGCAGGGAAATATGATGATTGATGGTGAAGATTAAGGATAC  
TTTAGAAAAGTATGGTGTAGGTGTGCCAGCACCAGAAAATGAAATGGGTACCTTGGATATACACAAGGAG  
TTGGAGGATCTCATGGCTGAGTTCCTGAATGTAGAAGCAGTGATGTCTTTTGGAAATGGGATTCGCAACCA  
ACGCAATGAATATCCCTGTATTTGTTGGAAAGGGATGCCTCATTTTAAAGTGATGAGTTTAAACCACACTTC  
AGTCATCCTAGGATCTCGACTCTCAGGTGCAGTCATAAGACCCTTCAAACACAATAATGCAGAAAACCTA  
GAGAAGCTCCTGAGAGAAGCTATCATCCGTGGCCAGCCTGGCACAGGGAGAGCTTGGAAAAAGATTCTCA  
TCGTGGTAGAGGGCGTCTACAGCATGGAAGGTTCCATTGTGAACCTTGCCAGATAGTGGCTCTAAAGAA  
GAAATACAAGGCTTACCTGTACATTGATGAAGCTCACAGTATTGGCTGTACAGGCCCCACGGGACGAGGC  
GTCAGAGAGTTATTTGGACTGGACCCTGAAGATTTGACGTATACATGGGTACATTACCAAGAGCTTCT  
CGGGCTCAGGAGGATATATAGGCGGGAAAAAGGAAATTTGGATTATTTACGGATGCAGTCACATAGCAC  
TACTTATGCTACATCCATGAGTCCCGTAGTAGCAGCACAACCTCATCAGATCATTGAAGATAACTATGGGA  
TATGAGGGGAACATTGGAGGTATGGAGAGAATACAGCAACTTAAGGAAAAACATAAAATACTTCCGACGGC  
GACTGAAAGAGATGGGATTCATCATCTATGGCAATGATTTCTCTCCGGTATCCCTGTGCTCCTCTATAT  
GCCCGCTAAAGTGTCTGCTTTCAGCAGATTTTGTCTTAAGAAAAAGATCTCAGTGGTGGTTGTTGGATTT  
CCAGCTACTTCCCTGCCAGAAGGTCGGGCCAGGTTAGCATGTCTCTGCACATACTCGGGAGATGTTAG  
ACACAGTTTTGGAAGTCGTTGATGAGCTCGGTGATCTCCTGAACGTGAAATTTCCCACTCAAGAAATC  
AGGGCGTGCTATACTCTACAATAAGGAGGGTTTTGACAATGAAGCAAGCTTTGAAGAGATGCACTCTGAA  
CCGGAAGCCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_175467

**Insert Size:** 1692 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\\_175467.3](#), [NP\\_780676.1](#)

**RefSeq Size:** 2759 bp

**RefSeq ORF:** 1692 bp

**Locus ID:** 228677

**UniProt ID:** [Q8BG54](#)

**Cytogenetics:** 2 F3

**Gene Summary:** Serine palmitoyltransferase (SPT). The heterodimer formed with LCB1/SPTLC1 constitutes the catalytic core. The composition of the serine palmitoyltransferase (SPT) complex determines the substrate preference. SPT complexes containing SPTLC3 generate shorter chain sphingoid bases compared to complexes containing SPTLC2. The SPTLC1-SPTLC3-SPTSSA isozyme uses C12-CoA, C14-CoA and C16-CoA as substrates, with a slight preference for C14-CoA. On the other hand, the SPTLC1-SPTLC3-SPTSSB has the ability to use a broader range of acyl-CoAs without apparent preference.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same protein.