

Product datasheet for **RN208089**

Sptlc2 (NM_001037097) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sptlc2 (NM_001037097) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Sptlc2
Synonyms:	Pomt2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN208089 representing NM_001037097
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGGCCGAGCCAGGAGGCTGCTGCTGCCGCCCGATGCGGGCGAACGGCTGCGTGAAAAACGGGG
AAGTGAGGAACGGGTACTTGAGGAGCAGCACCGCCACCATCGCGGCTGCGGGCCAGATTCATCATATTAC
AGAAAATGGAGGACTGTACAAAAGACCGTTTAATGAAGCTTTGAAGAAACACCCATGCTAGTTGCTGTG
CTCACATACGTGGGCTATGGTGTACTCACCTCTTTGGATATCTTCGAGATTTCTTGAGGCATTGGAGAA
TTGAAAAGTGCCACCATGCAACAGAAAGAGAAGAAACAAAAGGACTTTGTGTCCTTGATCAGGATTTTGA
AACTTCTATACAAGGAACCTCTACATGAGGATCAGAGACAACTGGAATCGACCCATCTGTAGTGTGCC
GGAGCCAAAGTGGATATCATGGAGAGACAGTCTCATGACTACAACCTGGTCATTCAAGTACACAGGGAATA
TAATTAAGGTGTAATAAACATGGGTTCTACAACATCTTGGATTTGCGAGGAACACTGGATCATGTCA
GGAAGCAGCTGCTGAAGTTCTCAAGACATATGGAGCAGGGGTGTGCAGCACTCGCCAGGAAATTGGGAAC
CTGGACAAGCACGAGGAACTAGAGAAACTGGTAGCAAGGTTCTTGGGTGTGGAAGCTGCTTTGACCTATG
GCATGGGATTTGCGACAAATCAATGAACATTCCTGCTCTTGTGGCAAAGGTTGCCGATTCTGAGTGA
TGAGCTGAACCATGCATCCTTGGTTCTAGGAGCCAGACTGTGCGGAGCAACCATTGCAATCTTCAAACAC
ACAATATGCAAAGCTTGGAGAAGCTTTAAAAGATGCCATTGTTATGGTCAGCCTCGGACAAGAAGGC
CCTGGAAGAAAATCCTAATCCTCGTGGAAGGCATATATAGCATGGAAGGGTCTATTGTTGCGCTTCTCTGA
AGTGATTGCTCTCAAGAAGAAAACAAGGCATACTTGTATCTGGATGAGGCTCACAGCATTGGGGCTCTT
GGCCCTTCAGGGCGTGGTGTAGTAGACTACTTTGGCCTGGATCCTGAGGATGTAGATGTTATGATGGGAA
CATTACAAAAGAGCTTCGGTGCTTCAGGAGGATACATTGGCGGCAAGAAGGAGCTGATAGACTACCTACG
CACACATTCTCACAGTGCTGTGTACGCCACGTCATGTACCACCTGTGATGGAGCAGATCATCACCTCC
ATGAAGTGCATCATGGGCGAGGATGGCACCAGTCTTGGCAAAGAATGTATCCAGCAGTTGGCTGAGAAC
CCAGGTATTTAGGAGACGCCTGAAGGAAATGGGGTTCATCATCTATGGCAATGAAGACTCCCCGGTGGT
GCCTTTGATGCTCTACATGCCGGCCAAAATGGCGCCTTTGGGAGAGAGATGCTGAAGCGGAACATTGGT
GTAGTTGTTGGTGGGATTTCTGCTACCCCAATCATTGAGTCCAGAGCCAGATTTTGCCTGTCAGCGGCTC
ATACCAAAGAAATACTTGACACGGCTTTGAAGGAAATAGATGAAGTTGGGGATCTGCTGCAACTGAAGTA
CTCCCGCCACCGCGCTGCCTCTGCTGGACAGGCCCTTTGACGAGACTACCTATGAGGAGACAGAAGAC
TGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001037097

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:	<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:	<u>NM_001037097.1</u> , <u>NP_001032174.1</u>
RefSeq Size:	3742 bp
RefSeq ORF:	1683 bp
Locus ID:	366697
UniProt ID:	<u>Q3B7D2</u>
Cytogenetics:	6q31
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. The SPTLC1-SPTLC2-SPTSSA complex shows a strong preference for C16-CoA substrate, while the SPTLC1-SPTLC2-SPTSSB complex displays a preference for C18-CoA substrate (By similarity). Plays an important role in de novo sphingolipid biosynthesis which is crucial for adipogenesis (By similarity).[UniProtKB/Swiss-Prot Function]