

Product datasheet for **MR208877**

Sptlc2 (NM_011479) Mouse Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>MR208877 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCGGCCGGAGCCCGGAGGCTGCTGCTGCCGCCGCCGATGCGGGCGAACGGCTGCGTCAAGAACGGG
 AAGTGAGGAACGGGTACTTGAGGAGCAGCACCCACCCTGCGGCTGCCGGCCAGATTCATCATGTAAC
 AGAAAATGGAGGACTGTACAAAAGACCGTTTAATGAAGCTTTGAAGAAACACCCATGCTGGTTGCTGTG
 CTCACATATGTGGGCTATGGCGTACTCACCTCTTTGGATATCTTCGAGATTTCTTGAGGCATTGGAGAA
 TTGAAAAGTGCCACCATGCAACAGAAAGAGAAGAAACAAAAGGACTTTGTGTCCTTGATCAGGATTTTGA
 AAATTCTATAACAAGGAACCTCTACATGAGAATCAGAGACAACCTGGAATCGACCTATCTGTAGTGTGCC
 GGACCAAGGTGGATATCATGGAGAGAAAATCTCATGACTATAACTGGTCATTCAAGTACACAGGGAATA
 TAATTAAGGTGTAATAAACATGGGTTCTACAACCTATCTGGATTTGCGAGGAACACTGGATCATGTCA
 GGAAGCAGCTGCTGAAGTCTCAAGGAGTATGGAGCAGGGGTGTCAGCAGCTCGTCAGGAAATTGGAAC
 CTGACAAAGCATGAAGAACTAGAGAAAATGGTAGCAAGGTTCTTAGTGTGGAAGCTGCTATGACCTATG
 GCATGGGATTTGCAACAAATTAATGAACATTCCTGCTCTTGTGGCAAAGGTTGCCGATTCTGAGTGA
 TGAGCTGAACCATGCGTCACTGGTTCTAGGAGCCAGACTGTCAGGAGCAACCATTCGAATCTTCAAACAC
 AACAAATGCAAAGCTTAGAGAAGCTTTAAAAGATGCCATTGTTATGGTCAGCCTCGGACAAGAAGAC
 CCTGGAAGAAAATCTTAATCCTTGTGGAAGGCATATAGTATGGAGGGGTCTATTGTTCCGCTTCTCTGA
 AGTGATTGCTCTCAAGAAGAAAACAAGGCATACTTGTATCTGGATGAGGCTCACAGCATTGGGGCTCTT
 GGCCCTTCAGGGCGAGGCGTGGTAGATTACTTTGGCCTGGATCCTGAGGATGTAGATGTTATGATGGGAA
 CATTACAAAAGAGCTTCGGTGTTCAGGAGGATACATCGGAGGCAAGAAGGAGCTGATAGACTACCTGCG
 CACACATTCTCACAGTGTGTATGCCACGTGATGTCACCCCTGTGATGGAACAGATTATCACCTCC
 ATGAAGTGCATCATGGGGCAGGATGGCACCAGTCTTGGCAAAGAATGTATACAGCAGTTGGCTGAGAACA
 CCAGGTATTTAGGAGACGCCTGAAGGAAATGGGGTTCATCATCTATGGCAATGAAGACTCCCCGGTGGT
 GCCTTTGATGCTCTACATGCCGGCCAAAATGGCGCCTTTGGAAGAGAGATGCTGAAGCGGAACATTGGT
 GTAGTTGTGGTGGGATTTCTGCTACCCCGATCATTGAGTCCAGAGCCAGATTTTGCCTGTCAGCAGCTC
 ATACCAAAGAAAATACTTGACTGCTTTGAAGGAGATAGATGAAGTTGGGGATCTGCTGCAGCTAAAGTA
 CTCTCGCCACCGCTGGTGCCTCTACTGGACAGGCCCTTTGATGAGACTACCTATGAAGAGACAGAAGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208877 protein sequence
 Red=Cloning site Green=Tags(s)

MRPEPGGCCRRPMPRANGCVKNGEVRNGYLRSSATVAAAAGQIHHVTENGGLYKRPFNFAFEETPMLVAV
 LTYVGYGVLTFLGYLRDFLRHWRIEKCHHATEREEQKDFVSLYQDFENFYTRNL YMRIRDNWNRPICSV
 P GAKVDIMERKSHDYNWSFKYTGNI IKGVINMGSYNYLGFARNTGSCQEAEEVLKEYGAGVCSTRQEIGN
 LDKHEELEKLVARFLGVEAAMTYGMGFATNSMNIPALVGKGLILSDELNHASLVLGARLSGATIRIFKH
 NNMQSLEKLLKDAIVYQPRTRRPWKKILILVEGIYSMEGSIVRLPEVIALKKYKAYLYLDEAHSIGAL
 GPSGRGVVDYFGLDPEDVDVMMGTFTKSFASGGYIGGKELIDYLRTHSHSAVYATSMSPVMEQIITS
 MKCIMGQDGTSLGKECIQQLAENTRYFRRLKEMGFIIYGNEDSPVPLMLYMPAKIGAFGREMLKRNIG
 VVVVGFAPPIIESRARFCLSAHTKEILDALKEIDEVDLLQLKYSRHRLVPLDRPFDETTYEETED

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_011479

ORF Size: 1683 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_011479.4](#), [NP_035609.1](#)

RefSeq Size: 3754 bp

RefSeq ORF: 1683 bp

Locus ID: 20773

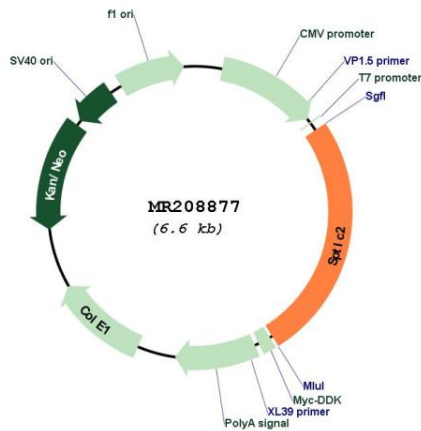
UniProt ID: [P97363](#)

Cytogenetics: 12 D2

MW: 63 kDa

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]

Product images:



Circular map for MR208877