

Product datasheet for **MR207578**

Sptlc1 (NM_009269) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sptlc1 (NM_009269) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sptlc1
Synonyms:	AW552086; C77762; E030036H05; Lcb1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207578 representing NM_009269
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGACAGTGGCGGAGCAGTGGGTGCTGGTGGAGATGGTGCAGCGCTGTACGAGGCTCCAGCATAACC
 ATCTTATTTTGAAGGAATCCTAATACTTTGGATAATCAGACTCGTTTTCTCTAAAACCTACAAGTTGCA
 GGAGCGTTCTGATCTTACAGCCAAGGAAAAGGAAGAACTGATTGAAGAGTGGCAGCCAGAGCCCTCGTC
 CCTCCAGTCTCCAAGAACCACCTGCTCTCAACTACAACATCGTGTCCGGCCCTCAACCCACAACATCG
 TGGTGAATGGAAAAGAGTGTGTCAACTTTCCTCCTTAACTTCTTGGGCTGCTGGCAACCCTCGAGT
 TAAGGCCACAGCTTTTTCATCTTTAAAGAAGTACGGAGTGGTACCTGTGGTCTCGAGGGTTCTATGGC
 ACATTTGATGTCCATCTGGATTTAGAAGAGCGCTGGCAAAGTTTATGAAGACCGAAGAAGCCATCATT
 ACTCGTATGGCTTCTCCACCATAGCCAGTGCCATTCTGCGTACTCTAAGAGAGGGGACATCATCTTTGT
 GGACAGTGGCCCTGCTTTGCTATCCAGAAAGGATTACAGGCATCAAGAAGTGACATTAAGTTATTTAAG
 CATAATGATGTGGCTGACCTGGAGCGACTGCTAAAAGAACAAGAGATTGAAGATCAAAGAATCCTCGCA
 AGGCCCGTGTGACTCGGCGGTTTCATCGTGGTGGAGGGCTGTACATGAACACTGGAACCATCTGTCCCT
 TCCAGAACTGGTTAAATTAATAATAAATAAAGCAAGAATATTCCTGGAGGAGAGCCTGTCTTTGGA
 GTCCTTGGGGAGCACGGGCGAGGAGTACCAGCACTATGGGATCAGTATTGATGATATTGACCTTATCA
 GTGCTAACATGGAGAATGCACCTCGCTTCTGTGGGGGCTTCTGCTGTGGCCGCTCCTTCGTGGTTGACCA
 TCAGCGGCTCTCCGGTCAAGGATACTGCTTTTCTGCTTCGTTACCTCCCTGCTAGCTGCTGCTGCCATT
 GAGGCCCTCAACATCATGGAAGAGAATCCAGATATTTTGCAGTTTTAAAGAAAAATGCCAGAACATCC
 ATAAGTCTCTACAAGGTGTTTCGGGTTTAAAAGTGGTGGGAGAGTCCCTTCTCCGGCGCTTCCATCCA
 GCTGGAAGAGAGCACGGGCTCTCGGAGAAAGATGTGAAGCTGCTCAAGCAATCGTAGATCAGTGCATG
 GATAAGGGCATCGCATTGACTCAGGCACGGTACTTGGACAAGGAAGAGAAGTGCCTTCTCCTCCAAGCA
 TCAGGGTTGTGGTCACTGTGGAGCAGACGGAGGAAGAGCTACAGAGGGCTGCATCCACCATCAGGGAGGC
 GGCCAGGCTGTGCTGTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207578 representing NM_009269
 Red=Cloning site Green=Tags(s)

MATVAEQWVLVEMVQALYEAPAYHLILEGILILWIIRLVFSKTYKLQERSDLTAKEKEELIEEWQPEPLV
 PPVSKNHPALNYNIVSGPPTHNIIVVNGKECVNFASFNGLLLANPRVKATAFSSLKKYGVGTCGPRGFY
 TFDVHLDLEERLAKFMKTEEAIIYSYGFSTIASAIPAYSKRGDIIFVDSAACFAIQKGLQASRSDIKL
 HNDVADLERLLKEQIEIQKPNRKRARVTRRFIVVEGLYMNTGTICPLPELVKLYKYKARIFLEESLSFG
 VLGEHGRGVTEHYGISIDDIDLISANMENALASVGGFCCGRSFVVDHQRLSGQGYCFASLPLLLAAAAI
 EALNIMEENPDIFAVLKKKQNIHKSLLQVSGLVVGGESLSPALHLQLEESTGSREKDVKLLQAIVDQCM
 DKGIALTQARYLDKEEKCLPPPSIRVVVTVEQTEEELQRAASTIREAAQAVLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9017_a11.zip

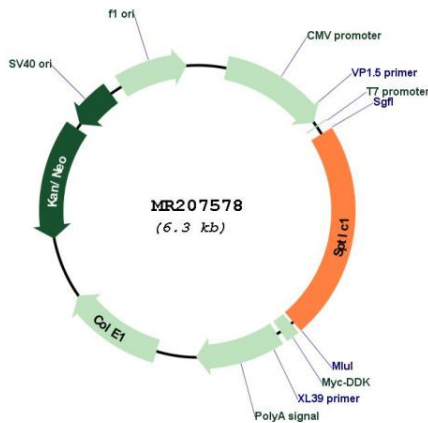
Restriction Sites:

Sgfl-Mlul

MW: 53 kDa

Gene Summary: Serine palmitoyltransferase (SPT) (PubMed:28100772). The heterodimer formed with SPTLC2 or SPTLC3 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-SPTLC3-SPTSSA isozyme uses both C14-CoA and C16-CoA as substrates. The SPTLC1-SPTLC2-SPTSSB complex displays a strong preference for C18-CoA substrate, while the SPTLC1-SPTLC3-SPTSSB isozyme has the ability to use a broader range of acyl-CoAs (By similarity). Required for adipocyte cell viability and metabolic homeostasis (PubMed:28100772).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207578