

Product datasheet for **MG206971**

Sptlc3 (BC094496) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sptlc3 (BC094496) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sptlc3
Synonyms:	RP23-347C2.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206971 representing BC094496 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAATCTGAACGACAGTGCTGTTACAAATGGGACTCTACACAATCCTAAGACCCAGCAAGGAAAA
GGCAAAGCACTGGTTGTGTGAAAAATGGAATCTCAAAGGAAGCCAGCAAAATAGGAAGGCATATGCTGA
GGATAAGCCAGTCTTTGAGCCCTACCAGGAAGCACCACCTTTATGTCTACGTTTTAACTTACATGGGATAT
GGAATTGGAATCCTATTCGGCTATCTCAGAGACTTTATGAGAACTGGGGAATTGAAAAATGCAATGCAG
CTGTAGAGCGAGAAGAACAAGAACTTTGTGCCGCTGTATCAGGACTTTGAGAACTTTATAAGAGGAA
CCTTTACATGAGAATCAGAGACAGCTGGAGTCACACGGTCTGCAGTGCCCGAGAGCCTTACATGAATGTC
ATGGAGAAAGTGACTGATGACTATAACTGGACATTCAGGCATACTGGAAAAGTTATAGAAAAATATCATCA
ACATGGCCTCCTACAACCTACCTTGGGCTTGCGAGGAAATATGATGATTGATGGTGAAGTTAAGGATAC
TTTAGAAAAGTATGGTGTAGGTGTGGCCAGCACCAGAAATGAAATGGGTACCTTGGATATACACAAGGAG
TTGGAGGATCTCATGGCTGAGTTCTTGAATGTAGAAGCAGTGTATGCTTTTGAATGGGATTGCAACCA
ACGCAATGAATATCCCTGATTTTGTGGAAAGGGATGCCTCATTTAAGTGTAGTTTAAACCACACTTC
AGTCATCCTAGGATCTCGACTCTCAGGTGCAGTCATAAGACCCTTCAAACACAATAATGCAGAAAACTCA
GAGAAGCTCCTGAGAGAAGCTATCATCCGTGGCCAGCCTGGCACAGGGAGAGCTTGAAAAAGATTCTCA
TCGTGGTAGAGGGCGTCTACAGCATGGAAGGTTCCATTGTGAACCTTGCCAGATAGTGGCTCTAAAGAA
GAAATACAAGGCTTACCTGTACATTGATGAAGCTCACAGTATTGGCTGTACAGGCCCCACGGGACGAGGC
GTCAGAGAGTTATTTGGACTGGACCCTGAAGATATTGACGTATACATGGGTACATTACCAAGAGCTTCT
CGGGCTCAGGAGGATATATAGGCGGAAAAAGGAAATTGTGGATTATTTACGGATGCAGTCACATAGCAC
TACTTATGCTACATCCATGAGTCCCGTAGTAGCAGCACAACCTCATCAGATCATTGAAGATAACTATGGAT
ATGAGGGGAACATTGGAGGTATGGAGAGAATACAGCAACTTAAGGAAAAACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206971 representing BC094496
 Red=Cloning site Green=Tags(s)

MANLNDSAVTNGTLHNPKTQQGKRQSTGCVKNGISKEAQQNRKAYAEDKPVFEPYQEAPLYVYVLTVMGY
 GIGILFGYLRDFMRNWGIEKCNAAVEREEQKDFVPLYQDFENFYKRNL YMRIRDSWSHTVCSAPEPYMNV
 MEKVTDYDDYNWTFRHTGKVIENIINMASYNLGLAGKYDDSMVRVKDTLEKYGVGVASTRNEMGTLDIHKE
 LEDLMAEFLNVEAVMSFGMGFATNAMNIPVVFVGKGLILSDEFNHTSVILGSRLSGAVIRPFKHNAENL
 EKLLREAIIRGQPGTGRAWKKILIVVEGVYSMEGSIVNLAQIVALKKKYKAYLYIDEAHSIGCTGPTGRG
 VRELFGLDPEDIDVYMGFTKSFSGSGGYIGGKKEIVDYLRMQSHSTTYATSMSPVVAACLIRSLKITMD
 MRGTLEWREYSNLRKT

TRTRPLE - GFP Tag - V

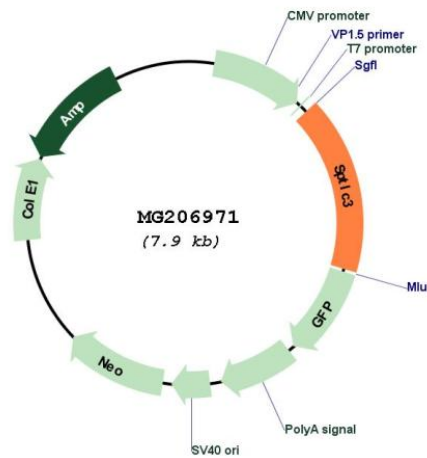
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

BC094496

ORF Size:	1313 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:	<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:	BC094496 , AAH94496
RefSeq Size:	1998 bp
RefSeq ORF:	1313 bp
Locus ID:	228677
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]