

## Product datasheet for **RN208109**

### Sptssa (NM\_001047743) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Sptssa (NM\_001047743) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Sptssa  
**Synonyms:** Ssspta  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN208109 representing NM\_001047743  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

**ATGGCGGGCATGGCGTTGGCGCGAGCATGGAAGCAGATGTCTGGTTCTACTACCACTACTTGCTGGTCA**  
**CTGCGCTCTACATGCTGGAGCCCTGGGAGCGAACCCTGTTCAATTCGATGCTGGTTCTGTGGTGGGGAT**  
**GGCACTGTACACCGGCTACGTCTTCATGCCCCAGCACATCATGGCAATACTGCATTACTTTGAAATTGTA**  
**CAGTGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI  
**ACCN:** NM\_001047743  
**Insert Size:** 216 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).



[View online »](#)

**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\\_001047743.1](#), [NP\\_001041208.1](#)

**RefSeq Size:** 1276 bp

**RefSeq ORF:** 216 bp

**Locus ID:** 500651

**UniProt ID:** [Q4G019](#)

**Cytogenetics:** 6q23

**Gene Summary:** Stimulates the activity of serine palmitoyltransferase (SPT). 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, with a slight preference for C14-CoA. Plays a role in MBOAT7 location to mitochondria-associated membranes (MAMs), may be involved in fatty acid remodeling phosphatidylinositol (PI). [UniProtKB/Swiss-Prot Function]