

Product datasheet for MG200062

Sptssa (NM_134054) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Sptssa (NM_134054) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Sptssa

Synonyms: 1110002B05Rik; AA407909; AA409588; AU041967; Ssspta

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG200062 representing NM_134054

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCGCTGGCGCGAGCATGGAAGCAGATGTCCTGGTTCTACTACCAGTACCTGCTGGTCACTGCGCTCTACACTGCTGGAGCCCTGGGAGCCGAACCGTGTTCAATTCGATGCTGGTTTCCGTGGTGGGGATGGCCCTGTA

CACTGGCTACGTCTTCATGCCCCAGCACATCATGGCTATTCTGCATTACTTTGAAATTGTACAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200062 representing NM_134054

Red=Cloning site Green=Tags(s)

MALARAWKQMSWFYYQYLLVTALYMLEPWERTVFNSMLVSVVGMALYTGYVFMPQHIMAILHYFEIVQ

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



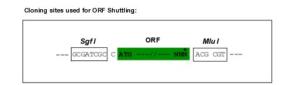
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

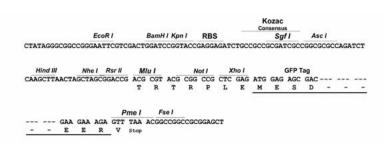
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

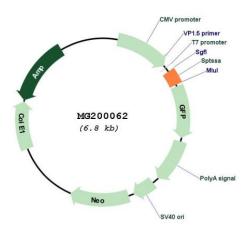


Cloning Scheme:





Plasmid Map:



ACCN: NM_134054

ORF Size: 213 bp

Sptssa (NM_134054) Mouse Tagged ORF Clone - MG200062

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: <u>NM 134054.1</u>

RefSeq Size: 1363 bp
RefSeq ORF: 216 bp
Locus ID: 104725
UniProt ID: Q8R207
Cytogenetics: 12 C1

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 me involved in fatty acid remodeling phosphatidylinositol (PI).

[UniProtKB/Swiss-Prot Function]