

Product datasheet for **RG209747**

SPTSSA (NM_138288) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SPTSSA (NM_138288) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SPTSSA
Synonyms: C14orf147; SSSPTA
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG209747 representing NM_138288
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCTGGCGGGCCTGGAAGCAGATGTCCTGTTCTACTACCAGTACCTGCTGGTCACGGCGCTCT
ACATGCTGGAGCCCTGGGAGCGGACGGTGTCAATTCATGCTGGTTCCATTGTGGGGATGGCACTATA
CACAGGATACGTCTTCATGCCCCAGCACATCATGGCGATATTGCACTACTTTGAAATCGTACAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG209747 representing NM_138288
Red=Cloning site Green=Tags(s)

MALARAWKQMSWFYYQYLLVTALYMLEPWERTVFNSMLVSIVGMALYTYVFMPPQHIMAILHYFEIVQ

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

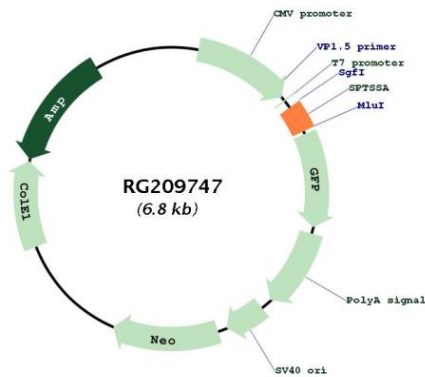


- ACCN:** NM_138288
- ORF Size:** 204 bp
- OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each 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_138288.2](#), [NP_612145.1](#)

RefSeq Size: 2538 bp
 RefSeq ORF: 216 bp
 Locus ID: 171546
 UniProt ID: [Q969W0](#)
 Cytogenetics: 14q13.1
 Protein Families: Transmembrane
 Gene Summary:

Serine palmitoyltransferase (SPT; EC 2.3.1.50) catalyzes the first committed and rate-limiting step in sphingolipid biosynthesis. SSSPTA is a small SPT subunit that stimulates SPT activity and confers acyl-CoA preference to the SPT catalytic heterodimer of SPTLC1 (MIM 605712) and either SPTLC2 (MIM 605713) or SPTLC3 (MIM 611120) (Han et al., 2009 [PubMed 19416851]).[supplied by OMIM, Nov 2010]

Product images:



Circular map for RG209747