

Product datasheet for **MC227486**

Spns2 (NM_001276383) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Spns2 (NM_001276383) Mouse Untagged Clone
Tag: Tag Free
Symbol: Spns2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC227486 representing NM_001276383
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGGCTGCCCCATCTTTGGCTACCTGGGCGACCGCTTCAATAGAAAGGTGATCCTCAGCTGTGGCA
TCTTCTTCTGGTCTGCTGTACCTTCTCGAGTTCTTTCATCCCTCAGCAGTACTTCTGGCTACTAGTCTCT
GTCCCGAGGGCTAGTAGGTATTGGTGAAGCCAGCTACTCCACCATAGCACCCACCATCATTGGCGACTTG
TTTACCAAGAACACACGCACATTGATGCTATCTGTCTTCTATTTTGCCATCCCCCTGGGCAGTGGCCTGG
GCTATATCACAGGTTCCAGCGTGAAGCAGGCAGCTGGAGACTGGCATTGGGCCCTGCGGGTTTCCCCCGT
CCTGGGCATGATCACAGGAACACTCATCTCATCTTGGTCCCAGCCACTAAGAGAGGCCATGCTGATCAA
CTTGGGGGCGAGCTCAAAGCACGGACCTCCTGGCTTCGAGACATGAAGGCCCTGATCCGAAACCGCAGTT
ACGTCTTCTCCTCCCTGGCCACATCCGCTGTGCCTTCGCCACAGGGCCCTGGGCATGTGGATTCCCCT
CTATCTTACCCTGCTCAAGTTGTACAAAAGACAGCAGAGACTTGCAACAGCCCGCCTGTGGAGCCAAA
GACAGCCTCATCTTTGGAGCCATTACCTGCTTTACTGGCTTCTGGGCGTAGTCACGGGCGGGGAGCCA
CTCGTTGGTGGCCCTGCGGACTCAACGTGCTGACCCATTGGTGTGTGCTGTGGGCATGCTGGGATCCGC
CATCTTATCTGCCTCATCTTTGTGGCTGCCAAGACCAGCATTGTAGGCGCTTATATCTGCATTTTGT
GGAGAGACACTGCTGTTTTCTAACTGGGCCATCACTGCAGACATCCTCATGTATGTGGTCATCCCCACTC
GGCGAGCCACTGCTGTGGCCCTGCAGAGCTTCACTCCCATCTGCTGGGGGACGCTGGAAGCCCCTACCT
CATTGGCTTTATCTCGGACCTAATCCGCCAGAGACCAAGGACTCCCCGCTCTGGGAGTTCTGAGCCTG
GGCTATGCCCTCATGCTGTGCCCTTTGTCTGCTGGTCTGGGTGGCATGTTCTTCTTCCCTGCCACTGCTCT
TCTTCTCAGCGACCGTGCCAAGGCTGAGCAGCAGGTGAACCAGCTGGTGTGATGCCTCTGCATCCGTGAA
AGTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_001276383
Insert Size:	1197 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001276383.1</u> , <u>NP_001263312.1</u>
RefSeq Size:	2909 bp
RefSeq ORF:	1197 bp
Locus ID:	216892
Cytogenetics:	11 B4
Gene Summary:	<p>Sphingolipid transporter required for migration of myocardial precursors. Transports sphingosine 1-phosphate (S1P), a secreted lipid mediator that plays critical roles in cardiovascular, immunological, and neural development and function. Mediates the export of S1P from cells in the extraembryonic yolk syncytial layer (YSL), thereby regulating myocardial precursor migration (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) contains an alternate exon in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus compared to isoform 1.</p> <p>Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>