

Product datasheet for **MC218881**

Spns2 (NM_153060) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spns2 (NM_153060) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Spns2
Synonyms:	MGC37865
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC218881 representing NM_153060
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGTGCCTGGAATGCGCCTCGGCGGGCGGGCGGCGGAGGAGGAGGCGGACGCCGAGCGGC
GGCAGCGCGCCGGGGGCGCAGCCAGGGGCTGGAGGTAGCGCTTGTGCGGGGCGGGGTGTTGGGG
CGCTGGAGTCGTGCCGCGACGAAGAGGTGACAGCTTGTCCGCGACGCTGAGGCGGGTCCCGTCCGGA
CTCCCCAGCATCCCCAGCACCCCTGGCTGCGCAGCAGCTGCCAAGGGCCCCAGCGCGCCGAGCCAAAC
CGGCCAGCTTAGGCCGAGGGCGGGGGCAGCTGCTGCCATCCTGAGTTTAGGCAACGTGCTCAACTACCT
GGACAGGTACACTGTGGCAGGTGTTCTTCTGGACATCCAGCAGCACTTTGGGGTCAAGGACCGGGGCGCC
GGCTTGTGCAGTCAGTGTTCATCTGCAGCTTCATGGTGGCTGCCCCATCTTTGGCTACCTGGGCGACC
GCTTCAATAGAAAGGTGATCCTCAGCTGTGGCATCTTCTTCTGGTCTGCTGTACCTTCTCGAGTTCTTT
CATCCCTCAGCAGTACTTCTGGCTACTAGTCTGTCCCGAGGGCTAGTAGGTATTGGTGAAGCCAGCTAC
TCACCATAGCACCCACCATCATTGGCGACTTGTTTACCAAGAACACACGCACATTGATGCTATCTGTCT
TCTATTTTGCATCCCCCTGGGAGTGGCTGGGCTATATCACAGTTCCAGCGTGAAGCAGGCAGCTGG
AGACTGGCATTGGGCCCTGCGGGTTTCCCCGCTCTGGGCATGATCACAGGAACACTCATCTCATCTTG
GTCCCAGCCACTAAGAGAGGCCATGCTGATCAACTTGGGGGCGAGCTCAAAGCACGGACCTCCTGGCTTC
GAGACATGAAGGCCCTGATCCGAAACCGCAGTTACGTCTTCTCCTCCCTGGCCACATCCGCTGTGCCTT
CGCCACAGGGGCCCTGGGCATGTGGATCCCCTCTATCTTACCCTGCTCAAGTTGTACAAAAGACAGCA
GAGACTTGCAACAGCCCCCCTGTGGAGCCAAAGACAGCCTCATCTTTGGAGCCATTACCTGCTTTACTG
GCTTCTGGGCGTAGTCACGGGCGGGGAGCCACTCGTTGGTGCCGCTGCGGACTCAACGTGCTGACCC
ATTGGTGTGTGCTGTGGCATGCTGGGATCCGCCATCTTCATCTGCCTCATCTTTGTGGCTGCCAAGACC
AGCATTGTAGGCCTTATATCTGCATTTTTGTTGGAGAGACTGCTGTTTTCTAACTGGGCCATCACTG
CAGACATCCTCATGTATGTGGTATCCCCACTCGGCGAGCCACTGCTGTGGCCCTGCAGAGCTTCACCTC
CCATCTGCTGGGGGACGCTGGAAGCCCCTACCTCATTGGCTTTATCTCGGACCTAATCCGCCAGAGCACC
AAGGACTCCCCGCTCTGGGAGTTCCTGAGCCTGGGCTATGCCCTCATGCTGTGCCCTTTTGTGTTGGTCC
TGGGTGGCATGTTCTTCTTCCCTGCCACTGCTCTTCTTCTCAGCGACCGTGCCAAGGCTGAGCAGCAGGT
GAACCAGCTGGTATGCCTCCTGCATCCGTGAAAGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2617_e02.zip

Restriction Sites: SgfI-MluI

ACCN: NM_153060

Insert Size: 1650 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_153060.2](#), [NP_694700.2](#)

RefSeq Size: 3257 bp

RefSeq ORF: 1650 bp

Locus ID: 216892

UniProt ID: [Q91VM4](#)

Cytogenetics: 11 B4

Gene Summary: 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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). 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.