

Product datasheet for **MR218672**

Spns2 (NM_153060) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR218672 representing NM_153060
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGTGCCTGGAATGCGCCTCGCGCGCGCGGGCGCGCGGAGGAGGAGGCGGACGCCGAGCGGC
 GCGCCGCGCGCCGGGGGCGCAGCCAGGGGCTGGAGGTAGCGCTTGTGCGGGGCGCGGGGTGTTGGGG
 CGCTGGAGTCGTGCCGCCGACGAAGAGGTGCAGACGTTGTCCGCGACGCTGAGGCGGGTCCCGTCCGGA
 CTCCCCAGCATCCCCAGCACCCCTGGCTGCGCAGCAGCTGCCAAGGGCCCCAGCGCGCCGAGCCAAAC
 CGGCCAGCTTAGGCCGAGGGCGGGGGCAGCTGCTGCCATCCTGAGTTTAGGCAACGTGCTCAACTACCT
 GGACAGGTACACTGTGGCAGGTGTTCTTCTGGACATCCAGCAGCACTTTGGGGTCAAGGACCGGGGCGCC
 GGCTTGTGCAGTCAGTGTTCATCTGCAGCTTCATGGTGGCTGCCCCATCTTTGGCTACCTGGGCGACC
 GCTTCAATAGAAAGGTGATCCTCAGCTGTGGCATCTTCTTCTGGTCTGCTGTACCTTCTCGAGTCTTT
 CATCCCTCAGCAGTACTTCTGGCTACTAGTCTGTCCCGAGGGCTAGTAGGTATTGGTGAAGCCAGCTAC
 TCACCATAGCACCCACCATCATTGGCGACTTGTTTACCAAGAACACACGCACATTGATGCTATCTGTCT
 TCTATTTTGCATCCCCCTGGGAGTGGCTGGGCTATATCACAGTTCCAGCGTGAAGCAGGCAGCTGG
 AGACTGGCATTGGGCCCTGCGGGTTTCCCCGCTCTGGGCATGATCACAGGAACACTCATCTCATCTTG
 GTCCCAGCCACTAAGAGAGGCCATGCTGATCAACTTGGGGGCGAGCTCAAAGCACGGACCTCCTGGCTTC
 GAGACATGAAGGCCCTGATCCGAAACCGCAGTTACGTCTTCTCCTCCCTGGCCACATCCGCTGTGTCCTT
 CGCCACAGGGGCCCTGGGCATGTGGATCCCCTCATCTTACCCTGCTCAAGTTGTACAAAAGACAGCA
 GAGACTTGCAACAGCCCCCCTGTGGAGCCAAAGACAGCCTCATCTTTGGAGCCATTACCTGCTTTACTG
 GCTTCTGGGCGTAGTCACGGGCGGGGAGCCACTCGTTGGTGCCGCTCGGACTCAACGTGTGACCC
 ATTGGTGTGTGCTGTGGCATGCTGGGATCCGCCATCTTCATCTGCCTCATCTTTGTGGCTGCCAAGACC
 AGCATTGTAGGCGCTTATATCTGCATTTTTGTTGGAGAGACTGCTGTTTTCTAACTGGCCATCACTG
 CAGACATCCTCATGTATGTGGTATCCCCACTCGGCGAGCCACTGCTGTGGCCCTGCAGAGCTTACCTC
 CCATCTGCTGGGGGACGCTGGAAGCCCCTACCTCATTGGCTTTATCTCGGACCTAATCCGCCAGAGCACC
 AAGGACTCCCCGCTCTGGGAGTTCCTGAGCCTGGGCTATGCCCTCATGCTGTGCCCTTTTGTGCTGGTCC
 TGGGTGGCATGTTCTTCTTCCCTGCCACTGCTCTTCTTCTCAGCGACCGTGCCAAGGCTGAGCAGCAGGT
 GAACCAGCTGGTATGCCTCCTGCATCCGTGAAAGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218672 representing NM_153060
 Red=Cloning site Green=Tags(s)

MMCLECASAAAGGAEIIIADAERRRRRRGAQPGAGGSACCGARGVGGAGVVSADIEVQTLSGSVRRVPSG
 LPSIPSTPGCAAAAKGPSAPQPKPASLGRGRGAAAAILSLGNVNLNYLDRYTVAGVLLDIQQHFGVKDRGA
 GLLQSVFICFSFMAAPIFGYLGDRFNKRVILSCGIFFWSAVTFSSSFIQQYFWLLVLSRGLVGIIEASY
 STIAPTIIIGDLFTKNRTRLMLSVFYFAIPLGSLGYITGSSVKQAAGDWHWALRVSPVLGMITGTLILIL
 VPATKRGHADQLGGQLKARTSWLRDMKALIRNRSYVVFSSLATSAVSFATGALGMWIPLYLHRAQVQKTA
 ETCNSPPCGAKDSLIFGAITCFGTGLGVVTGAGATRWCLRTQRADPLVCAVGMGLSAIFICLIFVAAKT
 SIVGAYICIFVGETLLFSNWAITADILMYVVIPTRRATAVALQSFTSHLLGDAGSPYLIGFISDLIRQST
 KDSPLWEFLSLGYALMLCPFVVVLGGMFFLATALFFLSDRAKAEQQVNQLVMPASVKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9092_a05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_153060

ORF Size: 1647 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](#)

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).

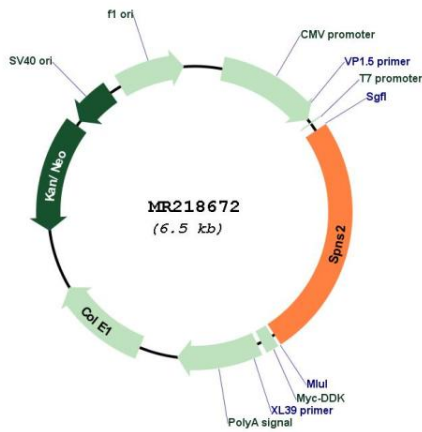
- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_153060.3](#), [NP_694700.2](#)

RefSeq Size: 3257 bp
 RefSeq ORF: 1650 bp
 Locus ID: 216892
 UniProt ID: [Q91VM4](#)
 Cytogenetics: 11 B4
 MW: 58.2 kDa

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]

Product images:



Circular map for MR218672