

## Product datasheet for **MR229697**

### Spns2 (NM\_001276383) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Spns2 (NM\_001276383) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Spns2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR229697 representing NM\_001276383  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGGCTGCCCCATCTTTGGCTACCTGGGCGACCGCTTCAATAGAAAGGTGATCCTCAGCTGTGGCA  
TCTTCTTCTGGTCTGCTGTACCTTCTCGAGTTCTTTCATCCCTCAGCAGTACTTCTGGCTACTAGTCTCT  
GTCCCGAGGGCTAGTAGGTATTGGTGAAGCCAGCTACTCCACCATAGCACCCACCATCATTGGCGACTTG  
TTTACCAAGAACACACGCACATTGATGCTATCTGTCTTCTATTTTGCCATCCCCCTGGGCAGTGGCCTGG  
GCTATATCACAGTTCCAGCGTGAAGCAGGCAGCTGGAGACTGGCATTGGGCCCTGCGGGTTTCCCCCGT  
CCTGGGCATGATCACAGGAACACTCATCCTCATCTTGGTCCCAGCCACTAAGAGAGGCCATGCTGATCAA  
CTTGGGGGGCAGCTCAAAGCACGGACCTCCTGGCTTCGAGACATGAAGGCCCTGATCCGAAACCGCAGTT  
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CTATCTTACCCTGCTCAAGTTGTACAAAAGACAGCAGAGACTTGCAACAGCCCCTGTGGAGCCAAA  
GACAGCCTCATCTTTGGAGCCATTACCTGCTTACTGGCTTCTGGGCGTAGTCACGGGCGGGGAGCCA  
CTCGTTGGTGCCGCTGCGGACTCAACGTGCTGACCCATTGGTGTGTGCTGTGGGCATGCTGGGATCCGC  
CATCTTATCTGCCTCATCTTTGTGGCTGCCAAGACCAGCATTGTAGGCGCTTATATCTGCATTTTGT  
GGAGAGACTGCTGTTTTCTAACTGGGCCATCACTGCAGACATCCTCATGTATGTGGTCATCCCCACTC  
GGCGAGCCACTGCTGTGGCCCTGCAGAGCTTACCTCCCCTGCTGGGGGACGCTGGAAGCCCCTACCT  
CATTGGCTTTATCTCGGACCTAATCCGCCAGAGACCAAGGACTCCCCGCTCTGGGAGTTCTGAGCCTG  
GGCTATGCCCTCATGCTGTGCCCTTTGTCTGGTCTGGGTGGCATGTTCTTCTTGCCACTGCTCTCT  
TCTTCTCAGCGACCGTGCCAAGGCTGAGCAGCAGGTGAACCAGCTGGTGTGATGCCTCTGCATCCGTGAA  
AGTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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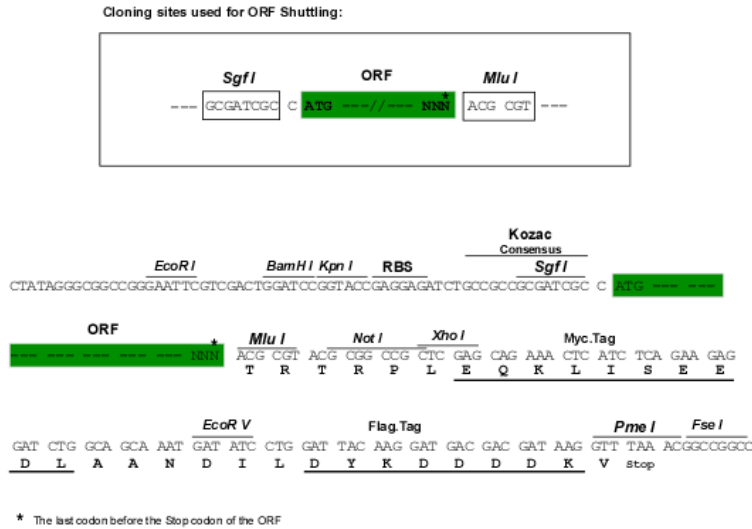
Protein Sequence: >MR229697 representing NM\_001276383  
 Red=Cloning site Green=Tags(s)

MVAAPIFGYLGDRFNKRVILSCGIFFWSAVTFSSSFIPOQYFWLLVLSRGLVGIGEASYSTIAPTIIIGDL  
 FTKNTRTLMLSVFYFAIPLGSLGYITGSSVKQAAGDWHWALRVSPVLGMITGTLILILVPATKRHADQ  
 LGGQLKARTSWLRDMKALIRNRSYVYFSSLATSAVSFATGALGMWIPLYLHRAQVVQKTAETCNPPCGAK  
 DSLIFGAICTFTGFLGVVTGAGATRWCLRTQRADPLVCAVGMGSAIFICLIFVAAKTSIVGAYICIFV  
 GETLLFSNWAITADILMYVVIPTRRATAVALQSFTSHLLGDAGSPYLIGFISDLIRQSTKDSPLWEFLSL  
 GYALMLCPFVVVLGGMFFLATALFFLSDRAKAEQQVNQLVMPPASVKV

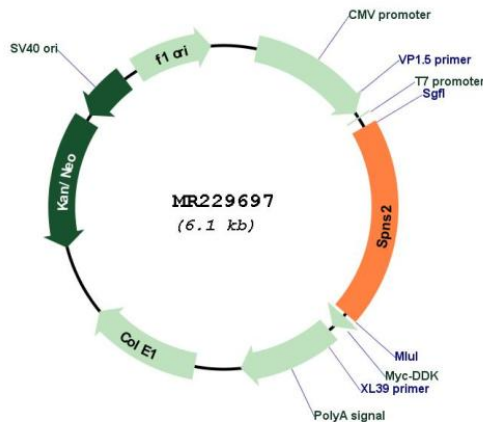
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001276383

<b>ORF Size:</b>	1194 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001276383.1</a> , <a href="#">NP_001263312.1</a>
<b>RefSeq Size:</b>	2909 bp
<b>RefSeq ORF:</b>	1197 bp
<b>Locus ID:</b>	216892
<b>Cytogenetics:</b>	11 B4
<b>MW:</b>	43.5 kDa
<b>Gene Summary:</b>	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]