

Product datasheet for **RC225940**

SPNS2 (NM_001124758) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPNS2 (NM_001124758) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SPNS2
Synonyms:	DFNB115; SLC62A2; SLC63A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC225940 representing NM_001124758
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTGCCTGGAATGCGCCTCGGCGCGGGCGGCGCGGAGGAGGAGGCGGACCGGAGCGGCGGC
 GCCGCGCGCGGGGGCGCAGCAGGGGCTGGCGGTAGCGTTGCTGCGGGGCGCGGGGCGGGCGCGC
 TGGAGTCTCGGCCGCGGGCGATGAGGTGACAGCCTGTCGGGCGAGCGTAAGGCGGGCCCCACCGGACCC
 CCCGGCACCCCGGCACCCCGGCTGCGCAGCTACTGCAAAGGGCCCCGCGCTCAGCAGCCAAACCGG
 CCAGCTTGGGCCGCGGGCGGGGCGAGCCCGCCATCCTCAGCTTGGGCAACGTGCTCAACTACCTGGA
 CAGGTACACCGTGGCAGGCGCTTCTGGACATCCAGCAGCACTTGGGGTCAAGGACCGAGGCGCGGC
 CTGCTGCAGTCAGTGTTCATCTGTAGTTCATGGTGGCTGCCCCATCTTCGGCTACCTGGGCGACCGCT
 TCAACAGGAAGGTGATTCTCAGCTGCGCATTCTTCTGGTGGCCGTACCTTCTCCAGCTCCTTCAT
 TCCCCAGCAGTACTTCTGGCTGTGGTCTGTCCCGGGGCTGGTGGGCATCGGGGAGGCCAGCTACTCC
 ACCATCGCCCCACTATCATTGGCGACCTTCCACCAAGAACACGCGTACGCTCATGCTGTCCGCTTCT
 ACTTCGCCATCCCCTGGCAGTGGCCTGGGCTACATTACTGGCTCCAGCGTGAAGCAGGAGCCGGAGA
 CTGGCACTGGGCATTGCGGGTGTCCCCTGTCTGGGCATGATCACAGGAACACTCATCTATTCTGGTC
 CCAGCCACTAAAAGGGGTGATGCCGACCAAGCTCGGGGACCAAGCTCAAGGCCCGGACCTCATGGCTCCGAG
 ATATGAAGGCCCTGATTCGAAACCGCAGTACGCTTCTCCTCCCTGGCCACGTCGGCTGTCTCCTTCG
 CACGGGGGCCCTGGGCATGTGGATCCCCTCTACCTGCACCGCCCAAGTTGTGCAGAAGACAGCAGAG
 ACGTGCAACAGCCCGCCTGTGGGGCAAGGACAGCCATCTTTGGGGCCATCACCTGCTTTACGGGAT
 TTCTGGGCGTGGTCACGGGGGCGAGGACCAAGCAGCGCTGGTGGCCGCTGAAGACCCAGCGGGCCGACCACT
 GGTGTGTGCCGTGGGCATGCTGGGCTCTGCCATCTTCATCTGCCTGATCTTCGTGGCTGCCAAGAGCAGC
 ATCGTAGGAGCCTATATCTGTATCTTCGTCGGGGAGACGCTGCTGTTTTCTAACTGGGCCATCACTGCAG
 ACATCCTCATGTACGTGGTCATCCCACGCGGCGGCCACTGCCGTGGCCTTGCAGAGCTTACCTCCCA
 CCTGCTGGGGGACGCGGGAGCCCTACCTCATTGGCTTATCTCAGACCTGATCCGCCAGAGCACTAAG
 GACTCCCCGCTCTGGGAGTTCCTGAGCCTGGGCTACGCGCTCATGCTCTGCCCTTCGTCGTGGTCTGG
 GCGGCATGTTCTCCTCGCCACTGCGCTTCTTCGTCAGCGACCGGCCAGGGCTGAGCAGCAGGTGAA
 CCAGCTGGCGATGCCGCCGATCTGTGAAAGTC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC225940 representing NM_001124758
 Red=Cloning site Green=Tags(s)

MCLECAAAAGGAEIIIADAERRRRRGAQRGAGGSGCCGARGAGGAVSAAGDEVQTLSGSVRRAPTGP
 PGTPTGPGCAATAKGPQAQPKPASLGRGRGAAAAILSLGNVLYLDRYTVAGVLLDIQQHFVVKDRGAG
 LLQSVFICSMVAAPIFGYLGDRFNKVLILSCGIFFWAVTFSSSFIPQQYFWLLVLSRGLVIGEASYS
 TIAPTIIGDLFTKNRTRMLSVFYFAIPLGSLGYITGSSVKQAAGDWHWALRVSPVLGMITGTLILILV
 PATKRGHADQLGDQLKARTSWLRDMKALIRNRSYVFSLATSAVSFATGALGMWIPLYLHRAQVQKTAE
 TCNSPPCGAKDSLIFGAITCFTGFLGVVTGAGATRWCRKLTQRADPLVCAVGMLGSAIFICLIFVAAKSS
 IVGAYICIFVGETLLFSNVAITADILMYVVIPTRRATAVALQSFTSHLLGDAGSPYLIIGFISDLIRQSTK
 DSPLWEFLSLGYALMLCPFVVVLGGMFFLATALFFVSDRARAEEQQVNLAMPASVKV

SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg4624_a07.zip

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:



ACCN: NM_001124758

ORF Size: 1644 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_001124758.3](#)

RefSeq ORF: 1650 bp

Locus ID: 124976

UniProt ID: [Q8IVW8](#)

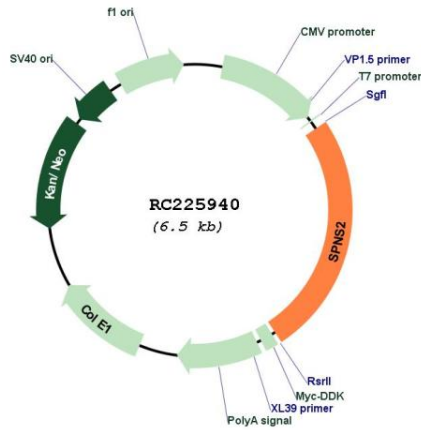
Cytogenetics: 17p13.2

Protein Families: Transmembrane

MW: 57.9 kDa

Gene Summary: The protein encoded by this gene is a transporter of sphingosine 1-phosphate, a secreted lipid that is important in cardiovascular, immunological, and neural development. Defects in this gene are a cause of early onset progressive hearing loss. [provided by RefSeq, Jul 2016]

Product images:



Circular map for RC225940