

Product datasheet for **RG225940**

SPNS2 (NM_001124758) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPNS2 (NM_001124758) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SPNS2
Synonyms:	DFNB115; SLC62A2; SLC63A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG225940 representing NM_001124758
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGTGCCTGGAATGCGCCTCGGCGGGCGGGCGGCGGAGGAGGAGGCGGACGCGGAGCGGG
 GCGCCGCGCGCCGGGGGCGCAGCGAGGGGCTGGCGGTAGCGGTTGCTGCGGGGCGGGGGCGGGCGG
 CGCTGGAGTCTCGGCGCGGGCGATGAGGTGACAGCCTGTCGGGACGCGTAAGCGGGCCCCGACCGGA
 CCCCCGGCACCCCGGCACCCCGGCTGCGCAGCTACTGCAAAGGGCCCCGGCGCTCAGCAGCCAAAC
 CGGCCAGCTTGGGCGCGGGGGGAGCCGCCCATCCTCAGCTTGGGCAACGTGCTCAACTACCT
 GGACAGGTACACCGTGGCAGGCGTCTTCTGGACATCCAGCAGCACTTTGGGTC AAGGACCGAGGCGCC
 GGCTGCTGCAGTCAGTGTTCATCTGTAGCTTCATGGTGGCTGCCCCATCTTCGGCTACCTGGGCGACC
 GCTTCAACAGGAAGGTGATTCTCAGCTGCGGCATTTTCTTCTGGTCGGCCGTACCTTCTCAGCTCCTT
 CATTCCCAGCAGTACTTCTGGCTGCTGGTCTGTCCCGGGGCTGGTGGGCATCGGGAGGCCAGCTAC
 TCACCATCGCCCCACTATCATTGGCGACCTTTCACCAAGAACACGCGTACGCTCATGCTGTCCGTCT
 TCTACTTCGCCATCCCCTGAGGAGTGGCTGGGCTACATTACTGGCTCCAGCGTGAAGCAGGCAGCCGG
 AGACTGGCACTGGGCAATTGCGGGTGTCCCTGTCTGGGCATGATCACAGGAACACTCATCTCATTCTG
 GTCCCAGCCACTAAAAGGGGTATGCCGACCAGCTCGGGGACCAGCTCAAGGCCCGACCTCATGGCTCC
 GAGATATGAAGGCCCTGATTGAAACCGCAGCTACGTCTTCTCCTCCCTGGCCACGTGGCTGTCTCCTT
 CGCCACGGGGCCCTGGGCATGTGGATCCCGCTACCTGCACCGGCCCAAGTTGTGCAGAAGACAGCA
 GAGACGTGCAACAGCCCGCCCTGTGGGCAAGGACAGCCTCATCTTTGGGGCCATCACCTGCTTTACGG
 GATTTCTGGGCGTGGTCACGGGGCAGGAGCCACGCGCTGGTGGCCCTGAAGACCCAGCGGGCCGACCC
 ACTGGTGTGTGCCGTGGGCATGCTGGGCTCTGCCATCTTCATCTGCCTGATCTTCGTGGCTGCCAAGAGC
 AGCATCGTAGGAGCCTATATCTGTATCTTCGTCGGGAGACGCTGCTGTTTTCTAACTGGGCCATCACTG
 CAGACATCCTCATGTACGTGGTATCCCCACGCGGCGGCCACTGCCGTGGCCTTGACAGCTTACCTC
 CCACCTGCTGGGGACGCGGGGAGCCCTACCTCATTGGCTTTATCTCAGACCTGATCCGCCAGAGCACT
 AAGGACTCCCCGCTCTGGGAGTTCTGAGCCTGGGCTACGCGCTCATGCTCTGCCCTTTCGTGTGGTCC
 TGGGCGGCATGTTCTTCTCGCCACTGCGCTCTTCTTCGTAGCGACCGGCCAGGGCTGAGCAGCAGGT
 GAACCAGCTGGCGATGCCGCCCATCTGTGAAAGTC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG225940 representing NM_001124758
 Red=Cloning site Green=Tags(s)

MMCLECASAAAGGAE EEEADAERRRRRRGAQRGAGGSGCCGARGAGGAGVSAAGDEVQTLSGSVRRAPTG
 PPGTPTGPGAATAKPGAQPKPASLGRGRGAAAAILSLGNVLYLDRYTVAGVLLDIQQHFGVKDRGA
 GLLQSVFICSFMAAPIFGYLGDRFNKRVILSCGIFWSAVTFSSSFPQYFWLLVLSRGLVGI EASY
 STIAPTIIGDLFTKNRTRLMLSVFYFAIPLGSLGYITGSSVKQAAGDWHWALRVSPVLGMITGTLILIL
 VPATKRGHADQLGDQLKARTSWLRDMKALIRNRSYVFSLATSAVSFATGALGMWIPLYLHRAQVVKTA
 ETCNSPPCGAKDSLIFGAITCFTGFLGVVTGAGATRWCRKTKQRADPLVCAVGMLGSAIFICLIFVAKS
 SIVGAYICIFVGETLLFSNWAITADILMYVVIPTRRATAVALQSFTSHLLGDAGSPYLIGFISDLIRQST
 KDSPLWEFLSLGYALMLCPFVVVLGGMFFLATALFFVSDRARA EQVNQLAMP PASVKV

SGP**TRRRLE** - GFP Tag - V

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:


ACCN: NM_001124758

ORF Size: 1647 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 Size: 4349 bp

RefSeq ORF: 1650 bp

Locus ID: 124976

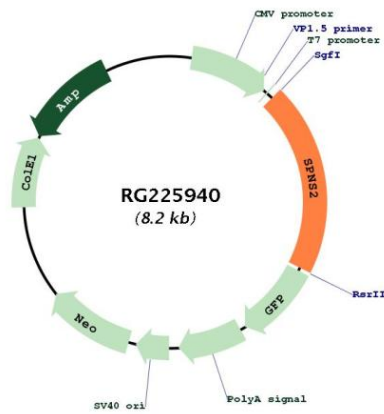
UniProt ID: [Q8IVW8](#)

Cytogenetics: 17p13.2

Protein Families: Transmembrane

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 RG225940