

Product datasheet for RC227983

SPHK1 (NM_001142601) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPHK1 (NM_001142601) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SPHK1
Synonyms:	SPHK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC227983 representing NM_001142601 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCCAGCGGGCGGCCCGGGGGCGTGTCCCGGGCCCTGCCCGTGTGGTGTCTGAACCCGC
GCGGGCAAGGGCAAGGCCTTGCAGCTTCCGGAGTCACGTGCAGCCCTTTGGCTGAGGCTGAAAT
CTCCTTACGCTGATGCTCACTGAGCGGCAACACGCGGGAGCTGGTGGTGGAGGAGCTGGC
CGCTGGGACGCTCTGGTGTCTGTGGAGACGGCTGATGCACGAGGTGGTGAACGGGCTCATGGAGC
GGCCTGACTGGGAGACCCATCCAGAAGCCCTGTGTAGCCTCCAGCAGGCTCTGGCAACGCGTGGC
AGCTTCTTGAACCATTATGCTGGCTATGAGCAGGTACCAATGAAGACCTCCTGACCAACTGCAGCTA
TTGCTGTGCCCGGCTGCTGTCAACCTGCTGTCTCTGCACACGGCTTCGGGGCTGCGCCTCT
TCTGTGTCTCAGCCTGGCCTGGGGCTTATTGCTGATGTGGACCTAGAGAGTGAGAAGTATCGGCGTCT
GGGGAGATGCGCTTCACTCTGGCACCTTCTGCTTCTGGCAGCCCTGCGCACCTACCGCGGCCGACTG
GCCTACCTCCCTGTAGGAAGAGTGGGTTCCAAGACACCTGCCTCCCCGTTGTGGTCCAGCAGGGCCCG
TAGATGCACACCTTGTGCCACTGGAGGAGCCAGTGCCTCTCACTGGACAGTGGTCCCGACGAGGACTT
TGTGCTAGTCTGGCACTGCTGCACTCGCACCTGGCAGTGAGATGTTTGGTGCACCCATGGGCCGCTGT
GCAGTGGCGTCATGCATCTGTTCTACGTGCGGGCGGAGTGTCTCGTGCCATGCTGCGCCTTCC
TGGCCATGGAGAAGGGCAGGCATATGGAGTATGAATGCCCTACTTGGTATACGTGCCCGTGGTCCGCTT
CCGCTTGGAGCCCAAGGATGGGAAAGGTGTGTTTGCAGTGGATGGGAATTGATGGTTAGCGAGGCCGTG
CAGGGCCAGGTGCACCCAACTACTTCTGGATGGTCCAGCGTTGCGTGGAGCCCCCGCCAGCTGGAAGC
CCAGCAGATGCCACCGCAGAAGGCCCTTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC227983 representing NM_001142601
Red=Cloning site Green=Tags(s)

MDPAGGPRGVLPRPCRVLVLLNPRGGKALQLFRSHVQPLLAEEISFTLMLTERRNHARELVRSEELG
 RWDALVMSGDGLMHEVVNGLMERPDWETAIQKPLCSLPAGSGNALAASLNHYAGYEQVTNEDLLTNCTL
 LLCRRLLSPMNL LSLHTASGLR LFSVL SLAWGF IADVDLESEKYRRLGEMRFTLGTFLLLAALR TYRGR L
 AYLPVGRVGSKTPASPVVVQQGPVDAHLVPLEEPVPSHWTVPDEDFVLV LALLHSHLGSEMFAAPMGRC
 AAGVMHLFYVRAGVSRAMLLRLFLAMEKGRHMEYECPYLVYVPVVAFRLEPKDGKGVFAVDGELMVSEAV
 QQQVHPNYFWMVSGCPEPPPSWKPQQMPPEEPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001142601

ORF Size: 1152 bp

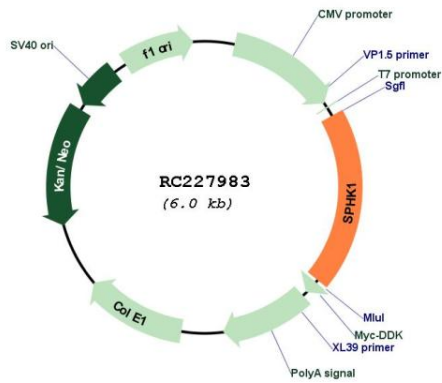
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:	<ol style="list-style-type: none">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:	<u>NM_001142601.1, NP_001136073.1</u>
RefSeq ORF:	1155 bp
Locus ID:	8877
UniProt ID:	<u>Q9NYA1</u>
Cytogenetics:	17q25.1
Protein Families:	Druggable Genome
Protein Pathways:	Calcium signaling pathway, Fc gamma R-mediated phagocytosis, Metabolic pathways, Sphingolipid metabolism, VEGF signaling pathway
MW:	42.3 kDa
Gene Summary:	The protein encoded by this gene catalyzes the phosphorylation of sphingosine to form sphingosine-1-phosphate (S1P), a lipid mediator with both intra- and extracellular functions. Intracellularly, S1P regulates proliferation and survival, and extracellularly, it is a ligand for cell surface G protein-coupled receptors. This protein, and its product S1P, play a key role in TNF-alpha signaling and the NF-kappa-B activation pathway important in inflammatory, antiapoptotic, and immune processes. Phosphorylation of this protein alters its catalytic activity and promotes its translocation to the plasma membrane. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2017]

Product images:



Circular map for RC227983