

Product datasheet for MR226229

Sphk1 (NM_025367) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sphk1 (NM_025367) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sphk1
Synonyms:	1110006G24Rik; SK; Sk1; Spk1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR226229 representing NM_025367. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAACCACTAGAAATGCCCTCGAGGACTGCTCCACGGCCATGCAGAGTCTGGTCTGCTGAACCCC
CAGGGTGGCAAGGGCAAGGCTCTGCAGCTCTCCAGAGCCGTGTGCAGCCCTTCTGGAGGAGGCAGAG
ATAACCTTTAACTGATACTCACCGAACGGAAGAACCATGCCAGGGAGCTGGTGTGTGCAGAGGAGTTG
GGTCACTGGGACGCCCTGGCAGTCATGTCCGGTATGGTCTGATGCATGAGGTGGTGAATGGGCTAATG
GAACGGCCCGACTGGGAGACTGCCATCCAGAAACCCCTGTGTAGCCTCCCTGGAGGCTCCGGCAATGCG
CTGGCAGCTTCTGTGAACCACTATGCTGGGTACGAACAGGTGACTAATGAAGACCTGCTCATCAACTGC
ACACTGCTGTTGTGCCGCGCGCCTGTACCCATGAACCTGCTGTCCCTGCACACTGCTTCTGGGCTG
CGGCTCTATTCTGTGCTCAGTCTGTCTGGGGCTTTGTTGCTGACGTGGACCTCGAGAGTGAGAAGTAC
AGGCGCTTGGGGGAGATTCGTTTCACAGTGGGCACCTTCTTTCGCTAGCAAGCCTGCGCATCTACCAA
GGCCAACCTGGCCTACCTTCTGTAGGAAGTGTGGCCTCTAAGAGACCCGCTCTACACTGGTGCAGAAAG
GGCCCCGTCGACACACCTTGTTCCTCTGGAGGAGCCAGTGCCTTCTCATTGGACTGTGGTACCAGAA
CAGGACTTTGTCTGGTGTGGTGTGTACACACCCACCTGAGCTCCGAGCTGTTTGCAGCACCCATG
GGCCGCTGTGAGGCTGGTGTATGCATCTGTTCTACGTACGTGCGGGGGTGTCAAGGGCTGCGCTGCTG
CGCCTTCTCTGGCCATGCAGAAGGGCAAGCATATGGAACCTGACTGTCCATACCTGGTTCATGTGCC
GTGGTTGCTTCCGCTGGAGCCAGGAGCCAGAGGGGCGTGTTCCTGTGGATGGAGAGCTGATGGTA
TGTGAAGCTGTGCAGGGCCAAGTGCACCCAACTACCTTTGGATGGTCTGTGGCAGCAGAGATGCCCA
TCCGGCCGGGACTCCCGCGGGGGCCACCTCCAGAAGAACCA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Protein Sequence: >Peptide sequence encoded by MR226229
 Blue=ORF Red=Cloning site Green=Tag(s)

MEPVECPGRLLPRPCRVLVLLNPQGGKALQLFQSRVQPFLEEAEITFKLILTERKNHARELVCAEEL
 GHWDALAVMSGDGLMHEVVNGLMERPDWETAIQKPLCSLPGGSGNALAASVNHAYGYEQVTNEDLLINC
 TLLLRRRLSPMNL LSLHTASGLRLYSVL SWGFVADVDLESEKYRRLGEIRFTVGTFFRLASLRIYQ
 GQLAYLPVGTVASKRPASTLVQKGPVDTHLVPLEEPVPSHWTVPPEQDFVLVLLHHTLSSELF AAMP
 GRCEAGVMHLFYVRAGVSRAALLRLFLAMQKKGKHMELDCPYLVHVPVAVFRLEPRSQRGVFSVDGELMV
 CEAVQGQVHPNYLWMVCGSRDAPSGRDSRRGPPPEEP
 TRTRPLEQKLISEEDLAANDILDYKDDDDKVV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_025367

ORF Size: 1146 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 Size: 1763 bp

RefSeq ORF: 1149 bp

Locus ID: 20698

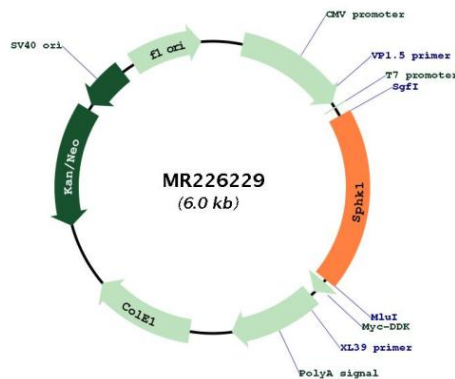
UniProt ID: [Q8CI15](#)

Cytogenetics: 11 E2

MW: 42.4 kDa

Gene Summary: This gene encodes a kinase that phosphorylates sphingosine into sphingosine-1-phosphate, which is involved in cell differentiation, motility, and apoptosis. The encoded protein plays a role in maintaining cellular levels of sphingosine-1-phosphate. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2010]

Product images:



Circular map for MR226229