

Product datasheet for MR205960

Sphk1 (NM_001172475) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sphk1 (NM_001172475) 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:	>MR205960 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACCACTAGAAATGCCCTCGAGGACTGCTCCACGGCCATGCAGAGTCTGGTCTGCTGAACCCC
AGGGTGGCAAGGGCAAGGCTCTGCAGCTCTCCAGAGCCGTGTGCAGCCCTTCTGGAGGAGGCAGAGAT
AACCTTTAACTGATACTCACCGAACGGAAGAACCATGCCAGGGAGCTGGTGTGCAGAGGAGTTGGGT
CACTGGGACGCCCTGGCAGTCATGTCGGTGATGGTCTGATGCATGAGGTGGTGAATGGGCTAATGGAAC
GGCCCGACTGGGAGACTGCCATCCAGAAACCCCTGTGTAGCCTCCCTGGAGGCTCCGGCAATGCGCTGGC
AGCTTCTGTGAACCACTATGCTGGGTACGAGCAGGTGACTAATGAAGACCTGCTCATCAACTGCACACTG
CTGTTGTGCCCGCGCCTGTACCCATGAACCTGCTGTCCCTGCACACTGCTTCTGGGCTGCGGCTCT
ATTCTGTGCTCAGTCTGTCTGGGGCTTTGTTGCTGACGTGGACCTCGAGAGTGAGAAGTACAGGCGCTT
GGGGGAGATTCGTTTACAGTGGGCACCTTCTTTCGCCTAGCAAGCCTGCGCATCTACCAAGGCCAACTG
GCCTACCTTCTGTAGGAACTGTGGCCTAAGAGACCCGCTTACACTGGTGCAGAAGGGCCCGTCG
ACACACACCTTGTTCCTCGGAGGAGCCAGTGCCTTCTCATTGGACTGTGGTACCAGAACAGGACTTGT
CCTGGTGTGGTCTGTACACACCCACCTGAGCTCCGAGCTGTTGCAGACCCATGGGCCGCTGTGAG
GCTGGTGTATGCATCTGTTCTACGTACGTGCGGGGTGTCAAGGGCTGCGCTGCGCCTCTTCTCTGG
CCATGCAGAAGGGCAAGCATATGGAACCTGACTGTCCATACCTGGTTTCATGTGCCCGTGGTTGCTTCCG
CCTGGAGCCAGGAGCCAGAGGGCGTGTCTTCTGTGGATGGAGAGCTGATGGTATGTGAAGCTGTGCAG
GGCCAAGTGCACCCAACTACCTTTGGATGGTCTGTGGCAGCAGAGATGCCCCATCCGGCCGGGACTCCC
GGCGGGGGCCACCTCCAGAAGAACCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205960 protein sequence
 Red=Cloning site Green=Tags(s)

MEPVECPRGLLPRPCRVLVLLNPQGGKALQLFQSRVQPFLEEAEITFKLILTERKNHARELVCAEELG
 HWDALAVMSGDGLMHEVVNGLMERPDWETAIQKPLCSLPGGSGNALAASVNHAYGEQVTNEDLLINCTL
 LLCRRRLSPMNL LSLHTASGLRLYSVL SL SWGFVADVDLESEKYRRLGEIRFTVGTFFRLASLRIYQGQL
 AYLPVGTVASKRPASTLVQKGPVDTHLVPLEEPVPSHWTVVPEQDFVLVLLHHTLSSELFAAPMGRCE
 AGVMHLFYVRAGVSRALLRFLAMQKKGKHMELDCPYLVHVPVAFRLEPRSQRGVF SVDGELMVCEAVQ
 GQVHPNYLWMVCGSRDAPSGRDSRRGPPPEEP

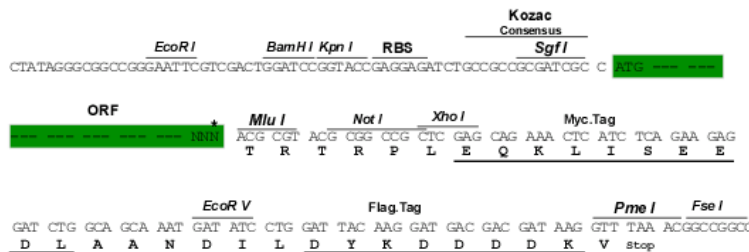
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001172475

ORF Size: 1149 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:

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_001172475.1](#), [NP_001165946.1](#)

RefSeq Size: 1805 bp

RefSeq ORF: 1146 bp

Locus ID: 20698

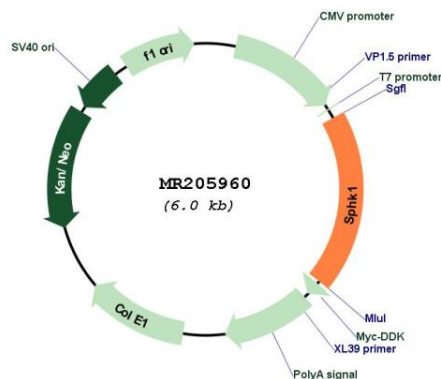
UniProt ID: [Q8CI15](#)

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 MR205960