

Product datasheet for MR226231

Sphk1 (NM_001172472) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sphk1 (NM_001172472) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sphk1
Synonyms:	1110006G24Rik; SK; Sk1; Spk1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR226231 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACCACTAGAATGCCCTCGAGGACTGCTCCACGGCCATGCAGAGTGTGGTGTCTGAACCCC
AGGGTGGCAAGGCAAGGCTCTGCAGCTTCCAGAGCCGTGTGCAGCCCTTCTGGAGGAGGCAGAGAT
AACCTTTAACTGATACTCACCGAACGGAAGAACCATGCCAGGGAGCTGGTGTGTGCAGAGGAGTTGGGT
CACTGGGACGCCCTGGCAGTCATGTCCGGTGATGGTCTGATGCATGAGGTGGTGAATGGGCTAATGGAA
GGCCAGACTGGGAGACTGCCATCCAGAAACCCCTGTGTAGCCTCCCTGGAGGCTCCGGCAATGCGTGGC
AGCTTCTGTGAACCACTATGCTGGGTACGAGCAGGTGACTAATGAAGACCTGCTCATCAACTGCACACTG
CTGTTGTGCCCGCGCCTGTACCCATGAACCTGCTGTCCCTGCACACTGCTTCTGGGCTGCGGCTCT
ATTCTGTGCTCAGTCTGTCTGGGGCTTTGTTGCTGACGTGGACCTCGAGAGTGAGAAGTACAGGCGCTT
GGGGGAGATTCGTTTACAGTGGCACCTTCTTCGCCTAGCAAGCCTGCGCATCTACCAAGGCCAACTG
GCCTACCTTCTGTAGGAACTGTGGCCTTAAGAGACCCGCTCTACACTGGTGCAGAAGGGCCCGTCG
ACACACACCTTGTCTCTGGAGGAGCCAGTGCCTTCTCATTGGACTGTGGTACCAGAACAGGACTCGT
CCTGGTGTGGTGTGCTACACACCCACCTGAGCTCCGAGCTGTTTGCAGCACCCATGGGCCGCTGTGAG
GCTGGTGTATGCATCTGTTCTACGTACGTGCGGGGTGTCAAGGGCTGCGCTGCTGCGCCTCTTCTGG
CCATGCAGAAGGGCAAGCATATGGAACCTGACTGTCCATACCTGGTTCATGTGCCGTGGTTGCTTCCG
CCTGGAGCCAGGAGCCAGAGGGCGTGTCTTCTGTGGATGGAGAGCTGATGGTATGTGAAGCTGTGCAG
GGCCAAGTGCACCAACTACCTTTGGATGGTCTGTGGCAGCAGAGATGCCCCATCCGGCCGGGACTCCC
GGCGGGGGCCACCTCCAGAAGAACCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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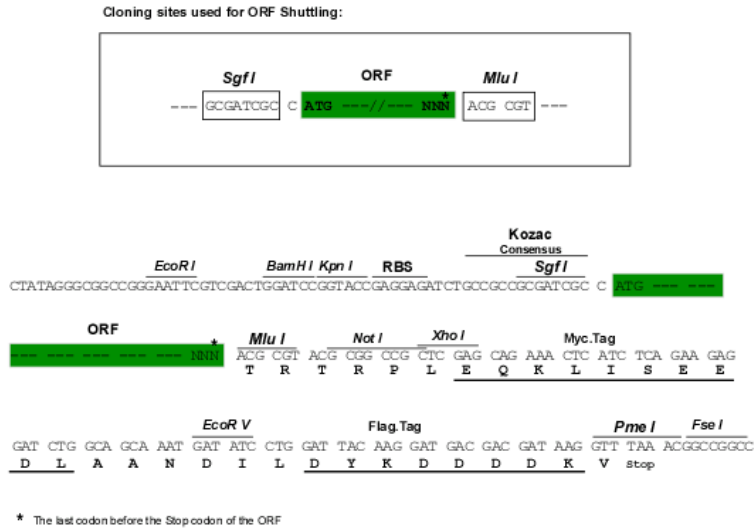
Protein Sequence: >MR226231 protein sequence
 Red=Cloning site Green=Tags(s)

MEPVECP RGLLPRPCRVLVLLNPQGGK G KALQLFQSRVQPFLEEAEITFKLILTERKNHARELVCAEELG
 HWDALAVMSGDGLMHEVVNGLMERPDWETAIQKPLCSLPGGSGNALAASVNHVYAGYEQVTNEDLLINCTL
 LLCRRRLSPMNL LSLHTASGLRLYSVLSL SWGFVADVDLESEKYRRLGEIRFTVGTFFRLASLRIYQGQL
 AYLPLVGTVASKRPASTLVQKGPVDTHLVPLEEPVPSHWTVVPEQDFVLVLLHHTLSSELFAAPMGRCE
 AGVMHLFYVRAGVSRALLRFLAMQKKGKHMELDCPYLVHVPVVAFRLEPRSQRGVF SVDGELMVCEAVQ
 GQVHPNYLWMVCGSRDAPSGRDSRRGPPPEEP

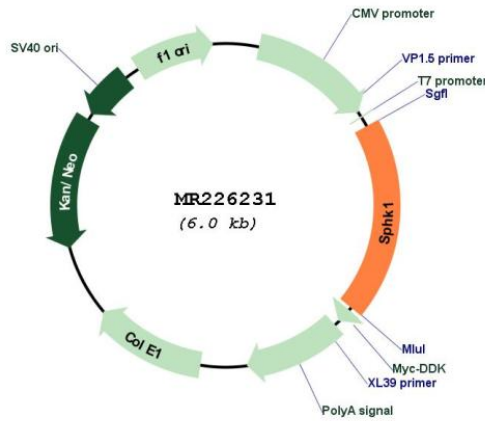
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001172472

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:	<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:	NM_001172472.2
RefSeq Size:	1880 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]