

Product datasheet for **MG226229**

Sphk1 (NM_025367) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sphk1 (NM_025367) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sphk1
Synonyms:	1110006G24Rik; SK; Sk1; Spk1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226229 representing NM_025367. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGAACCAGTAGAATGCCCTCGAGGACTGCTCCACGGCCATGCAGAGTGCTGGTGCTGCTGAACCCC
CAGGGTGGCAAGGGCAAGGCTCTGCAGCTCTCCAGAGCCGTGTGCAGCCCTTCTGGAGGAGGCAGAG
ATAACCTTTAACTGATACTCACCGAACGGAAGAACCATGCCAGGGAGCTGGTGTGTGCAGAGGAGTTG
GGTCACTGGGACGCCCTGGCAGTCATGTCCGGTATGGTCTGATGCATGAGGTGGTGAATGGGCTAATG
GAACGGCCCGACTGGGAGACTGCCATCCAGAAACCCCTGTGTAGCCTCCCTGGAGGCTCCGGCAATGCG
CTGGCAGCTTCTGTGAACCACTATGCTGGGTACGAACAGGTGACTAATGAAGACCTGCTCATCAACTGC
ACACTGCTGTTGTGCCGCGCGCCTGTACCCATGAACCTGCTGTCCCTGCACACTGCTTCTGGGCTG
CGGCTCTATTCTGTGCTCAGTCTGTCTGGGGCTTTGTTGCTGACGTGGACCTCGAGAGTGAGAAGTAC
AGGCGCTTGGGGGAGATTCGTTTCACAGTGGGCACCTTCTTTCGCCTAGCAAGCCTGCGCATCTACCAA
GGCCAAC TGGCCTACCTTCTGTAGGAAGTGTGGCCTCTAAGAGACCCGCTCTACACTGGTGCAGAAAG
GGCCCCGTCGACACACACCTTGTTCCTCTGGAGGAGCCAGTGCCTTCTCATTGGACTGTGGTACCAGAA
CAGGACTTTGTCTGGTGTGGTGTGTACACACCCACCTGAGCTCCGAGCTGTTTGCAGCACCCATG
GGCCGCTGTGAGGCTGGTGTATGCATCTGTTCTACGTACGTGCGGGGGTGTCAAGGGCTGCGCTGCTG
CGCCTTCTCCTGGCCATGCAGAAGGGCAAGCATATGGAACCTGACTGTCCATACCTGGTTCATGTGCC
GTGGTTGCTTTCCGCTTGAGCCAGGAGCCAGAGGGGGCTGTTTCTGTGGATGGAGAGCTGATGGTA
TGTGAAGCTGTGCAGGGCCAAGTGCACCCAAACTACCTTTGGATGGTCTGTGGCAGCAGAGATGCCCCA
TCCGGCCGGGACTCCCGCGGGGGCCACCTCCAGAAGAACCA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by MG226229
 Blue=ORF Red=Cloning site Green=Tag(s)

MEPVECPRGLLPRPCRVLVLLNPQGGKGLQLFQSRVQPFLEEAEITFKLILTERKNHARELVCAEEL
 GHWDALAVMSGDGLMHEVVNGLMERPDWETAIQKPLCSLPGGSGNALAASVNHYAGYEQVTNEDLLINC
 TLLLRRRLSPMNLSSLHTASGLRLYSVLSLWGFVADVLESEKYRRLGEIRFTVGTFFRLASLRIYQ
 GQLAYLPVGTVASKRPASTLVQKGPVDTHLVPLEEPVPSHWTVPPEQDFVLVLLHHTLSSELF AAPM
 GRCEAGVMHLFYVRAGVSRAALLRLFLAMQKKGKHMELDCPYLVHVPVVAFRLEPRSRQGVFSVDGELMV
 CEAVQGGVHPNYLWMVCGSRDAPSGRDSRRGPPPEEP
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

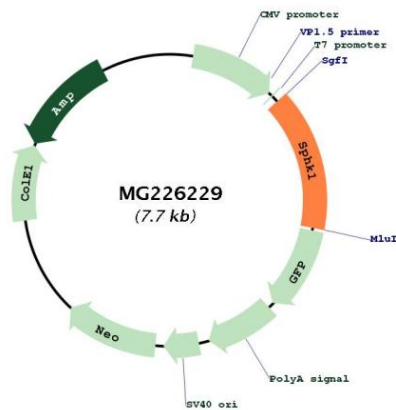
UniProt ID: [Q8CI15](#)

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 MG226229