

Product datasheet for **MG226232**

Sphk1 (NM_001172473) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sphk1 (NM_001172473) 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:	>MG226232 representing NM_001172473 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACCACTAGAAATGCCCTCGAGGACTGCTCCACGGCCATGCAGAGTCTGGTCTGCTGAACCCC
AGGGTGGCAAGGGCAAGGCTCTGCAGCTTCCAGAGCCGTGTGCAGCCCTTCTGGAGGAGGCAGAGAT
AACCTTTAACTGATACTCACCGAACGGAAGAACCATGCCAGGGAGCTGGTGTGCAGAGGAGTTGGGT
CACTGGGACGCCCTGGCAGTCATGTCGGTGATGGTCTGATGCATGAGGTGGTGAATGGCTAATGGAAC
GGCCAGACTGGGAGACTGCCATCCAGAAACCCCTGTGTAGCCTCCCTGGAGGCTCCGGCAATGCGCTGGC
AGCTTCTGTGAACCACTATGCTGGGTACGAGCAGGTGACTAATGAAGACCTGCTCATCAACTGCACACTG
CTGTTGTGCCCGCGCCTGTACCCATGAACCTGCTGTCCCTGCACACTGCTTCTGGGCTGCGGCTCT
ATTCTGTGCTCAGTCTGTCTGGGGCTTTGTTGCTGACGTGGACCTCGAGAGTGAGAAGTACAGGCGCTT
GGGGGAGATTCGTTTACAGTGGGCACCTTCTTTCGCCTAGCAAGCCTGCGCATCTACCAAGGCCAACTG
GCCTACCTTCTGTAGGAACTGTGGCCTAAGAGACCCGCTTACACTGGTGCAGAAGGGCCCGTCG
ACACACACCTTGTTCCTCGGAGGAGCCAGTGCCTTCTCATTGGACTGTGGTACCAGAACAGGACTTCGT
CCTGGTGTGGTCTGTACACACCCACCTGAGCTCCGAGCTGTTTGCAGACCCATGGGCCGCTGTGAG
GCTGGTGTATGCATCTGTTCTACGTACGTGCGGGGGTGTCAAGGGCTGCGCTGCGCCTCTTCTCTGG
CCATGCAGAAGGGCAAGCATATGGAACCTGACTGTCCATACCTGGTTTATGTGCCCGTGGTTGCTTTCCG
CCTGGAGCCAGGAGCCAGAGGGCGTGTCTTCTGTGGATGGAGAGCTGATGGTATGTGAAGCTGTGCAG
GGCCAAGTGCACCCAACTACCTTTGGATGGTCTGTGGCAGCAGAGATGCCCCATCCGGCCGGGACTCCC
GGCGGGGCCACCTCCAGAAGAACCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226232 representing NM_001172473
Red=Cloning site Green=Tags(s)

MEPVCEPRGLLPRPCRVLVLLNPQGGKALQLFQSRVQPFLEEAEITFKLILTERKNHARELVCAEELG
HWDALAVMSGDGLMHEVVNGLMERPDWETAIQKPLCSLPGGSGNALAASVNHAYGEQVTNEDLLINCTL
LLCRRRLSPMNLSSLHTASGLRLYSVLSLWGFVADVDLESEKYRRLGEIRFTVGTFFRLASLRIYQGQL
AYLPVGTVASKRPASTLVQKGPVDTHLVPLEEPVPSHWTVVPEQDFVLVLLHHTLSSELFAAPMGRCE
AGVMHLFYVRAGVSRAALLRFLAMQKGMELDCPYLVHVPVAFRLEPRSRQGVFVSDGELMVCEAVQ
GQVHPNYLWMVCGSRDAPSGRDSRRGPPPEEP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001172473

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: [NM_001172473.1](#), [NP_001165944.1](#)

RefSeq Size: 1766 bp

RefSeq ORF: 1149 bp

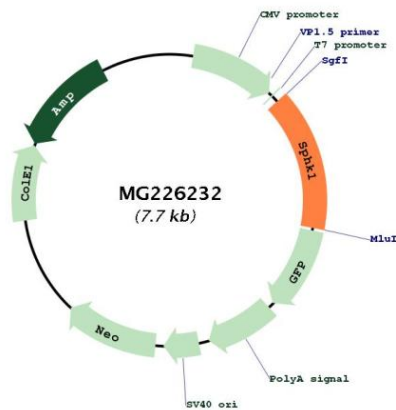
Locus ID: 20698

UniProt ID: [Q8CI15](#)

Cytogenetics: 11 E2

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 MG226232