

Product datasheet for **MG227335**

Sphk1 (NM_011451) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sphk1 (NM_011451) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sphk1
Synonyms:	1110006G24Rik; Sk1; Spk1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG227335 representing NM_011451 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGTGGTGTGTGTTTTGTTGTAGTAGAATGCCCTCGAGGACTGCTCCACGGCCATGCAGAGTGC
TGGTGCTGCTGAACCCCAAGGTGGCAAGGCAAGGCTCTGCAGCTCTCCAGAGCCGTGTGCAGCCCTT
CCTGGAGGAGGAGAGATAACCTTTAACTGATACTACCGAACGGAAGAACCATGCCAGGGAGCTGGT
TGTGCAGAGGAGTTGGTCACTGGGACGCCCTGGCAGTCATGTCCGGTGTGGTCTGATGCATGAGGTGG
TGAAATGGGCTAATGGAACGGCCAGACTGGGAGACTGCCATCCAGAAACCCTGTGTAGCCTCCCTGGAGG
CTCCGGCAATGCCTGGCAGCTTCTGTGAACCACTATGCTGGGTACGAGCAGGTGACTAATGAAGACCTG
CTCATCAACTGCACACTGCTGTTGTGCCGCCGGCCCTGTCAACCATGAACCTGTGTCCCTGCACACTG
CTTCTGGGCTGCGGCTCTATTCTGTGCTCAGTCTGTCTGGGGCTTTGTTGCTGACGTGGACCTCGAGAG
TGAGAAGTACAGGCGCTTGGGGGAGATTCGTTTCACAGTGGGCACCTTCTTTCGCCTAGCAAGCCTGCGC
ATCTACCAAGGCCAACTGGCCTACCTTCTGTAGGAAGTGTGGCCTCTAAGAGACCCGCCTTACTACTGG
TGCAGAAGGGCCCGTCGACACACACCTTGTTCTCTGGAGGAGCCAGTGCCTTCTATTGGACTGTGGT
ACCAGAACAGGACTTCGTCCTGGTGTGGTGTGCTACACACCCACCTGAGCTCCGAGCTGTTTGCAGCA
CCCATGGGCCCTGTGAGGCTGGTGTATGCATCTGTTCTACGTACGTGCGGGGGTGTCAAGGGCTGCGC
TGCTGCGCCTTCTCTGGCCATGCAGAAGGGCAAGCATATGGAACCTTGACTGTCCATACCTGGTTTCATGT
GCCCGTGGTTGCTTCCGCCTGGAGCCCAGGAGCCAGAGGGGCGTGTCTGTGGATGGAGAGCTGATG
GTATGTGAAGCTGTGCAGGGCCAAGTGCACCCAACTACCTTTGGATGGTCTGTGGCAGCAGAGATGCC
CATCCGGCCGGGACTCCCGCGGGGCCACCTCCAGAAGAACCA

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG227335 representing NM_011451
 Red=Cloning site Green=Tags(s)

MWWCCVLFVVECPRGLLPRPCRVLVLLNPQGGKGAALQLFQSRVQPFLEEAEITFKLILTERKNHARELV
 CAEELGHWDALAVMSGDGLMHEVVNGLMERPDWETAIQKPLCSLPGGSGNALAASVNHYAGYEQVTNEDL
 LINCTLLL CRRRLSPMNL LSLHTASGLRLYSVLSL SWGFVADVDLESEKYRRLGEIRFTVGTFFRLASLR
 IYQGQLAYLPVGTVASKRPASTLVQKGPVDTHL VPLEEPVPSHWTVVPEQDFVLVLLHHTLSSELFAA
 PMGRCEAGVMHLFYVRAGVSRALLRLFLAMQKGMELDCPYLVHVPVVAFRLEPRSQRGVFVSDGELM
 VCEAVQGQVHPNYLWMVCGSRDAPSGRDSRRGPPPEEP

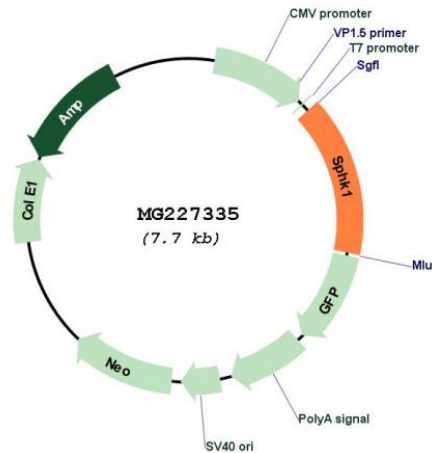
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_011451

ORF Size:	1164 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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_011451.3 , NP_035581.1
RefSeq Size:	1537 bp
RefSeq ORF:	1167 bp
Locus ID:	20698
UniProt ID:	Q8C115
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]