

## Product datasheet for **MG226231**

### Sphk1 (NM\_001172472) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sphk1 (NM_001172472) 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:	>MG226231 representing NM_001172472 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAACCACTAGAAATGCCCTCGAGGACTGCTCCACGGCCATGCAGAGTCTGGTCTGCTGAACCCC  
AGGGTGGCAAGGCAAGGCTCTGCAGCTTCCAGAGCCGTGTGCAGCCCTTCTGGAGGAGGCAGAGAT  
AACCTTTAACTGATACTCACCGAACGGAAGAACCATGCCAGGGAGCTGGTGTGCAGAGGAGTTGGGT  
CACTGGGACGCCCTGGCAGTCATGTCGGTGATGGTCTGATGCATGAGGTGGTGAATGGCTAATGGAAC  
GGCCAGACTGGGAGACTGCCATCCAGAAACCCCTGTGTAGCCTCCCTGGAGGCTCCGGCAATGCGCTGGC  
AGCTTCTGTGAACCACTATGCTGGGTACGAGCAGGTGACTAATGAAGACCTGCTCATCAACTGCACACTG  
CTGTTGTGCCCGCGCCTGTACCCATGAACCTGCTGTCCCTGCACACTGCTTCTGGGCTGCGGCTCT  
ATTCTGTGCTCAGTCTGTCTGGGGCTTTGTTGCTGACGTGGACCTCGAGAGTGAGAAGTACAGGCGCTT  
GGGGGAGATTCGTTTACAGTGGGCACCTTCTTTCGCCTAGCAAGCCTGCGCATCTACCAAGGCCAACTG  
GCCTACCTTCTGTAGGAACTGTGGCCTAAGAGACCCGCTTACACTGGTGCAGAAGGGCCCGTCG  
ACACACACCTTGTTCCTCGGAGGAGCCAGTGCCTTCTCATTGGACTGTGGTACCAGAACAGGACTTCGT  
CCTGGTGTGGTCTGCTACACACCCACCTGAGCTCCGAGCTGTTTGCAGACCCATGGGCCGCTGTGAG  
GCTGGTGTATGCATCTGTTCTACGTACGTGCGGGGTGTCAAGGGCTGCGCTGCGCCTCTTCTCTGG  
CCATGCAGAAGGCAAGCATATGGAACCTGACTGTCCATACCTGGTTCATGTGCCCGTGGTTGCTTTCCG  
CCTGGAGCCAGGAGCCAGAGGGCGTGTCTTCTGTGGATGGAGAGCTGATGGTATGTGAAGCTGTGCAG  
GGCCAAGTGCACCCAACTACCTTTGGATGGTCTGTGGCAGCAGAGATGCCCCATCCGGCCGGGACTCCC  
GGCGGGGCCACCTCCAGAAGAACCA

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226231 representing NM\_001172472  
 Red=Cloning site Green=Tags(s)

MEPVECPRGLLPRPCRVLVLLNPQGGKALQLFQSRVQPFLEEAEITFKLILTERKNHARELVCAEELG  
 HWDALAVMSGDGLMHEVVNGLMERPDWETAIQKPLCSLPGGSGNALAASVNHYAGYEQVTNEDLLINCTL  
 LLCRRRLSPMNL LSLHTASGLRLYSVLSL SWGFVADVDLESEKYRRLGEIRFTVGTFFRLASLRIYQGQL  
 AYL PVGT VASKRPASTLVQKGPVDTHLVPLEEPVPSHWTVVPEQDFVLVLLVLLHHTLSSELFAAPMGRCE  
 AGVMHLFYVRAGVSRAALLRFLAMQKKGKHMELDCPYLVHVPVVAFRLEPRSRQGVF SVDGELMVCEAVQ  
 GQVHPNYLWMVCGSRDAPSGRDSRRGPPPEEP

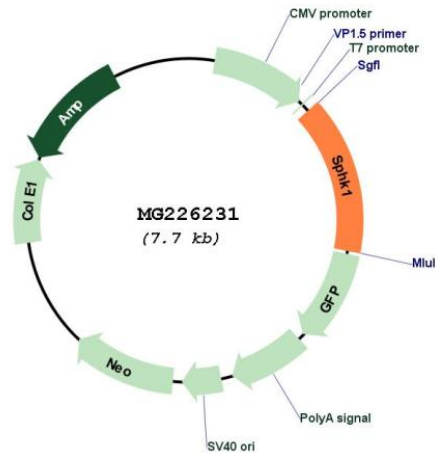
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001172472

<b>ORF Size:</b>	1146 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001172472.2</a>
<b>RefSeq Size:</b>	1880 bp
<b>RefSeq ORF:</b>	1149 bp
<b>Locus ID:</b>	20698
<b>UniProt ID:</b>	<a href="#">Q8C115</a>
<b>Cytogenetics:</b>	11 E2
<b>Gene Summary:</b>	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]