

## Product datasheet for **MC209438**

### Sphk1 (NM\_011451) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sphk1 (NM_011451) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sphk1
Synonyms:	1110006G24Rik; Sk1; Spk1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC209438 representing NM_011451 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

ATGTGGTGGTGTGTGTTTTGTTGTAGTAGAATGCCCTCGAGGACTGCTCCACGGCCATGCAGAGTGC  
TGGTGCTGCTGAACCCAGGGTGGCAAGGCAAGGCTCTGCAGCTCTCCAGAGCCGTGTGCAGCCCTT  
CCTGGAGGAGGAGAGATAACCTTTAACTGATACTACCGAACGGAAGAACCATGCCAGGGAGCTGGT  
TGTGCAGAGGAGTTGGTCACTGGGACGCCCTGGCAGTCATGTCCGGTGATGGTCTGATGCATGAGGTGG  
TGAATGGGCTAATGGAACGGCCAGACTGGGAGACTGCCATCCAGAAACCCCTGTGTAGCCTCCCTGGAGG  
CTCCGGCAATGCCTGGCAGCTTCTGTGAACCACTATGCTGGGTACGAGCAGGTGACTAATGAAGACCTG  
CTCATCAACTGCACACTGCTGTTGTGCCGCCGGCGCCTGTCAACCATGAACCTGTGTCCCTGCACACTG  
CTTCTGGGCTGCGGCTCTATTCTGTGCTCAGTCTGTCTGGGGCTTTGTTGCTGACGTGGACCTCGAGAG  
TGAGAAGTACAGGCGCTTGGGGGAGATTCTGTTTACAGTGGGCACCTTCTTTCGCCTAGCAAGCCTGCGC  
ATCTACCAAGGCCAACTGGCCTACCTTCTGTAGGAAGTGTGGCTCTAAGAGACCCGCCTCTACACTGG  
TGCAGAAGGGCCCCGTCGACACACACCTTGTTCTCTGGAGGAGCCAGTGCCTTCTCATTGGACTGTGGT  
ACCAGAACAGGACTTCGTCCTGGTGTGGTGTCTACACACCCACCTGAGCTCCGAGCTGTTTGCAGCA  
CCCATGGGCCCTGTGAGGCTGGTGTATGCATCTGTTCTACGTACGTGCGGGGTGTCAAGGGCTGCGC  
TGCTGCGCCTTCTCTGGCCATGCAGAAGGGCAAGCATATGGAACCTTGACTGTCCATACCTGGTTTCATGT  
GCCCCGTGGTTGCTTCCGCTGGAGCCCAGGAGCCAGAGGGGCGTGTTTCTGTGGATGGAGAGCTGATG  
GTATGTGAAGCTGTGCAGGGCCAAGTGCACCCAACTACCTTTGGATGGTCTGTGGCAGCAGAGATGCC  
CATCCGGCCGGGACTCCCGCGGGGGCCACCTCCAGAAGAACC**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-MluI
<b>ACCN:</b>	NM_011451
<b>Insert Size:</b>	1167 bp
<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_011451.3</a> , <a href="#">NP_035581.1</a>
<b>RefSeq Size:</b>	1537 bp
<b>RefSeq ORF:</b>	1167 bp
<b>Locus ID:</b>	20698
<b>UniProt ID:</b>	<a href="#">Q8CI15</a>
<b>Cytogenetics:</b>	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]

Transcript Variant: This variant (1) represents the shortest transcript and encodes the longest isoform (1). This isoform is also known as Sphk1b. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.