

## Product datasheet for MC218244

### Sphk1 (NM\_001172475) Mouse Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Sphk1 (NM\_001172475) Mouse Untagged Clone  
 Tag: Tag Free  
 Symbol: Sphk1  
 Synonyms: 1110006G24Rik; SK; Sk1; Spk1  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 Fully Sequenced ORF: >MC218244 representing NM\_001172475  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAACCAGAATGCCCTCGAGGACTGCTCCACGGCCATGCAGAGTGTGGTGTCTGAACCCAGG  
 GTGGCAAGGGCAAGGCTCTGCAGCTCTCCAGAGCCGTGTGCAGCCCTTCTGGAGGAGGCAGATAAC  
 CTTTAAACTGATACTACCGAACGGAAGAACCATGCCAGGAGCTGGTGTGTGCAGAGGAGTTGGGTCAC  
 TGGGACGCCCTGGCAGTCATGTCCGGTGTGGTCTGATGCATGAGGTGGTGAATGGGCTAATGGAACGGC  
 CAGACTGGGAGACTGCCATCCAGAAACCCCTGTGTAGCCTCCCTGGAGGCTCCGGCAATGCGCTGGCAGC  
 TTCTGTGAACCACTATGCTGGGTACGAGCAGGTGACTAATGAAGACCTGCTCATCAACTGCACACTGCTG  
 TTGTGCCCGCCGGCCTGTCAACCATGAACCTGCTGTCCCTGCACACTGCTTCTGGGCTGCGGCTCTATT  
 CTGTGCTCAGTCTGTCTGGGGCTTTGTTGCTGACGTGGACCTCGAGAGTGAGAAGTACAGGCGCTTGGG  
 GGAGATTCGTTTCACAGTGGGCACCTTCTTTCCCTAGCAAGCCTGCGCATCTACCAAGGCCAACTGGCC  
 TACCTTCTGTAGGAACGTGGCCTCTAAGAGACCCGCCCTACACTGGTGCAGAAGGGCCCGCTCGACA  
 CACACCTTGTTCCTCTGGAGGAGCCAGTGCCTTCTCATTGGACTGTGGTACCAGAAGGACTTGTCTCT  
 GGTGCTGGTGTCTACACCCACCTGAGCTCCGAGCTGTTTGCAGCACCCATGGGCCGCTGTGAGGCT  
 GGTGTTATGCATCTGTTCTACGTACGTGCGGGGTGTCAAGGGCTGCGCTGCTGCGCCTTCTCTGGCCA  
 TGCAGAAGGGCAAGCATAATGGAACCTGACTGTCCATACCTGGTTCATGTGCCCGTGGTTGCTTCCGCCCT  
 GGAGCCCAGGAGCCAGAGGGGCGTGTCTTCTGTGGATGGAGAGCTGATGGTATGTGAAGCTGTGCAGGGC  
 CAAGTGCACCCAACTACCTTTGGATGGTCTGTGGCAGCAGAGATGCCCATCCGGCCGGGACTCCCGGC  
 GGGGGCCACCTCCAGAAGAACC**TAA**

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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<b>ACCN:</b>	NM_001172475
<b>Insert Size:</b>	1146 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<u><a href="#">NM_001172475.1</a></u> , <u><a href="#">NP_001165946.1</a></u>
<b>RefSeq Size:</b>	1805 bp
<b>RefSeq ORF:</b>	1146 bp
<b>Locus ID:</b>	20698
<b>UniProt ID:</b>	<u><a href="#">Q8CI15</a></u>
<b>Cytogenetics:</b>	11 E2
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (5) differs in the 5' UTR and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (3) has a distinct N-terminus and is shorter than isoform 1. This isoform is also known as Sphk1a. 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.</p>