

## Product datasheet for RN216532

### Sphk1 (NM\_001270809) Rat Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Sphk1 (NM\_001270809) Rat Untagged Clone  
 Tag: Tag Free  
 Symbol: Sphk1  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 Fully Sequenced ORF: >RN216532 representing NM\_001270809  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGGATCGCC

ATGCAACCAGCAGACTGTCCCCGGGACTGCTCCACGGCCATGCAGAGTGTGGTGTCTGAACCCC  
 GGGGTGGCAAGGCAAGGCTCTGAAGCTCTTTAGAGCCGTGTGCGGCCCTTCTGGAGGAGGCTGAGGT  
 ATCCTTTAAACTGATGCTCACCGAACGGCAGAACCATGCCAGGGAGCTGGTGTGCAGAAGAAGCTGGGT  
 CACTGGGATGCCTTGGCGGTGATGTCGGGTGACGGTCTGATGCACGAGGTGGTGAATGGGCTAATGGAAC  
 GACCTGACTGGGAGAGTGCCATCCAGAAACCCCTATGTAGCCTCCCTGGAGGCTCTGGCAATGCGTGGC  
 AGCTTCTTTGAAGTACTATGCTGGGCACGAGCAGGTCACTAATGAAGATCTCCTGATCAACTGCACACTG  
 CTGTTATGCTGCCGCGAGCTGTACCCATGAATCTGCTGTCCCTGCACACCGCTCCGGACGGCAACTCT  
 ATTCTGTTCTCAGTCTGTCTGGGGTTTCGTTGCTGACGTGGACTTGGAGAGTGAGAAATACAGGAGCTT  
 GGGGGAGATTCGTTTACGGTGGGAACCTTTTTTCGCTAGCAAGCCTGCGCATTACCAAGGCCAACTG  
 GCCTACCTTCTGTAGGGAAGGCTGCCTCTAAGATACCTGCTTCCCTCACTGGCACAGAAGGGCCCTGCCA  
 ACACATACCTCGTTCCTCTGGAGGAGCCAGTGCCACCTCATTGGACTGTGGTGCCAGAGCAGGACTTCGT  
 TCTGGTGTGGTGTCTTACACCCACCTGAGCACAGAGATGTTTGCAGCACCCATGGGCCGCTGCGAG  
 GCTGGTGTATGCATCTGTTCTATATACGTGCGGGGTGTCAAGGGCCATGCTGCTGCGCCTTCTCTGG  
 CCATGCAGAAGGGCAAGCATATGGACCTCGACTGCCCGTACTTGGTTTCAATGTGCCAGTGGTTGCCTCCG  
 CCTGGAACCCAGGAACCAGAGGGGAGTGTCTTCTGTGGACGGGGAGCTGATGGTGTGTGAAGCTGTGCAG  
 GGCAAGTGCACCCAACTACCTTTGGATGGTCTCTGGTAGCAGTGACTCCCCGTCCGGCCGGGACTCCC  
 AGCGGAGGCCACCTCCAGAAGAACAATATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI  
 ACCN: NM\_001270809



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<b>Insert Size:</b>	1152 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>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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_001270809.1</a></u> , <u><a href="#">NP_001257738.1</a></u>
<b>RefSeq Size:</b>	1879 bp
<b>RefSeq ORF:</b>	1152 bp
<b>Locus ID:</b>	170897
<b>UniProt ID:</b>	<u><a href="#">Q91V26</a></u>
<b>Cytogenetics:</b>	10q32.1-q32.2
<b>Gene Summary:</b>	<p>catalyzes the conversion of sphingosine to sphingosine 1 phosphate, which plays a role in cell proliferation and differentiation [RGD, Feb 2006]</p> <p>Transcript Variant: This variant (4) uses an alternate splice junction at the 3' end of the first exon compared to variant 1. The resulting isoform (b) is shorter at the N-terminus compared to isoform a. Variants 2, 3, 4, 5, and 6 all encode the same isoform (b). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>