

## Product datasheet for RN216530

### Sphk1 (NM\_001270807) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Sphk1 (NM\_001270807) 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:** >RN216530 representing NM\_001270807  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGCAACCAGCAGACTGTCCCCGGGACTGCTCCACGGCCATGCAGAGTGTGGTGTCTGAACCCC  
 GGGGTGGCAAGGCAAGGCTCTGAAGCTCTTTAGAGCCGTGTGCGGCCCTTCTGGAGGAGGCTGAGGT  
 ATCCTTTAAACTGATGCTCACCGAACGGCAGAACCATGCCAGGGAGCTGGTGTGCAGAAGAAGCTGGGT  
 CACTGGGATGCCTTGGCGGTGATGTCGGGTGACGGTCTGATGCACGAGGTGGTGAATGGGCTAATGGAAC  
 GACCTGACTGGGAGAGTGCCATCCAGAAACCCCTATGTAGCCTCCCTGGAGGCTCTGGCAATGCGTGGC  
 AGCTTCTTTGAAGTACTATGCTGGGCACGAGCAGGTCACTAATGAAGATCTCCTGATCAACTGCACACTG  
 CTGTTATGCTGCCGCGAGCTGTACCCATGAATCTGCTGTCCCTGCACACCGCTCCGGACGGCAACTCT  
 ATTCTGTTCTCAGTCTGTCTGGGGTTTCGTTGCTGACGTGGACTTGGAGAGTGAGAAATACAGGAGCTT  
 GGGGGAGATTCGTTTACGGTGGGAACCTTTTTCGCCTAGCAAGCCTGCGCATTTACCAAGGCCAACTG  
 GCCTACCTTCTGTAGGGAAGGCTGCCTCTAAGATACCTGCTTCCCTCACTGGCACAGAAGGGCCCTGCCA  
 ACACATACCTCGTTCCTCTGGAGGAGCCAGTGCCACCTCATTGGACTGTGGTGCCAGAGCAGGACTTCGT  
 TCTGGTGTGGTGTCTTACACCCACCTGAGCACAGAGATGTTTGCAGCACCCATGGGCCGCTGCGAG  
 GCTGGTGTATGCATCTGTTCTATATACGTGCGGGGTGTCAAGGGCCATGCTGTGCGCCTCTTCTGG  
 CCATGCAGAAGGGCAAGCATATGGACCTCGACTGCCCGTACTTGGTTTCATGTGCCAGTGGTTGCCTCCG  
 CCTGGAACCCAGGAACCAGAGGGGAGTGTCTTCTGTGGACGGGGAGCTGATGGTGTGTGAAGCTGTGCAG  
 GGCCAAGTGCACCCAACTACCTTTGGATGGTCTCTGGTAGCAGTGACTCCCCGTCCGGCCGGGACTCCC  
 AGCGGAGGCCACCTCCAGAAGAACCAATATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001270807



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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_001270807.1</a></u> , <u><a href="#">NP_001257736.1</a></u>
<b>RefSeq Size:</b>	1929 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 (2) uses an alternate 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>