

Product datasheet for **RN216714**

Sphk1 (NM_001270811) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sphk1 (NM_001270811) 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:	>RN216714 representing NM_001270811 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAACTGGACTCTCCACCAACCTCAAAGGATCTGGCCGCTCCGGGAATGACGAGGGCGCTCTCACAG
CCCAGGGAGGTGGAGAGGGCGAGCCCCACGGCCAGTACCAGACACCCGCTGGCAACACCGATAAGCA
GCTGCACACTGGAGCCCGCTTACCTCTAGCAGCGCCGGGCAGCATCGGTGGCTCCTTGTACCGGGAG
CCCCGGGACCTGGCTATGCAACCAGCAGACTGTCCCCGGGACTGCTCCACGGCCATGCAGAGTGTGG
TGCTGCTGAACCCCGGGTGGCAAGGGCAAGGCTCTGAAGCTCTTTCAGAGCCGTGTGCGGCCCTTCT
GGAGGAGGCTGAGGTATCCTTTAACTGATGCTCACCGAACGGCAGAACCATGCCAGGGAGCTGGTGTGT
GCAGAAGAAGTGGTCACTGGGATGCCTTGGCGGTGATGTCGGTGACGGTCTGATGCACGAGGTGGTGA
ATGGGCTAATGGAACGACCTGACTGGGAGAGTGCCATCCAGAAACCCCTATGTAGCCTCCCTGGAGGCTC
TGGCAATGCGCTGGCAGCTTCTTTGAACTACTATGCTGGGCACGAGCAGGTCATAATGAAGATCTCCTG
ATCAACTGCACACTGCTGTTATGCTGCCGCAGCTGTACCCATGAATCTGCTGTCCCTGCACACCGCTT
CCGGACGGCAACTCTATTCTGTTCTCAGTCTGTCTGGGGTTTCGTTGCTGACGTGGACTTGGAGAGTGA
GAAATACAGGAGCTTGGGGGAGATTTCGTTTCACGGTGGGAACCTTTTTTCGCCTAGCAAGCTGCGCATT
TACCAAGGCCAACTGGCCTACCTTCTGTAGGGAAGGCTGCCTCTAAGATACCTGCTTCCCTCACTGGCAC
AGAAGGGCCCTGCCAACACATACCTCGTTCCTCTGGAGGAGCCAGTGCCACCTCATTGGACTGTGGTGCC
AGAGCAGGACTTCGTTCTGGTGTGGTGTGCTTACACCCACCTGAGCACAGAGATGTTTGACGACCC
ATGGGCCGCTGCGAGGCTGGTGTATGCATCTGTTCTATACGTGCGGGGGTGTCAAGGGCCATGCTGC
TGCGCCTCTTCTGGCCATGCAGAAGGGCAAGCATATGGACCTCGACTGCCCGTACTTGGTTCATGTGCC
AGTGGTTGCCCTCCGCTGGAACCCAGGAACAGAGGGGAGTGTTCCTGTGGACGGGGAGCTGATGGTG
TGTGAAGCTGTGACGGGCAAGTGACCCAACTACCTTTGGATGGTCTCTGGTAGCAGTGACTCCCCGT
CCGGCCGGGACTCCAGCGGAGGCCACCTCCAGAAGAACAATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001270811
Insert Size:	1377 bp
OTI Disclaimer:	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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
Components:	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).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
RefSeq:	<u>NM_001270811.1</u> , <u>NP_001257740.1</u>
RefSeq Size:	2915 bp
RefSeq ORF:	1377 bp
Locus ID:	170897
UniProt ID:	<u>Q91V26</u>
Cytogenetics:	10q32.1-q32.2
Gene Summary:	<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 (1) encodes the longer isoform (a). 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>