

Product datasheet for **RN216533**

Sphk1 (NM_001270810) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sphk1 (NM_001270810) 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: >RN216533 representing NM_001270810
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAACCAGCAGACTGTCCCCGGGACTGCTCCACGGCCATGCAGAGTGTGGTGTCTGAACCCC
GGGGTGGCAAGGCAAGGCTCTGAAGCTCTTTAGAGCCGTGTGCGGCCCTTCTGGAGGAGGCTGAGGT
ATCCTTTAAACTGATGCTCACCGAACGGCAGAACCATGCCAGGGAGCTGGTGTGCAGAAGAAGCTGGGT
CACTGGGATGCCTTGGCGGTTCATGTCCGGTGACGGTCTGATGCACGAGGTGGTGAATGGGCTAATGGAAC
GACCTGACTGGGAGAGTGCCATCCAGAAACCCCTATGTAGCCTCCCTGGAGGCTCTGGCAATGCGTGGC
AGCTTCTTTGAAGTACTATGCTGGGCACGAGCAGGTCACTAATGAAGATCTCCTGATCAACTGCACACTG
CTGTTATGCTGCCGCGAGCTGTACCCATGAATCTGCTGTCCCTGCACACCGCTCCGGACGGCAACTCT
ATTCTGTTCTCAGTCTGTCTGGGGTTTCGTTGCTGACGTGGACTTGGAGAGTGAGAAATACAGGAGCTT
GGGGGAGATTCGTTTACGGTGGGAACCTTTTTCGCCTAGCAAGCCTGCGCATTACCAAGGCCAACTG
GCCTACCTTCTGTAGGGAAGGCTGCCTCTAAGATACCTGCTTCCCTCACTGGCACAGAAGGGCCCTGCCA
ACACATACCTCGTTCCTCTGGAGGAGCCAGTGCCACCTCATTGGACTGTGGTGCCAGAGCAGGACTTCGT
TCTGGTGTGGTGTCTTACACCCACCTGAGCACAGAGATGTTTGCAGACCCATGGGCCGCTGCGAG
GCTGGTGTATGCATCTGTTCTATATACGTGCGGGGTGTCAAGGGCCATGCTGCTGCGCCTTCTCTGG
CCATGCAGAAGGGCAAGCATATGGACCTCGACTGCCCGTACTTGGTTTCATGTGCCAGTGGTTGCCTCCG
CCTGGAACCCAGGAACCAGAGGGGAGTGTCTTCTGTGGACGGGGAGCTGATGGTGTGTGAAGCTGTGCAG
GGCAAGTGCACCAAACCTTTGGATGGTCTCTGGTAGCAGTGACTCCCCGTCCGGCCGGGACTCCC
AGCGGAGGCCACCTCCAGAAGAACCAAT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001270810



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Insert Size:	1152 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_001270810.1</u> , <u>NP_001257739.1</u>
RefSeq Size:	2565 bp
RefSeq ORF:	1152 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 (5) 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>