

## Product datasheet for **RR216533**

### Sphk1 (NM\_001270810) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sphk1 (NM_001270810) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sphk1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR216533 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGCAACCAGCAGACTGTCCCCGGGGACTGCTCCACGGCCATGCAGAGTGTGGTGCTGCTGAACCCCGGGGTGGCAAGGGCAAGGCTCTGAAGCTCTTCAGAGCCGTGTGCGGCCCTTCTGGAGGAGGCTGAGGTATCCTTTAAACTGATGCTCACCGAACGGCAGAACCATGCCAGGGAGCTGGTGTGTGCAGAAGAAGTGGGTCACTGGGATGCCTTGGCGGTCAATGTCCGGTGACGGTCTGATGCACGAGGTGGTGAATGGGCTAATGGAACGACCTGACTGGGAGAGTGCCATCCAGAAACCCCTATGTAGCCTCCCTGGAGGCTCTGGCAATGCGCTGGCAGCTTCTTGAACACTATGCTGGGCACGAGCAGGTCACTAATGAAGATCTCTGATCAACTGCACACTGCTGTTATGCTGCCGGCAGCTGTACCCATGAATCTGCTGTCCCTGCACACCGCTTCCGGACGGCAACTCTATTCTGTTCTCAGTCTGTCTGGGGTTTCGTTGCTGACGTGGACTTGGAGAGTGAGAAATACAGGAGCTTGGGGAGATTCGTTTACGGTGGGAACCTTTTTTCGCCTAGCAAGCCTGCGCATTTACCAAGGCCAACTGGCCTACCTTCTGTAGGGAAGGCTGCCTAAGATACCTGCTTCCCTCACTGGCACAGAAGGGCCCTGCCAACACATACCTCGTTCCTCTGGAGGAGCCAGTGCCACCTCATTGGACTGTGGTGCCAGAGCAGGACTTCGTCTGGTGTGTGCTGCTTACACCCACCTGAGCACAGAGATGTTTGCAGACCCATGGGCCGCTGCGAGGCTGGTGTATGCATCTGTTCTATATACGTGCGGGGGTCAAGGGCCATGCTGCTGCGCCTCTTCTGGCCATGCAGAAGGGCAAGCATATGGACCTCGACTGCCCGTACTTGGTTCATGTGCCAGTGGTTGCCTCCGCCTGGAACCCAGGAACCAGAGGGGAGTGTCTTCTGTTGGACGGGGAGCTGATGGTGTGTGAAGCTGTGCAGGCCAAGTGACCCAACTACCTTTGGATGGTCTCTGGTAGCAGTGACTCCCCGTCCGGCCGGGACTCCAGCGGAGGCCACCTCCAGAAGAACCAATA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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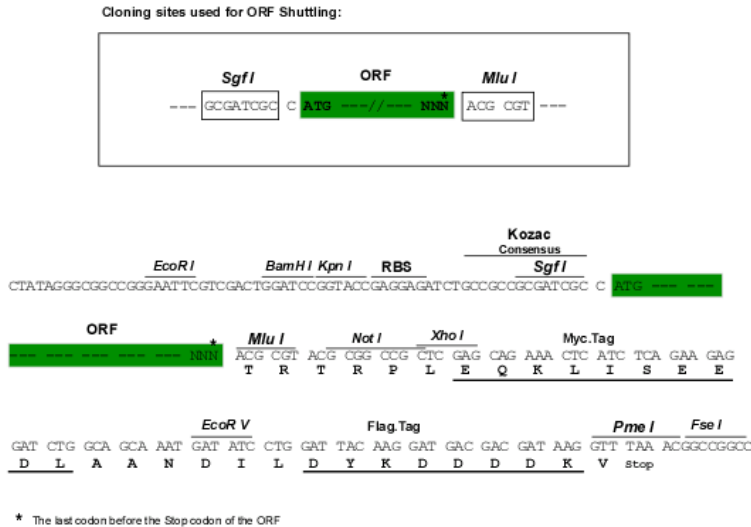
**Protein Sequence:** >RR216533 protein sequence  
 Red=Cloning site Green=Tags(s)

MQPADCPRGLLPRPCRVLVLLNPRGGKALKLFQSRVRPLLEEAEVSFKMLLTERQNHARELVCAEELG  
 HWDALAVMSGDGLMHEVVNGLMERPDWESAIQKPLCSLPGGSGNALAASLNYYAGHEQVTNEDLLINCTL  
 LLCCRQLSPMNLSSLHTASGRQLYSVLSLWGFVADVDLESEKYRSLGEIRFTVGTFFRLASLRIYQGQL  
 AYLPGVKAASKIPASSLAQKGPANTYLVPLEEPVPPHWTVVPEQDFVLVLLHHTLSTEMFAAPMGRCE  
 AGVMHLFYIRAGVSRAMLLRFLAMQKKGKHMDDLDCPYLVHVPVAFRLEPRNQRGVFSVDGELMVCEAVQ  
 GQVHPNYLWMVSGSSDSPSGRDSQRRPPPEEPI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001270810

**ORF Size:** 1149 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**

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:** [NM\\_001270810.1](#), [NP\\_001257739.1](#)

**RefSeq Size:** 2565 bp

**RefSeq ORF:** 1152 bp

**Locus ID:** 170897

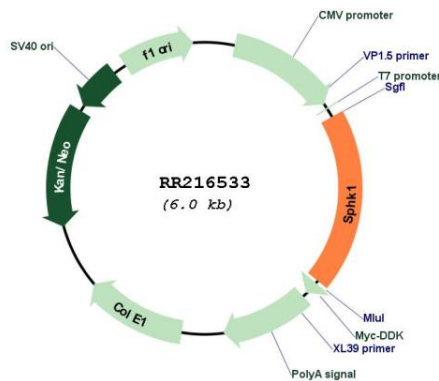
**UniProt ID:** [Q91V26](#)

**Cytogenetics:** 10q32.1-q32.2

**MW:** 42.4 kDa

**Gene Summary:** catalyzes the conversion of sphingosine to sphingosine 1 phosphate, which plays a role in cell proliferation and differentiation [RGD, Feb 2006]

### Product images:



Circular map for RR216533