

## Product datasheet for **RN207193**

### **Sphk2 (NM\_001012066) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Sphk2 (NM_001012066) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Sphk2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN207193 representing NM\_001012066  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCCCACCACACTACTGCCAGTGGCTGCCAGCACTCCGATCCTGCACGGCGAGTTGGTTCCTACC  
 CAGCCCATGGCCCCAGGTTTGCCTCACCTCAGGACACAAGCCCTACACATACAGCGACTGCGCCAAA  
 GCCAGAAGCCCGGCCCGAGATGGTCTAGTCCCTCTGGACGAGGTCTCAGGCTGTGGCACTCTGCAGAGC  
 CGTAGCCCGAAGACACTGCAGCCTACTTCTGCATCTACACCTACCCACGTGGCCGGCGTGGGGCCGGC  
 GCAGAGCTACTCGTACCTCCGGGCCGACGGGGCCCACTTATGTGGAGAATCGTCAGAGGCCACGC  
 TTGGGCAACTGCTCTCATGTGTCTCCTCCGAGGAGTGCCTCTGTCTGGGACCAGGAAATCACCCCTGAA  
 TTGCTGCCCGGAAGCCAGGCTGCTCCTATTGGTCAATCCTTTTGGGGGCGGGCCCTGGCTGGCAGC  
 GCTGTATGGACCAGTGGTGCCCATGATCTCTGAAGCTGGGCTGTCTTCAACCTCATACAGACAGAACG  
 AAAAAACCATGCACGTGAGCTGGTGCAGGGTTGAGCCTGAGTGAGTGGGAAGGCATTGCTACTGTGTCC  
 GGAGATGGGCTGCTTTATGAGGTGCTGAATGGGCTCCTCGACCGCCAGATTGGGAAGACGCTGTGCGGA  
 TGCCCATTTGGTGTCTCCCTGTGGTTCGGGCAATGCACTAGCTGGGCGAGTAAACCATCATGGCGGTT  
 TGAGCAAAGTGTGGTGTGACCTGTTGCTCAACTGCTCGCTTCTTCTGCCGGGGTGGCAGCCATCCT  
 CTGGACCTGCTCTCTGTGACGCTAGCCTCAGGATCCCGCTGTTTTTCTTCTGTGAGTTGCTGGGGAT  
 TCTTGTGAGATGTGGACATTACAGCGAGCGCTTCAGAGCCCTGGGCAGTGTGATTACACTGGGTGC  
 AGTGCTAGGCCTGGCCACATTGCATACCTACCGTGGACGTCTCTCTACCTCCCTGCTACCACAGAACCA  
 GCCTTGCCCATCCAGGCCATGGTCTGCCAAGAGCCAAGTCAGAACTAGCCTTGGCCCCAGCCCCAGCCC  
 CAGCCGCCACCCACTCACCTTTCATCGATCTGTGTCTGACCTGCCCTGCCTTCCCCAGCCTGCCCT  
 GGCTCCCTGGCTCCCTGAGCCCTGCCTGACCTGTCCCTCAATGGTGGTGGTCCAGAGCTGACTGGA  
 GACTGGGGGGGAGCTGGGGATGCACCTTTGCCCCAGACCATTGCTGCCTTATCCCCAACGCTTTCA  
 AAACAGCTCAGCTTTCACCCATCGCCGAAGGGCCCTCAGAAATGCCAGCATCAGGGCTGCTGCCTCCAT  
 CCACAATGCTCCAGAAGCCTCTACCTGGGGCCAGCGACCACCTGCTCCCTCCCTGGGCTCTCCACTG  
 CCCAAGACTGGGTGACAATAGAGGGGGAGTTGTACTCATGTTGGCCATCTTGCCAAGCCACCTTGCG  
 CAGACCTGATGGCAGCCCCACGCGCTTTTGTGACGATGGTGTGGTGCACCTGTGCTGGGTGCGGAGCGG  
 CATCTCACGGGCCGACTTCTACGAATTTGCTGGCCATGGAACATGAAACCACTTACGCTGGGCTGC  
 CCACATCTGGGCTATGCTGCAGCACGTGCCTTCCGCCTTGAGCCACTCACGCCTCGTGGGTGCTCACTG  
 TAGATGGGAATTAGTAGAGTATGGGCCAATACAGGCACAGGTGCATCCAAGTCTCGCCACACTGCTCAC  
 TGGGCTGCAGGTCAAAGCCTCGAGC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001012066  
**Insert Size:** 1851 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_001012066.1](#), [NP\\_001012066.1](#)

**RefSeq Size:** 2408 bp

**RefSeq ORF:** 1851 bp

**Locus ID:** 308589

**Cytogenetics:** 1q22