

Product datasheet for **RR207193**

Sphk2 (NM_001012066) Rat Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>RR207193 representing NM_001012066
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCCACCACACTACTGCCAGTGGCTGCCAGCACTCCGATCCTGCACGGCAGTGGTTGTTCTACC
 CAGCCCATGGCCCCAGGTTTGCCTCACCTCAGGACACAAGCCCTACACATACAGCGACTGCGCCAAA
 GCCAGAAGCCCGGCCCGAGATGGTCTAGTCCCTCTGGACGAGGTCTCAGGCTGTGGCACTCTGCAGAGC
 CGTAGCCCCGAAGACACTGCAGCCTACTTCTGCATCTACACCTACCCACGTGGCCGGCGTGGGGCCGGC
 GCAGAGCTACTCGTACCTCCGGGCCGACGGGGCCCACTTATGTGGAGAATCGTCAGAGGCCACGC
 TTGGGCAACTGCTCATGTGTCTCCTCCGAGGAGTGCCTCTGTCTGGGACCAGGAAATCACCCCTGAA
 TTGCTGCCCGGAAGCCAGGCTGCTCCTATTGGTCAATCCTTTGGGGGGCGGGCCTGGCCTGGCAGC
 GCTGTATGGACCAGTGGTGCCCATGATCTCTGAAGCTGGGCTGTCTTCAACCTCATACAGACAGAACG
 AAAAAACCATGCACGTGAGCTGGTGCAGGGTTGAGCCTGAGTGAGTGGGAAGGCATTGCTACTGTGTCC
 GGAGATGGGCTGCTTATGAGGTGCTGAATGGGCTCCTCGACCGCCAGATTGGGAAGACGCTGTGCGGA
 TGCCCATTTGGTGTCTCCCTGTGGTTCGGGCAATGCACTAGCTGGGCGAGTAAACCATCATGGCGGGT
 TGAGCAAAGTGTGGTGTGACCTGTTGCTCAACTGCTCGCTTCTTCTGCCGGGGTGGCAGCCATCCT
 CTGGACCTGCTCTGTGACGCTAGCCTCAGGATCCCGCTGTTTTCTTCTCTGTGAGTTGCCTGGGGAT
 TCTTGTGAGATGTGGACATTACAGCGAGCGCTTCAGAGCCCTGGGCACTGCTCGATTACACTGGGTGC
 AGTGCTAGGCTGGCCACATTGCATACCTACCGTGGACGTCTCTCTACCTCCCTGCTACCACAGAACCA
 GCCTTGCCCATCCAGGCCATGGTCTGCCAAGAGCCAAGTCAGAACTAGCCTTGGCCCCAGCCCCAGCCC
 CAGCCGCCACCCACTCACCTCTTACATCGATCTGTGTCTGACCTGCCCTGCCTCTTCCCCAGCCTGCCCT
 GGCTCCCTGGCTCCCTGAGCCCTGCCTGACCTGTCCCTCAATGGTGGTGGTCCAGAGCTGACTGGA
 GACTGGGGGGGAGCTGGGGATGCACCTTTGTCCCCAGACCCATTGCTGCCTTATCCCCAACGCTTTC
 AAACAGCTCAGCTTTCACCCATCGCCGAAGGGCCCTCAGAAATGCCAGCATCAGGGCTGCTGCCTCCAT
 CCACAATGCTCCAGAAGCCTCTACCTGGGGCCAGCGACCACCTGCTCCCTCCCTGGGCTCTCCACTG
 CCCAAGACTGGGTGACAATAGAGGGGGAGTTGTACTCATGTTGGCCATCTGCCAAGCCACCTCTGCG
 CAGACCTGATGGCAGCCCCACACGCGCTTTTACGATGGTGTGGTGCACCTGTGCTGGGTGCGGAGCGG
 CATCTCAGGGCCGCACTTCTACGAATTTGCTGGCCATGGAACATGAAACCACTTACGCTGGGCTGC
 CCACATCTGGGCTATGCTGCAGCAGTGCCTTCCGCTTGGCCACTCACGCTCGTGGGTGCTACTG
 TAGATGGGAATTAGTAGAGTATGGGCAATACAGGCACAGGTGCATCCAAGTCTCGCCACTGCTCAC
 TGGCCTGCAGGTCAAAGCCTCGAGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR207193 representing NM_001012066
 Red=Cloning site Green=Tags(s)

MAPPPLLPVAASTPILHGEFGSYPAHGPRFALTLTTQALHIQRLRPKPEARPRDGLVPLDEVSGCGTLQS
 RSPEDTAAAYFCIYTYPRRRRGGRRRATRTFRADGAATYVENRAEAQRWATALMCLLRGVPLSGDQEITPE
 LLPRKPRLLLLVNPFGGRGLAWQRCMDHVPMISEAGLSFNLIQTERQNHARELVQGLSLSEWEGIVTVS
 GDGLLYEVLNGLLDRPDWEDAVRMPIGVLP CGSGNALAGAVNHGGFEQTVGVLLLLNCSLLL CRGGSH
 LDLLSVTLASGRSFCFLSVAWGFLSDVDIHSERFRALGSARFTLGAVLGLATLHTYRGRSLYPATTEP
 ALPIPGHGLPRAKSELALAPAPAPAATHSPLHRSVSDLPPLPQPALASPGSPEPLPDLNLGGGPELTG
 DWGGAGDAPLSPDPLPSSPNAFKTAQLSPIAEGPSEMPASGLLPIIHNAPEASTWGPADHLLPPLGSPL
 PQDWVTIEGEFVLMALILPSHLCADLMAAPHARFDDGVVHLCWVRSGISRAALLRILLAMEHGNHFLSGC
 PHLGYAAARAARLEPLTPRGVLTVDGELVEYGPIQAQVHPSLATLLTGPAQKPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

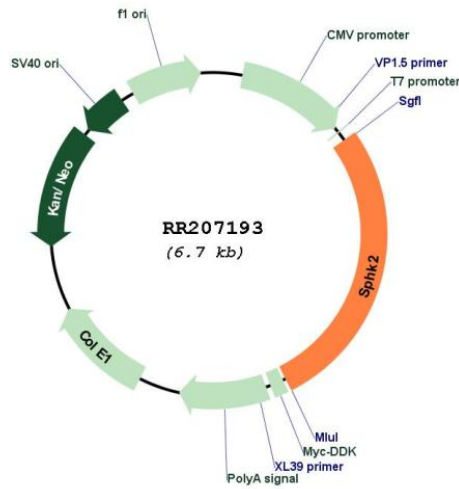
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001012066

ORF Size: 1848 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 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](#)

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_001012066.1](#), [NP_001012066.1](#)

RefSeq Size: 2408 bp

RefSeq ORF: 1851 bp

Locus ID: 308589

Cytogenetics: 1q22

MW: 65.5 kDa