

Product datasheet for **RC234661**

SPHK2 (NM_001204159) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPHK2 (NM_001204159) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SPHK2
Synonyms:	SK-2; SK 2; SPK-2; SPK 2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC234661 representing NM_001204159
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAATGGACACCTTGAAGCAGAGGAGCAGCAGGACCAGAGGCCAGACCAGGAGCTGACCGGGAGCTGGG
GCCACGGGCTTAGGAGCACCTGGTCAGGGCTAAGGCCATGGCCCCGCCCCACCGCCACTGGCTGCCAG
CACCCCGCTCCTCCATGGCGAGTTTGGCTCCTACCAGCCCGAGGCCACGCTTTGCCCTCACCTTACA
TCGCAGGCCCTGCACATACAGCGGCTGCCCCCAAACCTGAAGCCAGGCCCGGGGTGGCTGGTCCCGT
TGGCCGAGGTCTCAGGCTGCTGCACCCTGCGAAGCCGAGCCCTCAGACTCAGCGGCTACTTCTGCAT
CTACACCTACCCTCGGGGCGGCGGGGCCCGGCGCAGAGCCACTCGCACCTTCCGGGCAGATGGGGCC
GCCACCTACGAAGAGAACCGTCCGAGGCCAGCGCTGGGCCACTGCCCTCACCTGTCTGCTCCGAGGAC
TGCCACTGCCCGGGATGGGAGATCACCCCTGACCTGTACCTCGGCCGCCCGGTTGCTTCTATTGGT
CAATCCCTTTGGGGTGGGGCTGGCCTGGCAGTGGTGAAGAACCACGTGCTTCCCATGATCTCTGAA
GCTGGGCTGTCTTCAACCTCATCCAGACAGAACGACAGAACCACGCCCGGGAGCTGGTCCAGGGGCTGA
GCCTGAGTGAGTGGGATGGCATCGTCACGGTCTCGGGAGACGGGCTGCTCCATGAGGTGCTGAACGGCT
CCTAGATCGCCCTGACTGGGAGGAAGCTGTGAAGATGCCTGTGGGCATCCTCCCTGCGGCTCGGGCAAC
GCGCTGGCCGGAGCAGTGAACCAGCACGGGGGATTTGAGCCAGCCCTGGGCTCGACCTGTTGCTCAACT
GCTCACTGTTGCTGTGCCGGGTGGTGGCCACCCTGGACCTGCTCCTGACGCTGGCTCGGGCTC
CCGCTGTTTCTCCTTCTGTCTGTGGCTGGGGCTTGTGTGAGATGGGATATCCAGAGCGAGCGCTTC
AGGGCCTTGGGAGTGGCCGCTTCACTGGGCACGGTGTGGGCTCGCCACACTGCACACCTACCGCG
GACGCTCTCCTACCTCCCCGCACTGTGGAACCTGCCTCGCCACCCCTGCCCATAGCCTGCCTGTGC
CAAGTCGGAGCTGACCCTAACCCAGACCCAGCCCGCCCATGGCCCACTCACCCCTGCATCGTTCTGTG
TCTGACCTGCCTCTTCCCTGCCAGCCTGCCCTGGCTCTCCTGGCTCGCCAGAACCCCTGCCATCC
TGTCCCTCAACGGTGGGGGCCAGAGCTGGCTGGGACTGGGGTGGGGTGGGGATGCTCCGCTGTCCC
GGACCACTGCTGTCTTACCTCCTGGCTCTCCAAGGCAGCTCTACACTACCCGCTCCTCGAAGGGGCC
CCCATAATCCCCATCCTTGGGCTCCCACTTCCACCCTGATGCCCGGTAGGGGCTCCACCTGCG
GCCCGCCGACCACCTGCTGCCTCCGCTGGGCACCCGCTGCCCCAGACTGGGTGACGCTGGAGGGGA
CTTTGTGCTCATGTTGGCCATCTCGCCAGCCACCTAGGCGCTGACCTGGTGGCAGCTCCGATGCGGCG
TTCGACGACGGCCTGGTGCACCTGTGCTGGGTGCGTAGCGGCATCTCGGGGCTGCGCTGCTGCGCCTT
TCTTGGCCATGGAGCGTGGTAGCCACTTACGCTGGGCTGTCCGAGCTGGGCTACGCCGCGCCGCTGC
CTTCCGCTAGAGCCGCTCACACCAGCGGCGTGTACAGTGGACGGGAGCAGGTGGAGTATGGGCCG
CTACAGGCACAGATGCACCCTGGCATCGGTACTGCTACTGGGCTCCTGGCTGCCCGGGGCGGGAGC
CC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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_001204159.3](#)

RefSeq Size: 2868 bp

RefSeq ORF: 1965 bp

Locus ID: 56848

UniProt ID: [Q9NRA0](#)

Cytogenetics: 19q13.33

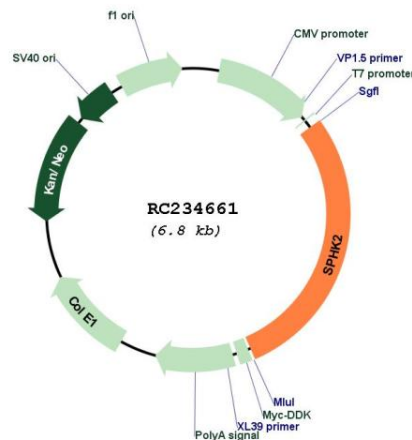
Protein Families: Druggable Genome

Protein Pathways: Calcium signaling pathway, Fc gamma R-mediated phagocytosis, Metabolic pathways, Sphingolipid metabolism, VEGF signaling pathway

MW: 69.2 kDa

Gene Summary: This gene encodes one of two sphingosine kinase isozymes that catalyze the phosphorylation of sphingosine into sphingosine 1-phosphate. Sphingosine 1-phosphate mediates many cellular processes including migration, proliferation and apoptosis, and also plays a role in several types of cancer by promoting angiogenesis and tumorigenesis. The encoded protein may play a role in breast cancer proliferation and chemoresistance. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RC234661