

Product datasheet for **RC234130**

SPHK2 (NM_001243876) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPHK2 (NM_001243876) 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:

>RC234130 representing NM_001243876
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATCTCTGAAGCTGGGCTGTCTTCAACCTCATCCAGACAGAACGACAGAACCACGCCGGGAGCTGG
 TCCAGGGGCTGAGCCTGAGTGAGTGGGATGGCATCGTACCGTCTCGGGAGACGGCTGCTCCATGAGGT
 GCTGAACGGGCTCCTAGATCGCCCTGACTGGGAGGAAGCTGTGAAGATGCCTGTGGGCATCTCCCTCGC
 GGCTCGGGCAACGCGCTGGCCGGAGCAGTGAACCAGCACGGGGATTTGAGCCAGCCTGGGCTCGACC
 TGTGCTCAACTGCTCACTGTTGCTGTGCCGGGTGGTGGCCACCCACTGGACCTGCTCTCCGTGACGCT
 GGCCTCGGGCTCCCGCTGTTTCTCTTCTGTCTGTGGCCTGGGGCTTCGTGTGAGATGTGGATATCCAG
 AGCGAGCGCTTACGGCCTTGGGAGTCCCGCTTCACTGGGACGGTGTGGCCTCGCCACTGC
 ACACCTACCGGACGCCTCTCCTACCTCCCGCCACTGTGGAACCTGCCTCGCCACCCCTGCCATAG
 CCTGCCTCGTCCAAGTCGGAGCTGACCCTAACCCAGACCCAGCCCGCCATGGCCACTCACCCCTG
 CATCGTTCGTGTCTGACTGCCTTCCCTGCCCCAGCTGCCCTGGCCTCTCTGGCTGCCAGAAC
 CCCTGCCATCCTGTCCCTCAACGGTGGGGGCCAGAGCTGGCTGGGACTGGGGTGGGGTGGGGATGC
 TCCGCTGTCCCGGACCCACTGTGTCTTACCTCCTGGCTCTCCAAGGAGCTCTACACTCACCCGTC
 TCCGAAGGGGCCCGTAATCCCCATCCTCTGGGCTCCCACTTCCACCCCTGATGCCGGGTAGGGG
 CCTCCACTGCGGCCCGCCGACCACCTGCTGCCTCCGCTGGGCACCCGCTGCCCCAGACTGGGTGAC
 GCTGGAGGGGACTTTGTGCTCATGTTGGCCATCTCGCCAGCCACTAGGCGTGACCTGGTGGCAGCT
 CCGCATGCGCGCTTCGACGACGGCCTGGTGCACCTGTGCTGGTGCCTAGCGGCATCTCGCGGCTGCGC
 TGCTGCGCCTTTCTTGGCCATGGAGCGTGGTAGCCACTTCAGCCTGGGCTGTCCGACGCTAGCGTACGC
 CGCGGCCGTCCTTCCGCTAGAGCCGCTCACACCAGCGGCGTGTACAGTGGACGGGAGCAGGTG
 GAGTATGGCCGCTACAGGCACAGATGCACCCTGGCATCGGTACTGCTCACTGGGCTCCTGGCTGCC
 CGGGCGGGAGCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234130 representing NM_001243876
 Red=Cloning site Green=Tags(s)

MISEAGLSFNLIQTERQNHARELVQGLSLEWDGIVTVSGDGLLHEVLNGLLDRPDWEEAVKMPVGI
 LPCGSGNALAGAVNQHGGFEPALGLDLLNCSLLLRCGGHPLDLLSVTLASGSRCSFLSVAWGFVSDVDIQ
 SERFRALGSARFTLGTVLGLATLHTYRGRLSYLPATVEPASPTPAHSLPRAKSELTLTPDPAPMAH
 SPLHRSVSDLPPLPQPALASPGSPEPLPILSLNNGGPELAGDWGGADAPLSPDPLSSPPGSPKAA
 LHSPVSEGAPVIPPSSGLPLPTPDARVGASTCGPPDHLLPPLGTPLPPDWVTLGDFVLM
 LAISPSHLGADLVAA PHARFDDGLVHLCWVRSGISRAALLRFLAMERGS
 HFSLGCPQLGYAAARAFRLEPLTPRGVLTVDGEQV EYGPLQAMHPGIGTLLTGPPGCPG
 REP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

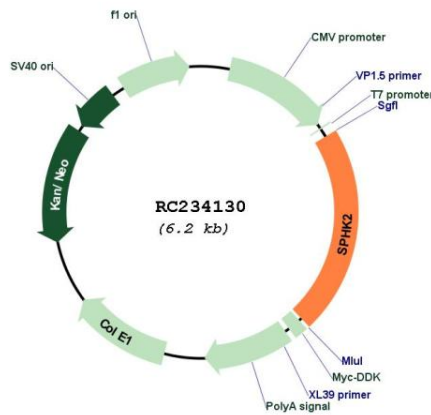
Protein Families: Druggable Genome

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

MW: 47 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 RC234130