

Product datasheet for **SC331511**

SPHK2 (NM_001204160) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: SPHK2 (NM_001204160) Human Untagged Clone
Tag: Tag Free
Symbol: SPHK2
Synonyms: SK-2; SK 2; SPK-2; SPK 2
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC331511 representing NM_001204160.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGCCCCGCCCCACCGCCACTGGCTGCCAGCACCCCGCTCCTCCATGGCGAGTTGGCTCCTACCCA
GCCGAGGCCACGCTTTGCCCTCACCTTACATCGCAGGCCCTGCACATACAGCGGCTGCGCCCAAA
CCTGAAGCCAGGCCCGGGTGGCTGGTCCCCTGGCCGAGGTCTCAGGCTGCTGCACCCTGCGAAGC
CGCAGCCCCTCAGACTCAGCGGCTACTTCTGCATCTACACCTACCCTCGGGGCCGCGGGGGCCCGG
CGCAGAGCCACTGCACCTTCCGGGCAGATGGGGCCGCCACCTACGAAGAGAACCGTGCCGAGGCCAG
CGCTGGGCCACTGCCCTCACCTGTCTGCTCCGAGGACTGCCACTGCCCGGGATGGGAGATCACCCCT
GACCTGTACCTCGGCCGCCCGGTTGCTTCTATTGGTCAATCCCTTTGGGGTCCGGGCCCTGGCCTGG
CAGTGGTGAAGAACCACGTGCTTCCCATGATCTCTGAAGCTGGGCTGTCCTTAACTCATCCAGACA
GAACGACAGAACCACGCCCGGGAGCTGGTCCAGGGGCTGAGCCTGAGTGAGTGGGATGGCATCGTACG
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GGGGGATTTGAGCCAGCCCTGGGCTCGACCTGTTGCTCAACTGCTCACTGTTGCTGTGCCGGGGTGGT
GGCCACCCTGGACCTGCTCCTCGTGACGCTGGCCTCGGGCTCCCGCTGTTTCTCCTTCTGTCTGTG
ACACTGGGCACGGTGTGGGCTCGCCACACTGCACACCTACCGCGGACGCTCTCCTACCTCCCGGCC
ACTGTGGAACCTGCCTCGCCACCCCTGCCATAGCCTGCCTCGTGCAGTCCGAGCTGACCTAACCC
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CCTCCTGGCTCTCCAAGGCAGCTCTACACTCACCCGTCTCCGAAGGGGCCCCGTAATTCCTCCATCC
TCTGGGCTCCACTTCCACCCCTGATGCCGGGTAGGGGCTCCACTGCGGCCGCCCCGACCACCTG
CTGCCTCCGCTGGGCACCCGCTGCCCCAGACTGGGTGACGCTGGAGGGGACTTTGTGCTCATGTTG
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GTGCACCTGTGCTGGGTGCGTAGCGCATCTCGCGGGCTGCGCTGCTGCGCCTTTCTTGCCATGGAG
CGTGGTAGCCACTTACGCTGGGCTGTCCGAGCTGGGCTACGCCGCGGCCCGTGCCTTCCGCTAGAG
CCGCTCACACCAGCGCGGTGCTCACAGTGGACGGGGAGCAGGTGGAGTATGGGCCGCTACAGGCACAG
ATGCACCTGGCATCGGTACTGCTACTGGGCTCCTGGTGCCCGGGGCGGGAGCCCTGA
  
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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001204160
Insert Size:	1857 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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_001204160.2
RefSeq Size:	2684 bp
RefSeq ORF:	1857 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:	65.2 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at a downstream, in-frame start codon, compared to variant 1. The encoded isoform (c) has a shorter N-terminus, compared to isoform a.</p>