

## Product datasheet for SC331509

### SPHK2 (NM\_001204158) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SPHK2 (NM\_001204158) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** SPHK2  
**Synonyms:** SK-2; SK 2; SPK-2; SPK 2  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC331509 representing NM\_001204158.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGAATGGACACCTTGAAGCAGAGGAGCAGCAGGACCAGGCCCTGCACATACAGCGGCTGCGCCCCAAA
CCTGAAGCCAGGCCCGGGGTGGCTGGTCCCCTGGCCGAGGTCTCAGGCTGCTGCACCCTGCGAAGC
CGCAGCCCCTCAGACTCAGCGGCCTACTTCTGCATCTACACCTACCCTCGGGGCCGCGCGGGGCCCGG
CGCAGAGCCACTCGCACCTCCGGGCAGATGGGGCCGCCACCTACGAAGAGAACCCTGCCGAGGCCAG
CGCTGGGCCACTGCCCTCACCTGTCTGCTCCGAGGACTGCCACTGCCCGGGATGGGAGATCACCCCT
GACCTGCTACCTCGGCCGCCCGTTGCTTCTATTGGTCAATCCCTTTGGGGTGGGGCCTGGCCTGG
CAGTGGTGAAGAACCAGGTGCTCCCATGATCTCTGAAGCTGGGCTGCTCTTAACCTCATCCAGACA
GAACGACAGAACCACGCCCGGGAGCTGGTCCAGGGGCTGAGCCTGAGTGAGTGGGATGGCATCGTCACG
GTCTCGGGAGACGGGCTGCTCCATGAGGTGCTGAACGGGCTCCTAGATCGCCCTGACTGGGAGGAAGCT
GTGAAGATGCCTGTGGGCATCCTCCCCTGCGGCTCGGGCAACGCGCTGGCCGGAGCAGTGAACCAGCAC
GGGGGATTTGAGCCAGCCCTGGGCTCGACCTGTTGCTCAACTGCTCACTGTTGCTGTGCCGGGGTGGT
GGCCACCCACTGGACCTGCTCCTCGTGACGCTGGCCTCGGGCTCCCGCTGTTTCTCCTTCTGTCTGTG
GCCTGGGGCTTCGTGTGATGTGGATATCCAGAGCGAGCGCTTCAGGGCCTTGGGAGTGGCCCGCTTC
ACACTGGGCACGGTGTGGGCTCGCCACACTGCACACCTACCGGGAGCGCTCTCCTACCTCCCCGCC
ACTGTGGAACCTGCCTCGCCACCCTGCCATAGCCTGCCTCGTCCAAGTCGGAGCTGACCCTAACCC
CCAGACCCAGCCCCGCCATGGCCCACTACCCCTGCATCGTTCTGTGTCTGACCTGCCTCTTCCCCTG
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CCTCCTGGCTCTCCAAGGCAGCTCTACACTCACCCGCTCCGAAGGGGCCCCGTAATTCCCCCATCC
TCTGGGCTCCACTTCCCACCCCTGATGCCGGGTAGGGGCTCCACTGCGGCCCGCCGACCACCTG
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GTGCACCTGTGCTGGGTGCGTAGCGGCATCTCGCGGGCTGCGCTGCTGCGCCTTTTCTTGCCATGGAG
CGTGGTAGCCACTTCAGCCTGGGCTGTCCGCAGCTGGGCTACGCCCGGCCCGTGCCTTCCGCCTAGAG
CCGCTCACACCACGCGCGTGTCTCACAGTGACGGGGAGCAGGTGGAGTATGGGCCGCTACAGGCACAG
ATGCACCTGGCATCGGTACTGCTCACTGGGCTCCTGGTGCCCGGGGCGGGAGCCCTGA
  
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**Restriction Sites:** SgfI-MluI



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<b>ACCN:</b>	NM_001204158
<b>Insert Size:</b>	1788 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001204158.2</a></u>
<b>RefSeq Size:</b>	2787 bp
<b>RefSeq ORF:</b>	1788 bp
<b>Locus ID:</b>	56848
<b>UniProt ID:</b>	<u><a href="#">Q9NRA0</a></u>
<b>Cytogenetics:</b>	19q13.33
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Calcium signaling pathway, Fc gamma R-mediated phagocytosis, Metabolic pathways, Sphingolipid metabolism, VEGF signaling pathway
<b>MW:</b>	63 kDa
<b>Gene Summary:</b>	<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 (2) uses an alternate in-frame splice site in the coding region, compared to variant 1. The encoded isoform (b) is shorter than isoform a.</p>