

Product datasheet for **MC200266**

Sphk2 (BC006941) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sphk2 (BC006941) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sphk2
Synonyms:	C76851
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC006941
 TTTCAACACTTGGCTGGCTCTGCCATTTAAAGTTGTGATCTTGGAGGCTGGTCCAGGAGCTGACCACAA
 GCCAAGAGCCTAGGAGTCTTGGGACTGAACAGGGTCAATGGCCCCACCACCTACTGCCAGTGGCTGC
 CAGCACTCCAATCCTGCACGGCAGTGGTTTGGTTCCTACCCGGCCAAACGGCCACGGTTTGCCTCACCTC
 ACAACACAAGCCCTACACATACAGCGACTACGCCAAAGCCAGAAGCCCGGCCCGAGATGGTCTAGTCT
 CTCTGGATGAGGTCTCGGGCTGTGGCACCTGCAGAGCCGTAGCCCCGAGGACACTGCAGCCTACTTCTG
 CATCTACACCTACCCACGTGGCCGTGAGGGGGCCGGCGCAGAGCTACCGGGACCTTCCGGGCGGATGGG
 GCCACCATTATGAGGAGAATCGTGCAGAGGCCAGCGCTGGGCCACTGCCCTCAGTGTCTCTCCGAG
 GAGTGCCTCTGTAGGGGACCAGGAAATCACCCCTGAATTGCTGCCCGAAGCCAGGCTGCTCATATT
 GGTCAATCCCTTTGGGGGGCGGGCCTGGCTGGCAGCGCTGTATGGACCACGTGGTGCATGATCTCT
 GAAGCTGGGCTGTCTTCAACCTCATAACAGACAGAACGACAGAACCATGCCCGTGAAGTGGTGCAGGGT
 TAAGCCTGAGTGGTGGGAAAGGCATTGTACTGTGTCTGGAGACGGGCTGCTTACGAGGTGCTGAATGG
 GCTCCTTGATCGCCAGACTGGGAGGATGCCGTGCGGATGCCATTGGTGTCTCCCTGTGGATCGGGC
 AATGCGCTAGCTGGGCGGTGAACCATCATGGCGGGTTTGGAGGTTGTGGTGTGACCTGTTGCTCA
 ACTGCTCGCTTCTCTGCCGTGGTGGCAGCCATCCTCTGGACCTGCTCTGTGACGCTAGCCTCGGG
 ATCCCCTGTTTTCTCTCTGTAGTGCCTGGGGATTCTTGTAGATGTGGACATTACAGTGAAGCGC
 TTCAGGGCCCTGGGCAGCGCTCGATTACACTGGGTGCAGTGTAGGCCTGGCCTCGTTGCATACCTACC
 GTGGACGCCTCTCCTACCTCCCCGCTACCACAGAACAGCCTTGGCCATCCCAGGCCACAGTCTGCCTCG
 AGCCAAGTCAGAACTAGTCTTGGCTCCAGCCCCAGCCCCGCGCCACCCACTCGCTCTACATCGATCT
 GTGTCTGACCTGCCCTGCCCTTCCCCAGCCTGCCTTGGTCTCCCTGGCTCCCTGAGCCCCTGCCTG
 ACCTGTCCCTCAATGGTGGTGGTCCAGAGCTGACTGGAGACTGGGAGGAGCTGGGGATGCACCTGTGC
 CCCAGACCACCTGCTGCCTTATCCCCAACGCTCTCAAAACAGCTCAGCTTTCACCCATCGTGAAGGG
 CCCCCAGAAATGCCAGCATCTTCGGGGTTCCTGCCCTCCCACCCAGTGGCCAGAACCTTACCTGGG
 GCCCAGTGGACCACCTCCTCCCTCCCTGGGCTCTCCACTGCCCAAGACTGGGTGACAATAGAGGGGGA
 GTTTGACTCATGTTGGGCATCTTGCCAGCCACCTCTGCGCAGACCTGATGGCAGCCCCACATGCACGC
 TTTGATGATGGCCTTGTGCACCTGTGTTGGGTGCGGAGCGGCATCTCACGGGCTGCACTTCTACGCATT
 TGCTGGCCATGGAGCATGGAAACCACTTCAAGCCTGGGCTGCCCCATCTGGGCTATGCTGCAGCAGTGC
 CTTCCGCCTTGAACCACTCACGCCTCGTGGCCTGCTCACTGTAGATGGGGAGTTAGTGGAGTATGGGCCA
 ATACAGGCGCAGGTGCACCCAGGTCTCGCCACGCTGCTCACTGGGCTGCAGGTCAAAGCCACAAGCCT
 GAACGAGCCTAAAAGCATGGCGAGTTGGTGAACAGCGCCCCATAGGCTAAGATCTATCATTTACAGGT
 AGAAGTGGGGCCGCACTCAGAAGTGTGAGGAGGTGGAGAGTGGTCTGACCCTCAGTTCAGAGGAC
 CTAGAGGCTCGAGGGTGGGGCCTGCCTTTCTTGTATGTCCAATGATGGGGCCTGGAATGTATGAGCTAGCA
 AGGCTTCTCAGCTTATTGACCAGCCAGGGTTTCTTCTGCTACTCCGGTGCCTCTACTTGACTGGCCA
 ATCAGCCCTTGGGGGACAGGTTCCCCAGGTGGTCCCCAGATTTGCACTAATGTTCTCCCTGGCCAGT
 TAGGGATGGGATGTTCTGTGTCTGTGTGTCCCTCTCCCTAGTCTAAAAAGCAATTGAAAAGGTCTATGC
 AATAAAGGTTGTTGCTTCCCAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: BC006941

Insert Size: 1854 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:

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: [BC006941](#), [AAH06941](#)

RefSeq Size: 2416 bp

RefSeq ORF: 1854 bp

Locus ID: 56632

Cytogenetics: 7 B3

Gene Summary: This gene encodes a kinase that phosphorylates sphingosine into sphingosine-1-phosphate, which is involved in cell differentiation, motility, and apoptosis. The encoded protein plays a role in maintaining cellular levels of sphingosine-1-phosphate. The gene product also enhances apoptosis in different cell types and suppresses cellular proliferation. In mast cells, the encoded protein is necessary for influx of calcium, protein kinase C activation, and cytokine production and degranulation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2010]