

Product datasheet for **MC218741**

Sphk2 (NM_001172561) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sphk2 (NM_001172561) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sphk2
Synonyms:	C76851; Sk2; Spk2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC218741 representing NM_001172561
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCCACCACACTACTGCCAGTGGCTGCCAGCACTCCAATCCTGCACGGCGAGTTGGTTCCTACC
 CGGCCAACGGCCACGGTTTGCCTCACCTCACAAACACAAGCCCTACACATACAGCGACTACGCCAAA
 GCCAGAAGCCCGGCCCGAGATGGTCTAGTCTCTGGATGAGGTCTCGGGCTGTGGCACCTGCAGAGC
 CGTAGCCCGAGGACACTGCAGCCTACTTCTGCATCTACACCTACCCACGTGGCCGTCGAGGGGGCCGGC
 GCAGAGCTACGCGGACCTCCGGGCGGATGGGGCCACCACTTATGAGGAGAATCGTCAGAGGCCACGC
 CTGGGCCACTGCCCTCACGTGTCTCTCCGAGGAGTGCCTCTGTCAGGGGACCAGAAATCACCCCTGAA
 TTGCTGCCCGGAAGCCAGGCTGCTCATATTGGTCAATCCCTTGGGGGGCGGGCCTGGCCTGGCAGC
 GCTGTATGGACCAGTGGTGCCAAATGATCTCTGAAGCTGGGCTGTCTTCAACCTCATACAGACAGAACG
 ACAGAACCATGCCCGTGAGCTGGTGACGGGTTAAGCCTGAGTGAGTGGGAAGGCATTGCTACTGTGTCT
 GGAGACGGGCTGCTTTACGAGGTGCTGAATGGGCTCCTTGATCGCCAGACTGGGAGGATGCCGTGCCGA
 TGCCCATTTGGTGTCTCCCTGTGGATCGGGCAATGCGCTAGCTGGGGCGGTGAACCATCATGGCGGGT
 TGAGCAGGTTGTGGTGTGACCTGTTGCTCAACTGCTCGCTTCTCTGCCGTGGTGGACCCATCCT
 CTGGACCTGCTCTGTGACGCTAGCCTCGGGATCCCCTGTTTTTCTTCTGTGAGTGGCCTGGGGAT
 TCTTGTGAGATGTGGACATTACAGTGAGCGCTTACAGGGCCCTGGGCAGCGCTCGATTACACTGGGTGC
 AGTGCTAGGCCTGGCCTCGTTCATACCTACCGTGGACGCCTCTCCTACCTCCCGCTACCACAGAACCA
 GCCTTGCCCATCCAGGCCACAGTCTGCCTCGAGCCAAGTCAGAACTAGTCTTGGCTCCAGCCCCAGCCC
 CCGCCGCCACCCACTCGCTCTACATCGATCTGTGTCTGACCTGCCCTGCCCTTCCCCAGCCTGCCTT
 GGTCTCCCTGGTCCCTGAGCCCTGCCTGACCTGTCCCTCAATGGTGGTGGTCCAGAGCTGACTGGA
 GACTGGGGAGGAGCTGGGGATGCACCTCTGTCCCCAGACCCACTGCTGCCTTATCCCCAACGCTCTCA
 AAACAGCTCAGCTTTCACCCATCGCTGAAGGGCCCCAGAAATGCCAGCATCTTCGGGGTTCCTGCCTCC
 CACCCACAGTGCCCCAGAAGCCTCTACCTGGGGCCAGTGGACCACCTCTCCCTCCCTGGGCTCTCCA
 CTGCCCAAGACTGGGTGACAATAGAGGGGGAGTTTGTACTCATGTTGGGCATCTTGCCGAGCCACCTCT
 GCGCAGACCTGATGGCAGCCCCACATGCACGCTTTGATGATGGCGTTGTGCACCTGTGTTGGGTGCGGAG
 CGGCATCTCACGGGCTGCACTTCTACGCATTTTGTGGCCATGGAGCATGAAACCACCTTACGCCTGGGC
 TGCCCCATCTGGGCTATGCTGCAGCACGTGCCTTCCGCCTTGAACCACTCACGCCTCGTGGCCTGTCTA
 CTGTAGATGGGGAGTTAGTGGAGTATGGGCCAATACAGGGCGAGGTGCACCCAGGCTCGCCACGCTGCT
 CACTGGGCTGCAGGTCAAAGCCACAAGCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001172561
- 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: [NM_001172561.1](#), [NP_001166032.1](#)

RefSeq Size: 3481 bp

RefSeq ORF: 1854 bp

Locus ID: 56632

UniProt ID: [Q9JIA7](#)

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]

Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.