

Product datasheet for **MC204704**

Sphk2 (NM_020011) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sphk2 (NM_020011) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sphk2
Synonyms:	C76851; Sk2; Spk2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >BC053737
 CCAGAACCAAAGAGAAGTCAGCCTGAGGAAAGGGCTGGGACCCGGAGCCTCTCTGGCCTTTCCCCGTCCC
 TGCTCTAACACTCTCCAGGGGTAAGGGGACCGGAGAATCAGAGACATGATCGGAGCTTGCTGGACGAGTC
 GCGTGGTGACTCTCTGGCCGCACGCCGACCGCTTCTCGGTGGCTCGCGGAGGACCCGGTGGGCTGTGTGT
 CGGAGCCTCCGAAGTAGCTGGGATCACCCTTTCAACTTTGGCCTGGCTCTGCCATTTAAAGTTGTGA
 TCTTGGAGGCTGGTCCAGGAGCTGACCACAAGCCAAGAGCCTAGGAGTGCTTGGGACTGAACCAAGGTCA
 TGGCCCCACCACCACTACTGCCAGTGGCTGCCAGCACTCCAATCCTGCACGGCGAGTTTGGTTCCCTACCC
 GGCCAACGGCCACGGTTTGGCCCTACCCCTCACAAACACAAGCCCTACACATACAGCGACTACGCCCAAAG
 CCAGAAGCCCGGCCCGAGATGGTCTAGTCTCTCTGGATGAGGTCTCGGGCTGTGGCACCCTGCAGAGCC
 GTAGCCCCGAGGACACTGCAGCCTACTTCTGCATCTACACCTACCCACGTGGCCGTGAGGGGGCCGGCG
 CAGAGCTACGCGGACCTTCCGGGCGGATGGGGCCACCCTTATGAGGAGAATCGTGCAGAGGCCACGCGC
 TGGGCCACTGCCCTCACGTGTCTCTCCGAGGAGTGCCTCTGTCAGGGGACCAGGAAATCACCCCTGAAT
 TGCTGCCCCGGAAGCCAGGCTGCTCATATTGGTCAATCCCTTTGGGGGGCGGGCTGGCCTGGCAGCG
 CTGTATGGACCAGTGGTCCAATGATCTCTGAAGCTGGGCTGTCCTTCAACCTCATAACAGACAGAACGA
 CAGAACCATGCCCGTAGCTGGTGCAGGGGTTAAGCCTGAGTGAAGTGGGAAGGCATTGTCACTGTGTCTG
 GAGACGGGCTGCTTACGAGGTGCTGAATGGGCTCCTTGATCGGCCAGACTGGGAGGATGCCGTGCGGAT
 GCCCATGGTGTCTCCCTGTGGATCGGGCAATGCGCTAGCTGGGGCGGTGAACCATCATGGCGGGTTT
 GAGCAGGTTGTCGGTGTGACCTGTGCTCAACTGCTCGCTTCTCTCTGCCGTGGTGGCAGCCATCCTC
 TGGACCTGCTCTGTGACGCTAGCCTCGGGATCCCGCTGTTTTCTTCTGTCACTGGCCTGGGGATT
 CTTGTGAGATGTGGACATTCACAGTGAAGCCTTACAGGGCCCTGGGCGAGCCTCGATTACACTGGGTGCA
 GTGCTAGGCTGGCCTCGTTGCATACCTACCGTGGACGCTCTCCTACCTCCCCGCTACCACAGAACCAG
 CCTTGGCCATCCAGGCCACAGTCTGCCTCGAGCCAAGTCAGAAGTGTGGTCCAGCCCCAGCCCC
 CGCCGCCACCCACTCGCCTCTACATCGATCTGTGTCTGACCTGCCTCTGCCCTTCCCCAGCCTGCCTTG
 GTCTCCCCTGGCTCCCCTGAGCCCTGCCTGACCTGTCCCTCAATGGTGGTGGTCCAGAGCTGACTGGAG
 ACTGGGGAGGAGCTGGGGATGCACCTCTGTCCCCAGACCACTGTGCCTTCATCCCCAACGCTCTCAA
 AACAGCTCAGCTTTCACCCATCGCTGAAGGGCCCCCAGAAATGCCAGCATCTTCGGGGTTCTGCCTCCC
 ACCCACAGTGCCCCAGAAGCCTTACCTGGGGCCAGTGGACCACCTCCTCCCTCCCCTGGGCTCTCCAC
 TGCCCCAAGACTGGGTGACAATAGAGGGGGAGTTTGTACTCATGTTGGGCATCTTGCCGAGCCACCTCTG
 CGCAGACCTGATGGCAGCCCCACATGCACGCTTGTATGATGGCGTTGTGCACCTGTGTTGGGTGCGGAGC
 GGCATCTCACGGGCTGCCTTCTACGCATTTTGTGGCCATGGAGCATGGAACCACTTCAGCCTGGGCT
 GCCCCATCTGGGCTATGCTGCAGCACGTGCCTTCCGCCTGAACCACTCAGCCTCGTGGCCTGCTCAC
 TGTAGATGGGGAGTTAGTGGAGTATGGGCAATACAGGGCCAGGTGCACCCAGGTCTCGCCACGCTGCTC
 ACTGGGCCTGCAGGTCAAAGCCGCAAGCCTGAACGAGCCTAAAAGCATGGCGAGTTGGTGAACCAAGCG
 CCCCATAGGCTAAGATCTATCATTTACAGGTAGAAGTGGGGCCCCGACTCAGAAGTGTGAGGAGGGTGGGA
 GAGTGGTCTGACCTCAGTTCAGAGGACCTAGAGGCTCGAGGGTGGGGCCTGCCTTTCTTGATGTCC
 AATGATGGGGCCTGGAATGTATGAGCTAGCAAGGCTTCTTCACTATTGACCAGCCAGGGTTTCTTCTT
 GCCTACTCCGGTGCCTTACTTGACTGGCCAATCAGCCCTTGGGGGAGGTTCCCCAGGTGGTCCCCA
 GATTTGCACTAATGTTCTCCCCTGGCCAGTTAGGGATGGGATGTTCTGTGTCTTGTGTCCCTCTCCC
 TAGTCTAAAAAGCAATTGAAAAGGTCTATGCAATAAAGGTTGTTGCTTCCCTCTAGGCCTCACCCCTTC
 CACCCGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_020011
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:	<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:	<u>BC053737</u> , <u>AAH53737</u>
RefSeq Size:	2691 bp
RefSeq ORF:	1854 bp
Locus ID:	56632
UniProt ID:	<u>Q9JIA7</u>
Cytogenetics:	7 B3
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>