

Product datasheet for **MC209436**

Sphk1 (NM_001172472) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sphk1 (NM_001172472) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sphk1
Synonyms:	1110006G24Rik; SK; Sk1; Spk1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC209436 representing NM_001172472 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACCACTAGAAATGCCCTCGAGGACTGCTCCACGGCCATGCAGAGTCTGGTCTGCTGAACCCC
AGGGTGGCAAGGGCAAGGCTCTGCAGCTTCCAGAGCCGTGTGCAGCCCTTCTGGAGGAGGCAGAGAT
AACCTTTAACTGATACTCACCGAACGGAAGAACCATGCCAGGGAGCTGGTGTGCAGAGGAGTTGGGT
CACTGGGACGCCCTGGCAGTCATGTCGGTGATGGTCTGATGCATGAGGTGGTGAATGGGCTAATGGAAC
GGCCAGACTGGGAGACTGCCATCCAGAAACCCCTGTGTAGCCTCCCTGGAGGCTCCGGCAATGCGCTGGC
AGCTTCTGTGAACCACTATGCTGGGTACGAGCAGGTGACTAATGAAGACCTGCTCATCAACTGCACACTG
CTGTTGTGCCCGCGCGCCTGTACCCATGAACCTGCTGTCCCTGCACACTGCTTCTGGGCTGCGGCTCT
ATTCTGTGCTCAGTCTGTCTGGGGCTTTGTTGCTGACGTGGACCTCGAGAGTGAGAAGTACAGGCGCTT
GGGGGAGATTCGTTTACAGTGGGCACCTTCTTTCGCCTAGCAAGCCTGCGCATCTACCAAGGCCAACTG
GCCTACCTTCTGTAGGAACTGTGGCCTAAGAGACCCGCTCTACACTGGTGCAGAAGGGCCCCGTCG
ACACACACCTTGTTCCTCGGAGGAGCCAGTGCCTTCTCATTGGACTGTGGTACCAGAACAGGACTTCGT
CCTGGTGTGGTCTGTACACACCCACCTGAGCTCCGAGCTGTTGCAGCACCCATGGGCCGCTGTGAG
GCTGGTGTATGCATCTGTTCTACGTACGTGCGGGGGTGTCAAGGGCTGCGCTGCGCCTCTTCTCTGG
CCATGCAGAAGGGCAAGCATATGGAACCTTGACTGTCCATACCTGGTTTCATGTGCCCGTGGTTGCTTCCG
CCTGGAGCCCAGGAGCCAGAGGGCGTGTCTTCTGTGGATGGAGAGCTGATGGTATGTGAAGCTGTGCAG
GGCCAAGTGCACCCAACTACCTTTGGATGGTCTGTGGCAGCAGAGATGCCCCATCCGGCCGGGACTCCC
GGCGGGGCCACCTCCAGAAGAACC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001172472
Insert Size:	1149 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>NM_001172472.1</u> , <u>NP_001165943.1</u>
RefSeq Size:	1880 bp
RefSeq ORF:	1149 bp
Locus ID:	20698
UniProt ID:	<u>Q8CI15</u>
Cytogenetics:	11 E2
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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2010]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1. Variants 2, 3 and 4 encode the same protein (isoform 2). This isoform is also known as Sphk1a2. 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.</p>