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Product datasheet for RN209901

Sphk1 (NM_133386) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sphk1 (NM_133386) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Sphk1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN209901 representing NM_133386 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCAACCAGCAGACTGTCCCCGGGGACTGCTCCCACGGCCATGCAGAGTGTTGGTGCTGCTGAACCCCC GGGGTGGCAAGGGCAAGGCTCTGAAGCTCTTTCAGAGCCGTGTGCGGCCCCTTCTGGAGGAGGCTGAGGT ATCCTTTAAACTGATGCTCACCGAACGGCAGAACCATGCCAGGGAGCTGGTGTGTGCAGAAGAACTGGGT CACTGGGATGCCTTGGCGGTCATGTCCGGTGACGGTCTGATGCACGAGGTGGTGAATGGGCTAATGGAAC GACCTGACTGGGAGAGTGCCATCCAGAAACCCCTATGTAGCCTCCCTGGAGGCTCTGGCAATGCGCTGGC AGCTTCTTTGAACTACTATGCTGGGCACGAGCAGGTCACTAATGAAGATCTCCTGATCAACTGCACACTG CTGTTATGCTGCCGGCAGCTGTCACCCATGAATCTGCTGTCCCTGCACACCGCTTCCGGACGGCAACTCT ATTCTGTTCTCAGTCTGTCCTGGGGTTTCGTTGCTGACGTGGACTTGGAGAGTGAGAAATACAGGAGCTT GGGGGAGATTCGTTTCACGGTGGGAACCTTTTTTCGCCTAGCAAGCCTGCGCATTTACCAAGGCCAACTG GCCTACCTTCCTGTAGGGAAGGCTGCCTCTAAGATACCTGCTTCCTCACTGGCACAGAAGGGCCCTGCCA ACACATACCTCGTTCCTCTGGAGGAGCCAGTGCCACCTCATTGGACTGTGGTGCCAGAGCAGGACTTCGT TCTGGTGCTGGTGCTGCTTCACACCCACCTGAGCACAGAGATGTTTGCAGCACCCATGGGCCGCTGCGAG GCTGGTGTTATGCATCTGTTCTATATACGTGCGGGGGTGTCAAGGGCCATGCTGCTGCGCCTCTTCCTGG CCATGCAGAAGGGCAAGCATATGGACCTCGACTGCCCGTACTTGGTTCATGTGCCAGTGGTTGCCTTCCG CCTGGAACCCAGGAACCAGAGGGGAGTGTTTTCTGTGGACGGGGAGCTGATGGTGTGTGAAGCTGTGCAG GGCCAAGTGCACCCAAACTACCTTTGGATGGTCTCTGGTAGCAGTGACTCCCCGTCCGGCCGGGACTCCC AGCGGAGGCCACCTCCAGAAGAACCAATATGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI

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ACCN:	NM_133386
Insert Size:	1152 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
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_133386.3, NP_596877.2
RefSeq Size:	3169 bp
RefSeq ORF:	1152 bp
Locus ID:	170897
UniProt ID:	Q91V26
Cytogenetics:	10q32.1-q32.2
Gene Summary:	catalyzes the conversion of sphingosine to sphingosine 1 phosphate, which plays a role in cell proliferation and differentiation [RGD, Feb 2006] Transcript Variant: This variant (6) retains an intron compared to variant 1. The resulting isoform (b) is shorter at the N-terminus compared to isoform a. Variants 2, 3, 4, 5, and 6 all encode the same isoform (b). 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.