

## Product datasheet for RC210305

### SIPA1 (NM\_006747) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SIPA1 (NM_006747) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SIPA1
Synonyms:	SPA1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC210305 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCATGTGGGCCGGGTGTGGGAGCCCTCGGCGGGCATGGCCCTGCGTCCACAGATGACCTCT  
TTGCCCGAAGCTGCGCCAGCCAGCAAGCCCCGCTGACACCGCACACCTTCGAGCCGAGGCCAGTCCG  
GGGCCACTCCTGCGCAGCGGCAGCGATGCAGGCGAGGCCAGGCCCCACGCCAGCCCGCTGCC  
CGTGCCACAGCCACGAAGAGGCCAGCCGACTGCAGCCACTTCCACCCGCTTCACTGACCCGCTGG  
CACTGCTGGGGTGCAGCAGAGGAACAGAGCCTGCCTTCCACAGTGTGAGCCTCGATGGTTTGC  
CCACTATGACGTGCAAAGCCTGCTTTTATTGGGCTCCGAGGTCTCAGGGGATGGGAGCCACTCAGAG  
GCCAGCTCTGGGACCCTGGCTTACGCCGAGGACCAGGCTGCCAGCTCGGACCTGCTGCATGGGGCACCTG  
GCTTTGTGTGTGAGCTCGGGGTGAGGGTAGCTAGGCTGGGTGGACCAGCATCCCCACCTGTGCCCC  
TGCACTGCCAACCGGGCCGTGCCATCCTGGAGGAGCCACAGAACCGAACCTCGGCCTACAGCCTGGAG  
CACGCAGACCTGGGTGCTGGCTACTACCGAAATACTTCTATGGCAAAGAATCAGAATCTCTCGGGA  
TGGAGAGTCGCTGGGCCGGTGGCAGTGAGCCTGCGGCGGAGGAGAAGGAGGGCAGCGGAGGGGCAC  
CCTGCACAGTACCGCGTCATCGTGCGGACCACGAGCTCCGGACTCCGTCGACCATCTCGGAGGAC  
GCGCTGCCCGGGGCCCCACGGGTCTGTCCCAAGGAAACTTCTGGAGCACGTGGCGCCGAGCTGA  
GCCCCAGCTGCTTGCCTGGGCTCAGCTTACCCAAGGTACCACGGACGCTGCTCACACTGGATGAGCA  
AGTGCTGAGCTTCCAACGCAAGGTGGGCATCCTGTACTGCCGGCGGGCCAGGGCTCGGAGGAGGATG  
TACAACAACCAGGAGGCGGGACCGCCTCATGCAAGTTTCTCACCTTGTGGCGATGTGGTGGGCTCA  
AAGGCTTTGAGAGTTACCGGGCCAGCTAGACACCAAAACGGATTCCACAGGCACGCACTCCCTACAC  
CACATACCAGGACCAGAGATCATGTTCCAGTGTCCACGATGCTGCCTTACACCCCTAATAACCAGCAG  
CAGCTCCTCCGGAAGCGCCACATTGGCAACGACATTGTGACCATCGTGTCCAGGAGCCTGGCAGCAAGC  
CCTTCTGCCCCACACCATCCGCTCGCACTTCCAGCAGTGTTCCTAGTGGTGGCGGCACACACCCCTG  
CACGCCACACACCACCTACAGGGTGGCCGTGAGCCGACCCAGGACACCCCTGCCTTCCGGCCAGCTCTG  
CCTGCTGGCGGAGGCCCTTCGACAGCAACGCCGACTCCGGCCTTCTGCTGGCCAAAGCGCTGAATG



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GTGAGCAGGCGGCCGGCCACGCGCGCCAGTTCCACGCCATGGCCACGCGCACCCGCCAGCAGTACCTGCA  
 AGACCTGGCCACCAACGAGGTGACCACTACGTCGCTGGACTCGGCTTACGCTTCGGCTGCCCTCCCTG  
 GGTGGGAGGCGCCGGGGCCCTCGGGGCCAGGCGCCGAGCTGCAGGCAGCGGGCTACTGGTGTGGG  
 GAGTGCAGCGCGCCGGGGCGCGGGTTCGCGCCGGGGCTCAGGCGAGCGGCCCGAAGGCATCGAGGT  
 GCCCTGCCTGCTGGGCATCTCGGCCGAGGCTCTGGTGTGGTGGCGCCGCGACGGCCGCGTAGTGTTC  
 AATTGCGCCTGTCGCGACGTGCTGGCCTGGACCTTCTCCGAGCAGCAGCTGGACCTGTACCACGGCCGCG  
 GGGAGGCGATCACGCTGCCTTCGACGGTCCCCGGCCAGCCGTGGGCGAGGTGGTGGCGCCCTGCA  
 GCTGGTGAAGCCGTGGCTGCGAGACCCGCGAGCTGGCGCTGCCCGCGACGGTCAAGGCCGCTGGGCTTC  
 GAGGTGGACGCCGAGGATTCTGCACGCACGTGGAGCGCTTACATTGCGCGAGACGCGGGGCTGCGGC  
 CCGGGGCGCGCTCCTGCGCGTGTGCGGCCAGACGCTGCCAGCCTCCGCGCCGAGGCGCGTGCCAGCT  
 CCTGCGCTCGGCGCCAAAGGTCTGCGTACCCTGCTGCCCGGACGAGAGCGGCGCCCGCCGAGGAGT  
 TTTTCGGAGCTGTACACGCTGTCGCTGCAGGAGCCTAGCCGGCGGGGGCCAGATCCTGTGCAGGATG  
 AGGTCCAGGGGTGACCCTGCTGCCACCACAAAGCAGCTGCTGCACCTGTGCTGCAAGATGGTGGCAG  
 TCCTCCAGGGCTGGGGATCGGCCGAGGAGGACTGAGTTCCTGCACAGCCAGAAGCTCGTGTACCA  
 CGCAGCTCTGTGCGATGAGGCCCGAGTCTGCCAACACCACCCGGACTCCTCCTGCCACCACAG  
 CCAAGCCATCAGTACCCAGTGTGACAGTGAGACACCCCTGACCCAGGACAGGCCAGGCAGTCCCAGTGG  
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 AACTCCATCAGCAGGATCATGTGCGGAGGCGGGCAGTGGGACCCTGGAGGACGAGTGGCAGGCCATCTCGG  
 AGATTGCCTCTACTTGAACACCATTCTGGAGTCGCTGTCCCAGAGGGACAGCCATCCAGAGAGTGG  
 AGACCCTAAGGGAACCCAAAATCTGATGCTGAGCCAGAGCCTGGGAACCTCTCAGAGAAGGTCTCTAC  
 TTGGAGTCCATGCTCAGGAAGCTGCAGGAGGACCTGCAGAAGGAGAAGGCGGACAGGGCGGCCCTGGAGG  
 AGGAGGTGCGGAGCCTGAGACACAACAACCGCGGCTGCAGGCGGAGTCTGAGAGTGCAGCCACACGCT  
 CCTCCTGGCTCCAAGCAGCTGGGCTCACCCACCGCCGACTGGCC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTAA

**Protein Sequence:**

>RC210305 protein sequence  
 Red=Cloning site Green=Tags(s)

MPMWAGVGSPRRGMAPSTDDLARKLRQPARPPLTPHTFEPRPVRGPLLRSRSDAGEARPPTPASPRA  
 RAHSHEEASRPAATSTRLFTDPLALLGLPAEEPEPAFPVLEPRWFAHYDVQSLFDWAPRSQGMGSHSE  
 ASSGTLASAEDQAASSDLLHGAPGFVCELGEGELGLGGPASPPVPPALPNAAVSILEEPQNRTSAYSLE  
 HADLGAGYYRKYFYGKEHQNFQMGDES LGPVAVSLRREEKEGSGGTLHSYRVIVRTTQLRRLRGTISED  
 ALPPGPPRGLSPRKLLEHVAPQLSPSCLRLGSASPKVPRTLLTLDEQVLSFQRKVGILYCRAGQGSEEM  
 YNNQEAAGPAMQFLTLLGDVVRLKGFESYRAQLDTKDSTGTHSLYTTYQDHEIMFHVSTMLPYTPNNQQ  
 QLLRKRHIGNDIVTIVFQEPGSKPFCPTTIRSHFQHVFLVVRATPCTPHTTYRVAVSRTQDTPAFGPAL  
 PAGGGPFAANADFRAFLAKALNGEQAAGHARQFHAMATRTRQQYLQDLATNEVTTTSLDSASRFLPSL  
 GRRRAAPRGPAGELQAAGSLVWGVRAAPGARVAAGAQAASGPEGIEVPCLLGISAEALVLAAPRDRVVF  
 NCACRDVLAWTFSEQQLDLYHGRGEAITLRFDGSPPQAVGEVVARLQLVSRGCETRELALPRDGQGRG  
 EVDAEGFVTHVERFTFAETAGLRPGARLLRVCGQTLPSLRPEAAAQLRSAPKVCVTVLPPDESGRPRRS  
 FSELYTSLQEPSRRGAPDPVQDEVQGVTLPTTKQLLHCLQDGGSPGPGDLAEERTEFLHSQNSLSP  
 RSSLSDEAPVLPNTTLDLLATTAKPSVPSADSETPLTQDRPGSPSGSEDKGNPAPELRASFLPRTL  
 NSISRIMSEAGSGTLEDEWQAISEIASTCNTILESLSREGQPIPESGDPKGTPKSDAEPEPGNLSEK  
 VSHLESMLRKLQEDLQKEKADRAALEEEVRSRHRNNRRLQAESESAATRLLASKQLGSPTADLA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

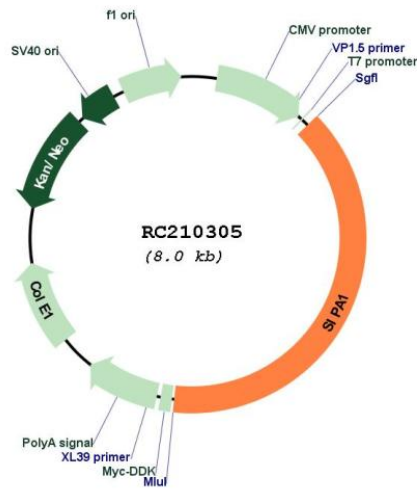
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_006747

ORF Size:

3126 bp

OTI Disclaimer:

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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_006747.4</a>
<b>RefSeq Size:</b>	3513 bp
<b>RefSeq ORF:</b>	3129 bp
<b>Locus ID:</b>	6494
<b>UniProt ID:</b>	<a href="#">Q96FS4</a>
<b>Cytogenetics:</b>	11q13.1
<b>Domains:</b>	Rap_GAP, PDZ
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS
<b>Protein Pathways:</b>	Leukocyte transendothelial migration
<b>MW:</b>	112.1 kDa
<b>Gene Summary:</b>	The product of this gene is a mitogen induced GTPase activating protein (GAP). It exhibits a specific GAP activity for Ras-related regulatory proteins Rap1 and Rap2, but not for Ran or other small GTPases. This protein may also hamper mitogen-induced cell cycle progression when abnormally or prematurely expressed. It is localized to the perinuclear region. Two alternatively spliced variants encoding the same isoform have been characterized to date. [provided by RefSeq, Jul 2008]