

Product datasheet for **RG210305**

SIPA1 (NM_006747) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIPA1 (NM_006747) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SIPA1
Synonyms:	SPA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210305 representing NM_006747 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCATGTGGGCCGGCGGTGTGGGAGCCCTCGGCCGGGCATGGCCCTGCGTCCACAGATGACCTCT
TTGCCCGCAAGCTGCGCCAGCCAGCAAGGCCCGCTGACACCGCACACCTTCGAGCCGAGGCCAGTCCG
GGGCCACTCCTGCGCAGCGGCAGCGATGCAGGCGAGGCCAGGCCCGCCACGCCAGCCCGCTGCC
CGTGCCACAGCCACGAAGAGGCCAGCCGACCTGCAGCCACTTCCACCCGGCTTCTACTGACCCGCTGG
CACTGCTGGGGTGCAGCAGAGGAACAGAGCCTGCCTCCACCAAGTCTGAGCCTCGATGGTTTGC
CCACTATGACGTGCAAAGCCTGCTCTTTGATTGGGCTCCGAGGTCTCAGGGGATGGGGAGCCACTCAGAG
GCCAGCTCTGGGACCTGGCTTCAGCCGAGGACAGGCTGCCAGCTCGGACCTGCTGCATGGGGACCTG
GCTTTGTGTGTGAGCTCGGGGTGAGGGTGTAGGCTGGGTGGACCAGCATCCCCACCTGTGCCCC
TGCACTGCCAACCGCGCCGTGTCCATCCTGGAGGAGCCAGAAACCACTCGGCCTACAGCCTGGAG
CACGCAGACCTGGGTGCTGGCTACTACCGCAAATACTTCTATGGCAAAGAATCAGAATTTCTCGGGA
TGGACGAGTCGCTGGGCCGGTGGCAGTGAGCCTGCGGCCGGGAGGAGAAGGAGGGCAGCGGAGGGGCAC
CCTGCACAGCTACCGCGTCATCGTGCGGACCACGACGCTCCGGACACTCCGTGGCACCATCTCGGAGGAC
GCGCTGCCCGGGGCCCGCCAGGGTCTGTCCCAAGGAACTTCTGGAGCAGCTGGCGCCGAGCTGA
GCCAGCTGCTTGGCCTGGGCTCAGCTTACCCAAGTACCACGGACGCTGCTCACACTGGATGAGCA
AGTGCTGAGCTTCCAACGCAAGGTGGGCATCCTGTACTGCCGGCGGGCCAGGGCTCGGAGGAGGATG
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AAGGCTTTGAGAGTTACCGGGCCAGCTAGACACCAAAACGGATTCCACAGGCACGCACTCCCTCTACAC
CACATAACCAGGACCAGAGATCATGTTCCAGTGTCCACGATGCTGCCTTACACCCTAATAACCAGCAG
CAGCTCCTCCGGAAGCGCCACATTGGCAACGACATTGTGACCATCGTGTCCAGGAGCCTGGCAGCAAGC
CCTTCTGCCCCACCACCTCCGCTCGCACTTCCAGCAGTGTTCCTAGTGGTGGGGCACACACCCCTG
CACCCACACACCACCTACAGGGTGGCCGTGAGCCGACCCAGGACCCCTGCCTTCGGCCAGCTCTG



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CCTGCTGGCGGAGGCCCTTCGACGCAACGCCGACTTCCGGGCTTCCTGCTGGCCAAAGCGCTGAATG
 GTGAGCAGGCGGCCGCCACGCGGCCAGTTCCACGCCATGGCCACGCGCACCCGCCAGCAGTACCTGCA
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 AACTCCATCAGCAGGATCATGTCGGAGGCGGGCAGTGGGACCCTGGAGGACGAGTGGCAGGCCATCTCGG
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 AGGAGGTGCGGAGCCTGAGACACAACAACCGCGGCTGCAGGCGGAGTCTGAGAGTGCAGCCACACGCT
 CCTCCTGGCCTCAAGCAGCTGGGCTCACCCACCGCCGACTGGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG210305 representing NM_006747
 Red=Cloning site Green=Tags(s)

MPMWAGVGSPRRGMAPASTDDLARKLRQPARPPLTPHTFEPRPVGRPLLRSGSDAGEARPPTPASPRA
 RAHSHEEASRPAATSTRLFTDPLALLGLPAEPEPAFPVLEPRWFVHYDVQSLLDWAPRSQGMGSHSE
 ASSGTLASAEDQAASSDLLHGAPGFVCELGGEGELGLGGPASPPVPPALPNAAVSILEEPQNRTSAYSLE
 HADLGAGYYRKYFYGKEHQNFQMGDESLGPVAVSLRREEKEGSGGGTLHSYRIVRRTQLRRLRGTISED
 ALPPGPPRGLSPRKLLEHVAPQLSPSCLRLGSASPKVPRTLLTLDEQVLSFQRKVGILYCRAGQGSEEM
 YNNQEAAGPAMQFLTLLGDVVRLKGFESYRAQLDTKDSTGTHSLYTTYQDHEIMFHVSTMLPYTPNNQQ
 QLLRKRHIGNDIVTIVFQEPGSKPFCPTTIRSHFQHVFLVVRATPCTPHTTYRVAVSRTQDTPAFGPAL
 PAGGGPFAANADFRAFLAKALNGEQAAGHARQFHAMATRTRQQYLQDLATNEVTTTSLDSARFGLPSL
 GRRRAAPRGPAGELQAAGSLVWGVRAAPGARVAAGAQAASGPEGIEVPCLLGISAEALVLAAPRDRVVF
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 EYDAEGFVTHVERFTFAETAGLRPGARLLRVCGQTLPSLRPEAAAQLRSAPKVCVTVLPPDESGRPRRS
 FSELYTSLQEPSRRGAPDPVQDEVQGVTLPTTKQLLHLCQDGGSPGPGDLAEERTEFLHSQNSLSP
 RSSLSDEAPVLPNTTPDLLLATTAKPSVPSADSETPLTQDRPGSPSGSEDKGNPAPELRASFLPRTL
 NSISRIMSEAGSGTLEDEWQAISEIASTCNTILESLSREGQPIPESGDPKGTPKSDAEPEPGNLSEKVS
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TRTRPLE – GFP Tag – V

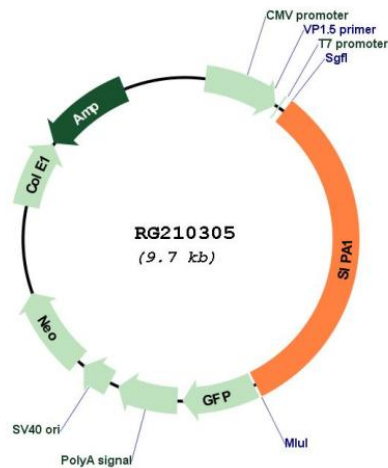
Restriction Sites:

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](#)

OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_006747.2</u> , <u>NP_006738.2</u>
RefSeq Size:	3511 bp
RefSeq ORF:	3129 bp
Locus ID:	6494
UniProt ID:	<u>Q96FS4</u>
Cytogenetics:	11q13.1
Domains:	Rap_GAP, PDZ
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS
Protein Pathways:	Leukocyte transendothelial migration
Gene Summary:	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]