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Product datasheet for SC100541

SIPA1 (NM_153253) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIPA1 (NM_153253) Human Untagged Clone
Tag:	Tag Free
Symbol:	SIPA1
Synonyms:	SPA1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC100541 sequence for NM_153253 edited (data generated by NextGen Sequencing) ATGCCCATGTGGGCCGGCGGTGTGGGGAGCCCTCGGCGGGGCATGGCCCCTGCGTCCACA GATGACCTCTTTGCCCGCAAGCTGCGCCAGCCAGCAAGGCCCCCGCTGACACCGCACACC TTCGAGCCGAGGCCAGTCCGGGGCCCACTCCTGCGCAGCGGCAGCGATGCAGGCGAGGCC AGGCCCCCCACGCCAGCCAGCCCCCGTGCCCGTGCCCACAGCCACGAAGAGGCCAGCCGA CCTGCAGCCACTTCCACCCGGCTCTTCACTGACCCGCTGGCACTGCTGGGGCTGCCAGCA GAGGAACCAGAGCCTGCCTTCCCACCAGTGCTTGAGCCTCGATGGTTTGCCCACTATGAC GTGCAAAGCCTGCTCTTTGATTGGGCTCCGAGGTCTCAGGGGATGGGGAGCCACTCAGAG GCCAGCTCTGGGACCCTGGCTTCAGCCGAGGACCAGGCTGCCAGCTCGGACCTGCTGCAT GGGGCACCTGGCTTTGTGTGTGAGCTCGGGGGTGAGGGTGAGCTAGGCCTGGGTGGACCA GCATCCCCACCTGTGCCCCCTGCACTGCCCAACGCGGCCGTGTCCATCCTGGAGGAGCCA CAGAACCGAACCTCGGCCTACAGCCTGGAGCACGCAGACCTGGGTGCTGGCTACTACCGC AAATACTTCTATGGCAAAGAACATCAGAACTTCTTCGGGATGGACGAGTCGCTGGGCCCG GTGGCAGTGAGCCTGCGGCGGGAGGAGAAGGAGGGCAGCGGAGGGGGCACCCTGCACAGC TACCGCGTCATCGTGCGGACCACGCAGCTCCGGACACTCCGTGGCACCATCTCGGAGGAC GCGCTGCCGCCGGGGCCCCCACGGGGTCTGTCCCCAAGGAAACTTCTGGAGCACGTGGCG CCGCAGCTGAGCCCCAGCTGCCTGCGCCTGGGCTCAGCTTCACCCAAGGTACCACGGACG CTGCTCACACTGGATGAGCAAGTGCTGAGCTTCCAACGCAAGGTGGGCATCCTGTACTGC CGGGCGGGCCAGGGCTCGGAGGAGGAGATGTACAACAACCAGGAGGCGGGACCGGCCTTC ATGCAGTTTCTCACCTTGCTGGGCGATGTGGTGCGGCTCAAAGGCTTTGAGAGTTACCGG GCCCAGCTAGACACCAAAACGGATTCCACAGGCACGCACTCCCTCTACACCACATACCAG GACCACGAGATCATGTTCCACGTGTCCACGATGCTGCCTTACACCCCTAATAACCAGCAG CAGCTCCTCCGGAAGCGCCACATTGGCAACGACATTGTGACCATCGTGTTCCAGGAGCCT GGCAGCAAGCCCTTCTGCCCCACCACCATCCGCTCGCACTTCCAGCACGTGTTCCTAGTG GTGCGGGCACACACACCCTGCACGCCACACACCACCTACAGGGTGGCCGTGAGCCGCACC CAGGACACCCCTGCCTTCGGGCCAGCTCTGCCTGCTGGCGGAGGCCCCTTCGCAGCCAAC

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GCCGACTTCCGGGCCTTCCTGCTGGCCAAAGCGCTGAATGGTGAGCAGGCGGCCGGCCAC
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GCCCTGGAGGAGGAGGTGCGGAGCCTGAGACACAACAACCGGCGGCTGCAGGCGGAGTCT
GAGAGTGCAGCCACACGCCTCCTCCTGGCCTCCAAGCAGCTGGGCTCACCCACCGCCGAC
CTGGCCTGA

Clone variation with respect to

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_153253 unedited
TAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCATTTAGGTGACACTATAGAATA
CAAGCTACTTGTTCTTTTTGCAGCGGCCGCGAATTCGGCACGAGGGCGGGACCCCAGCGC
GGGCGGCGGCGGCTGGGCGGGAGCCCCAGAGGGCAGGAACTGCTGCCACAACCTCAGGCT
GGGCACCAAACACCCGTGCCCGCCAATGCGGCCCAGCCCCCGGAGAGTCAGGCCCACAGA
GCATGCCCATGTGGGCCGGCGGTGTGGGGAGCCCTCGGCGGGGCATGGCCCCTGCGTCCA
CAGATGACCTCTTTGCCCGCAAGCTGCGCCAGCCAGCAAGGCCCCCGCTGACACCGCACA
CCTTCGAGCCGAGGCCAGTCCGGGGCCCACTCCTGCGCAGCGGCAGCGATGCAGGCGAGG
CCAGGCCCCCCACGCCAGCCAGCCCCCGTGCCCGTGCCCACAGCCACGAAGAGGCCAGCC
GACCTGCAGCCACTTCCACCCGGCTCTTCACTGACCCGCTGGCACTGCTGGGGCTGCCAG
CAGAGGAACCAGAGCCTGCCTTCCCACCAGTGCTTGAGCCTCGATGGTTTGCCCACTATG
ACGTGCAAAGCCTGCTCTTTGATTGGGCTCCGAGGTCTCAGGGGATGGGGAGCCACTCAG
AGGCCAGCTCTGGGACCCTGGCTTCAGCCGAGGACCAGGCTGCCAGCTCGGACCTGCTGC
A

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_153253 unedited GAAAATCTATGNNACCGCGGCCGCAATTTANGATCGAGTTTTTTTTTTTTTTTTTTCAGT GGCTTTTTTACTCCCTGAAGTCCTCTTTTCTCCACAGAATATTTACAAACAGGGAAGGGG TGGAGGCCACTTCCGCCACCAAATAAGGGGCTAGGGAGGGGGGCAGTGCTAAGACACGCC TCTGCGCAGGGAGAGTTCCTGAGGAGGGCCCAGTGTGACCACAGTGCCCTCAGGGGCCCA GGTGGTTCCAGACGGCTCAGGCCAGGTCGGCGGTGGGTGAGCCCAGCTGCTTGGAGGCCA GGAGGAGGCGTGTGGCTGCACTCTCAGACTCCGCCTGCAGCCGCCGGTTGTTGTGTCTCA GGCTCCGCACCTCCTCCTCCAGGGCCGCCCTGTCCGCCTTCTCCTTCTGCAGGTCCTCCT GCAGCTTCCTGAGCATGGACTCCAAGTGAGAGACCTTCTCTGAGAGGTTCCCAGGCTCTG GCTCAGCATCAGATTTTGGAGTTCCCTTAAGGTCTCCACTCTCTGGGATGGGCTGTCCTG TGGGGACAAAAGGATCAGGTGGGCAGGTCAAAAAGGGGCAAGAACACTGCCCAGGCTTAC CGGAACCCCCTGTTGGGCTCCCCCTCTCGGACAACGACTCCCAAAAGGTGGTTCCAAGTA AAGGCAATCTTCCGAGATGGCCTGCCCTTCGTCCTCCAAGGTCCCCCTGGCGCCGCCCTC GACTAGAACCCCGCGGAAGGAGTTTCCCCAAAAACAAGGGACGTTGGCCAAAAAGAGAGC CCTAAATTTCGGGCCGGGGTTGGCTTTGTCTTAAAAACCCACGAAAAAGCTGGGCCGGTC TCGGGTAAGGGGGGGGTCCACTTCTAACCCGGGGACTAAAGGCCGGCGTCTATGGACCTC AAAAAAGTCCGGGGGT
Restriction Sites:	NotI-NotI
ACCN:	NM_153253
Insert Size:	3900 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:	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_153253.28, NP_694985.28
RefSeq Size:	3657 bp
RefSeq ORF:	3129 bp
Locus ID:	6494
UniProt ID:	Q96FS4
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]
Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same isoform.