

Product datasheet for **SC314333**

SPATA13 (NM_153023) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	SPATA13
Synonyms:	ARHGEF29; ASEF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF:

>SC314333 representing NM_153023.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACTTCTGCCAGCCCTGAAGACCAGAATGCTCCAGTGGGCTGCCCAAAGGAGCCCGGAGAAGGCGC
CCCATTTCGTGATAGGTGGGTGAGCTTGTATGGACCAACCAGACGGAGGAAGTGGACAATCTTCTG
ACCCAACCGGCTTCCAGGCCGCCATGCCCTGCTCACCAGGTGCCACCCTACAAGGCTGTGTGCGCCCGG
TTCCGGCCCTTACATTCTCCAGAGCACCCCATTTGGGTTGGACCGTGTGGGACGCCGGCGGCAGATG
AGAGCATCCAACGTTTCTTCCAGATGGAGGTACTGAGCCCTTGCCTTAGTGGATGACAACGGTAGTGAG
GAGGACTTCAGCTATGAAGACCTCTGCCAGGCCAGCCCTCGGTACCTGCAGCCCGCGGGGAGCAGCTG
GCCATCAATGAGCTGATCAGTGATGGCAACGTGGTCTGCGCAGAAGCCCTGTGGGACCATGTGACCATG
GATGACCAGGAAGTGGGCTTCAAAGCCGGGATGTATCCAGGTTCTGGAAGCCTCCAACAAGGACTGG
TGGTGGGGCCGAGTGAAGATAAGGAAGCCTGTTCCCGCGAGCTTCGTCAGATTGCGAGTGAATCAG
GAAGAGCTGTGCGAAACTCCAGCAGCACCCCAAGTGGAGCAGGACGAGGAGGCCAGCCAGAGCCGC
CACAGACACTGTGAGAACAGCAGCAGATGCGGACCAACGTATCCGGGAGATCATGGACACCGAGCGG
GTGTACATCAAACCTCAGGGACATCTGTGAGGGCTATATCCGACAGTCCCGCAAGCACACAGGAATG
TTCACCGTTGCGCAGCTAGCCACTATTTTGGAAACATTGAAGATTTTACAAATCCAAAGAAAGTTT
CTGAAAGACCTTGAGAAACAGTACAACAAGAGGAACCTCACTTAAGTGAATAGGATCTTGCTTTCTT
CAAAATCAAGAGGGCTTTGCCATCTATTCGAGTACTGCAACAACCAACCGGGCGCCTGCCTGGAGCTC
GCCAACCTCATGAAGCAGGGCAAGTACAGACATTTCTTTGAAGCCTGCCGCTGCTGCAGCAGATGATT
GACATCGCCATCGACGGGTTCTGCTCACACCAAGTGCAGAAGATCTGCAATACCCGCTGCAGCTGGCC
GAGCTGCTCAAGTATACCACACAGGAACACGGTATTACAGCAACATAAAGGCAGCATATGAGGCCATG
AAGAATGTGGCCTGTCTGATCAACGAGCGCAAGCGCAAGCTGGAGAGCATCGACAAGATAGCTCGCTGG
CAGGTGTCTATCGTGGGCTGGGAGGACTGGATATCTTAGACCGAAGCTCAGAATTGATTATTCTGGG
GAGCTGACCAAAATCACTAAGCAAGGCAAAAGCCAGCAGCGGACGTTTCTCCTGTTTGACCAACAGCTG
GTGCTCTGCAAGAAGGACCTGCTGCGCAGGGACATGCTGTACTACAAGGGCCGGCTGGACATGGATGAG
ATGGAGCTTGTGGACCTGGGGATGGGCGCGACAAGGACTGCAACCTCAGCGTGAAAAATGCCTTCAAG
CTCGTCAGTAGGACCACAGACGAGGTTTATTTGTTTTGTGCCAAAAACAAGAAGACAAGGCGAGGTGG
CTGCAGGCTGTGCAGATGAAAGGAGGCGGGTGAAGAGGACAAGGAGATGGGAATGGAAATTCAGAA
AACCAGAAGAACTTGCCATGTTAATGCTCAAAGGCAGGACATGAAAGTCAAAGGCTACAACAGG
TGCCCTGTGGCCCCACCGACAGGGCCTGCACCCATCCACCAGCGCCACATCACTATGCCCAACAGC
GTCCCCCAGCAGAGGTCTTTGGCCTGGCGGAACCCAAGAGGAAGTCTCGCTCTTCTGGCACACCTTC
AACAGGCTCACCCCTTCCGGAATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCCCGGC
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Restriction Sites:

SgfI-MluI

ACCN:

NM_153023

Insert Size:

1959 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).

OTI Annotation:

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_153023.3
RefSeq Size:	6699 bp
RefSeq ORF:	1959 bp
Locus ID:	221178
UniProt ID:	Q96N96
Cytogenetics:	13q12.12
Domains:	RhoGEF, SH3, PH
MW:	74.8 kDa
Gene Summary:	Acts as guanine nucleotide exchange factor (GEF) for RHOA, RAC1 and CDC42 GTPases. Regulates cell migration and adhesion assembly and disassembly through a RAC1, PI3K, RHOA and AKT1-dependent mechanism. Increases both RAC1 and CDC42 activity, but decreases the amount of active RHOA. Required for MMP9 up-regulation via the JNK signaling pathway in colorectal tumor cells. Involved in tumor angiogenesis and may play a role in intestinal adenoma formation and tumor progression.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' reading frame, and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus than isoform 1. 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.