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Product datasheet for SC327299

SPATA13 (NM_001166271) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPATA13 (NM_001166271) Human Untagged Clone
Tag:	Tag Free
Symbol:	SPATA13
Synonyms:	ARHGEF29; ASEF2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>NCBI ORF sequence for NM_001166271, the custom clone sequence may differ by one or more nucleotides

ATGACCCAGGCTGCCGTGCGGCCCTGGGCACCCTGCCTGGAGAACATGACCACTGCCCCA
AACGGCCTCGGGCCAGGCCCCGCAGCCCCCTGTGCAGGCTCGGACCTGAAAGACGCCAAG
ATGGTGACCTCCCTTGCGTGTGGAAATGGAGTCTGTGGCTGCAGCCCTGGTGGCGACACG
GACACCCAGGAAGCCAAACTCAGCCCAGCCAAGCTTGTGCGCCTCTTTTCCACCAGTCGG
AAGAGGACGGGTGCCCACCCCGAGCGGCCCCACTCCATGGTCCTGGTGGGGAACTCCTCC
ACATGGAACACCCTCGCCTCCTTCCGGAAAATGGGATCCTTTAAGAAACTGAAGTCCTCA
GTCCTGAAAGGAATTCAGAGCCGAGAGGGGTCAAATGCCTGTTCAAAGGGAGAGGCTTCG
GAGCATGGCCTGGGAAAGTCCATCCCAAATGGCGCTGTCCCAGGAGCCCAGGCAAGCAGG
GGCTCCCCCTTAGCACCGGGACCAGCATGTGGTGCCCTCAGGCCAGCAGAGTGGGGCACA
TTGGATGGCTCCGACCTCGAGGACACGGACGATGCCTTCCAGCGGAGCACACACCGCTCC
CGCAGCCTCCGCAGAGCCTACGGCCTGGGCCGCATCTGCCTGCTGGATGCGCCCCAGAAC
CATGCGACACCCACGATAGCCACTGGCCAGGTGCCCGCCGTGTGTGAGATTCTCGTGAGG
GACCCTGAAAACAACAGCATGGGCTACAGGAGGAGCAAGAGCACGGACAATCTTGCCTTT
CTGAAGAAGAGCTCCTTTAAGCGGAAGTCCACCTCCAATCTTGCAGACCTCAGGACGGCC
CATGACGCACGGGTACCACAGAGGACCCTGAGCAGTTCCTCCACTGACTCCCAAAAGCTT
GGGTCAGGAAGGACCAAACGCTGGAGGAGCCCGATAAGGGCCAAGGACTTTGACAGAGTC
TTCAAACTTGTGAGCAATGTGACTGAGGCTGCCTGGAGGAGGGAGAGTCCTAGGAGTGGG
GCCCCATCCCCTGGAGAGGCCAGCCTGAGACTTCAGGCACACAGCCGGCTGCATGACGAC
TACTCCCGCCGCGTCTCCAGGAGCACTGAGCAGGACAGCAGGCGGGGCGGGGCGGTCATG
CATGGGACCACTGCAACCTGCACCGTGGCCCCCGGTTTCGGCTCAGCCACCTCTAAGGGG
CCCCACCTAGACGCTGACACTGCCGTATTTCCTCTTGAAACCAAAAGTTCCTGGGCGGTG
GAAAGCGACAGTTCCTGCACTTGCAGCTCTTTGCCAAGCCCGATTGTCCAGGATGTGTTG
AGCAAAGACTCCTGTGACCCAAACGCTGGCAGCCAGTTGACATTTGACCCTGAGCAGCCT
CCCACCCCTCTAAGGCCCACCACACCCAAGCCCCAGAGCCCTCAGAGCCCCCAGAGCCCC
GGGGCAGGAAGTGCCAGCTGTCACAGCAATCACAGTGCCCTGTCCGCGAATTCAGAGGAA

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AGTGAAGGAAGGGCAGAAGAGCCTGCTCAGAGAGAGCCAGGGCCTGTGTCCTTGCAGGAT
CCCCTGGAAGCCACACATGGTGATGAGGGCAGCAAGGACCTTCTGGTGAACATTGGTGTG
GCAGCCGGCCCAGAAGAAAAGGAGAAGGAGGAGGTCGTCCCTGATGGCCCCTGGAGGCGA
AGCTCATCACAGGATGAGGAAAGGACAGAGGCACAGAGAACCCCCAAGAGGAGATGGGGC
TCTGGGAGACGGCCAAGGCCTCGGCCATTCTCTGACTACGGCCAGCTGGCCAGCCGCAGT
TTGTCTATTCCTGAAGACTCGGTTGCTGCAGACCCCCAGAAGGAAGACCGTGTGGACGAG
GACCCCCAGGCAAGCATGACTTCTGCCAGCCCTGAAGACCAGAATGCTCCAGTGGGCTGC
CCCAAAGGAGCCCGGAGAAGGCGCCCCATTTCCGTGATAGGTGGGGTCAGCTTGTATGGG
ACCAACCAGACGGAGGAACTGGACAATCTTCTGACCCAACCGGCTTCCAGGCCGCCCATG
CCTGCTCACCAGGTGCCACCCTACAAGGCTGTGTCGGCCCGGTTCCGGCCCTTCACATTC
TCCCAGAGCACCCCCATTGGGTTGGACCGTGTGGGACGCCGGCGGCAGATGAGAGCATCC
AACGTTTCTTCAGATGGAGGTACTGAGCCCTCTGCCTTAGTGGATGACAACGGTAGTGAG
GAGGACTTCAGCTATGAAGACCTCTGCCAGGCCAGCCCTCGGTACCTGCAGCCCGGCGGG
GAGCAGCTGGCCATCAATGAGCTGATCAGTGATGGCAACGTGGTCTGCGCAGAAGCCCTG
TGGGACCATGTGACCATGGATGACCAGGAACTGGGCTTCAAAGCCGGGGATGTCATCCAG
GTTCTGGAAGCCTCCAACAAGGACTGGTGGTGGGGCCGCAGTGAAGATAAGGAAGCCTGG
TTCCCCGCGAGCTTCGTCAGATTGCGAGTGAATCAGGAAGAGCTGTCGGAAAACTCCAGC
AGCACCCCCAGTGAGGAGCAGGACGAGGAGGCCAGCCAGAGCCGCCACAGACACTGTGAG
AACAAGCAGCAGATGCGGACCAACGTCATCCGGGAGATCATGGACACCGAGCGGGTGTAC
ATCAAACACCTCAGGGACATCTGTGAGGGCTATATCCGACAGTGCCGCAAGCACACAGGA
ATGTTCACCGTTGCGCAGCTAGCCACTATTTTTGGAAACATTGAAGATATTTACAAATTC
CAAAGAAAGTTTCTGAAAGACCTTGAGAAACAGTACAACAAAGAGGAACCTCACTTAAGT
GAAATAGGATCTTGCTTTCTTCAAAATCAAGAGGGCTTTGCCATCTATTCCGAGTACTGC
AACAACCACCCGGGCGCCTGCCTGGAGCTCGCCAACCTCATGAAGCAGGGCAAGTACAGA
CATTTCTTTGAAGCCTGCCGCCTGCTGCAGCAGATGATTGACATCGCCATCGACGGGTTC
CTGCTCACACCAGTGCAGAAGATCTGCAAATACCCGCTGCAGCTGGCCGAGCTGCTCAAG
TATACCACACAGGAACACGGTGATTACAGCAACATAAAGGCAGCATATGAGGCCATGAAG
AATGTGGCCTGTCTGATCAACGAGCGCAAGCGCAAGCTGGAGAGCATCGACAAGATAGCT
CGCTGGCAGGTGTCTATCGTGGGCTGGGAGGGACTGGATATCTTAGACCGAAGCTCAGAA
TTGATTCATTCTGGGGAGCTGACCAAAATCACTAAGCAAGGCAAAAGCCAGCAGCGGACG
TTCTTCCTGTTTGACCACCAGCTGGTGTCCTGCAAGAAGGACCTGCTGCGCAGGGACATG
CTGTACTACAAGGGCCGGCTGGACATGGATGAGATGGAGCTTGTGGACCTGGGGGATGGG
CGCGACAAGGACTGCAACCTCAGCGTGAAAAATGCCTTCAAGCTCGTCAGTAGGACCACA
GACGAGGTTTATTTGTTTTGTGCCAAAAAACAAGAAGACAAGGCGAGGTGGCTGCAGGCC
TGTGCAGATGAAAGGAGGCGGGTGCAAGAGGACAAGGAGATGGGAATGGAAATTTCAGAA
AACCAGAAGAAACTTGCCATGTTAAATGCTCAAAAGGCAGGACATGGAAAGTCAAAAGGC
TACAACAGGTGCCCTGTGGCCCCACCGCACCAGGGCCTGCACCCCATCCACCAGCGCCAC
ATCACTATGCCCACAAGCGTCCCCCAGCAGCAGGTCTTTGGCCTGGCGGAACCCAAGAGG
AAGTCCTCGCTCTTCTGGCACACCTTCAACAGGCTCACCCCCTTCCGGAAA

Restriction Sites: Please inquire

ACCN: NM_001166271

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.
RefSeq:	NM_001166271.1, NP_001159743.1
RefSeq Size:	8457 bp
RefSeq ORF:	3834 bp
Locus ID:	221178
UniProt ID:	Q96N96
Cytogenetics:	13q12.12
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 (1) encodes 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.