

Product datasheet for **RC239032**

SPATA13 (NM_001286794) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPATA13 (NM_001286794) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SPATA13
Synonyms:	ARHGEF29; ASEF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC239032 representing NM_001286794
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

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Protein Sequence:

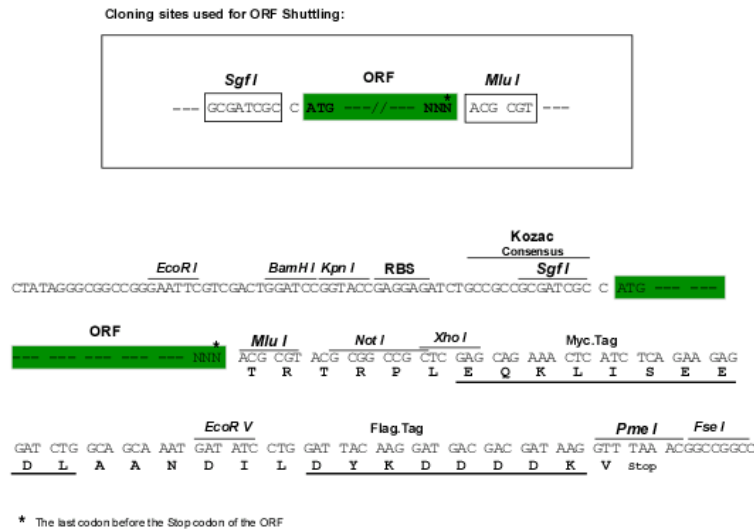
>RC239032 representing NM_001286794
 Red=Cloning site Green=Tags(s)

MGFIHIHQVVKQRKKLDQGLILKKEKYRKEKCKASLSFEVSSDGGTEPSALVDDNGSEEDFSYEDLCQA
 SPRYLQPGGEQLAINELISDGNVCAEALWDHVTMDDELGFKAGDVIQVLEASNKDWVWGRSEDKEAWF
 PASFVRLRVNQEELSENSSTPSEEQDEEASQSRHRHCENKQMQRTNVIREIMDTERVYIKHLRDICEGY
 IRQCRKHTGMFTVAQLATIFGNIEDIYKFQRFKLDLEKQYNKEEPLSEIGSCFLQNQEGFAIYSEYCN
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 IKAAYEAMKNVACLINERKRKLESIDKIARWQVSIVGWEGLDILDRSSELHSGELTKITKQGSQQRFT
 FLFDHQLVSCCKDLLRRDMLYYKGRLDMEMLVDLGDGRDKDCNLSVKNAFKLVSRITDEVYLFCAKKQ
 EDKARWLQACADERRRVQEDKEMGEISENQKKLAMLNAQKAGHGKSKGYNRCVPVAPPHQLHPIHQRI
 TMPTSVPPQQVFLAEPKRKSSLFWHTFNRLTPFRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001286794

ORF Size: 1788 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:

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_001286794.1](#), [NP_001273723.1](#)

RefSeq Size: 6405 bp

RefSeq ORF: 1791 bp

Locus ID: 221178

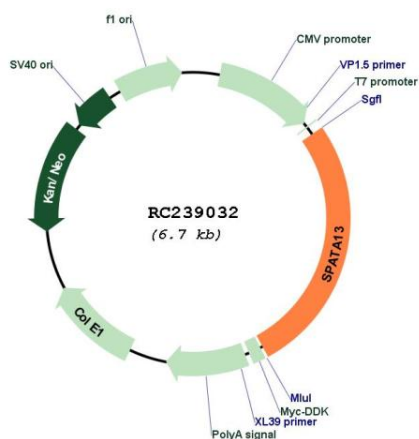
UniProt ID: Q96N96

Cytogenetics: 13q12.12

MW: 69.6 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]

Product images:



Circular map for RC239032