

Product datasheet for **RC219804**

SARA (ZFYVE9) (NM_007323) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SARA (ZFYVE9) (NM_007323) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SARA
Synonyms:	MADHIP; NSP; SARA; SMADIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC219804 representing NM_007323
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGAGAATTACTTCCAAGCAGAAGCTTACAACCTGGACAAGGTGTTAGATGAATTTGAACAAAACGAAG
ATGAAACAGTTTCTTCTACTTTATTGGATACAAAGTGAATAAGATTCTAGATCCCCCTTCCACCGGCT
GTCATTTAACCCACTTTGGCCAGTGTGAATGAATCTGCAGTTTCTAATGAGTCACAACCACAACCTGAAA
GTCTTCTCCCTGGCTCATTAGCTCCCCTGACCACAGAGGAAGAGGATCACTGTGCTAATGGACAGGACT
GTAATCTAAATCCAGAGATTGCCACAATGTGGATTGATGAAAATGCTGTTGCAGAAGACCAGTTAATTA
GAGAACTATAGTTGGGATGATCAATGCAGTGTGTTGAAGTGGGAGAGAAGAAATGTGGAAACCTGGCT
TGTCTGCCAGATGAGAAGATGTTCTTGTGTAGCCGTCATGCATAACTGTGATAAAAGGACATTACAAA
ACGATTTACAGGATTGAATAATTATAATAGTCAATCCCTTATGGATGCTTTTAGCTGTTCACTGGATAA
TGAAAACAGACAACTGATCAATTTAGTTTTAGTATAAATGAGTCCACTGAAAAAGATATGAATTCAGAG
AAACAAATGGATCCATTGAATAGACCGAAAACAGAGGGGAGATCTGTTAACCATCTGTGTCTACTTCAT
CTGATAGTCTAGCCAGTGTCTGTTCCCTTACAAATTAAGGATGACGGAAGTATAGGTAGAGACCCCTC
CATGTCTGCGATTACAAGTTAACGGTTGATTAGTCAATCTCATCCCAGGGAACAGATGGATGTCCTGCT
GTTAAAAAGCAAGAGAATATATACCAGATGAGGACCTCACTGGCAAAATCAGCTCTCCTAGGACAGATC
TAGGGAGTCCAAATTCCTTTCCACATGAGTGAAGGGATTTTGTGAAAAAAGAGCCAGCAGAGGAGAG
CACCCTGAAGAATCCCTCCGGTCTGGTTACCTTTGCTTCTCAAACCAGACATGCCTAATGGGTCTGGA
AGGAATAATGACTGTGAACGGTGTTCAGATTGCCTTGTGCCTAATGAAGTTAGGGCTGATGAAAAATGAAG
GTTATGAACATGAAGAACTCTTGGCACTACAGAATTCCTTAATATGACAGAGCATTCTCTGAATCTCA
GGACATGACTAATTGGAAGTTGACTAACTAAATGAGATGAATGATAGCCAAGTAAACGAAGAAAAGGAA
AAGTTTCTACAGATTAGTCAGCCTGAGGACACTAATGGTATAGTGGAGGACAGTGTGTTGGATTGGCAG
ATGCAGGTCTAGATTTAAAAGGAACTTGCATTAGTGAAGTGAAGAATGTGATTTCTCCACTGTTATAGA
CACACCAGCAGCAAATTAATCTATCTAATGGTTGTGATTCTATGGAATGCAAGACCCAGGTGTTCTTTT
GTTCCAAAGACTTACCCTCAAAGAAGATTAGTAAACAGAGAAAAAGAAATAGAGGAAAGCAAGTCAG
AATGCTACTCAAATTTTATGAACAGAGAGGAAATGAGGCCACAGAAGGGAGTGGACTACTTTTAAACAG
CACTGGTGACCTAATGAAGAAAAATTTTACATAATTTCTGTAGTCAAGTTCATCAGTCTTGGGCAA
TCTTCCCAAGGTAGTAGCAAGCCTGCCATCTATCAGTGTTCCTTTTGGTGGTGAAGACCCAAGCAAC
CTTCTAATCTTAACTTCAAATTCAAAAGCCATTATCAGACCATTACAAAATGACTTTCCTGCAACACAG
TGGAAATAATACTAAAAATAAAATGATATTCTTGGGAAAGCAAAATAGGGGAAAACCTAGCAACCAAT
GTATGCAGTCCATCTTTGGGAAACATCTCTAATGTGATACAAATGGGGAACATTTAGAAAGTTATGAGG
CTGAGATCTCCACTAGACCATGCCTTGCATTAGCTCCAGATAGCCAGATAATGATCTCAGAGCTGGTCA
GTTTGGAAATTTCTGCCAGAAAGCCATTCACCCTCTGGGTGAGGTGGCTCCAGTATGGGTACCGGATTCT
CAGGCTCCAAATTCATGAAATGTGAAGCCAGGTTTACATTACCAAAAAGGAGGCATCACTGCAGAGCAT
GTGGGAAGGTTTTCTGTGCTTCTGCTGTAGCCTGAAATGTAACTGTTATACATGGACAGAAAGGAAGC
TAGAGTGTGTGAATCTGCCATTCAGTGCTAATGAATGGTAAGTAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC219804 representing NM_007323
 Red=Cloning site Green=Tags(s)

MENYFQAEAYNLDKVLDEFEQNEDETVSSTLLDTKWINKILDPPSHRLSFNPTLASVNESAVSNESQPQLK
 VFLSAHSAPLTTTEEDHCANGQDCNLNPEIATMWIDENAVAEDQLIKRNYSWDDQCSAVEVGEKKCGNLA
 CLPDEKNVLLVVAVMHNC DKRTLQNDLQDCNNYNSQSLMDAFSCSLDNENRQTDQF SFSINESTEKMNSE
 KQMDPLNRPKTEGRSVNHL CPTSSDSLAVSCSPSQLKDDGSI GRDPSMSAITSLTVDSVSISSQGTGCPA
 VKKQENYIPDEDLTGKISSPRTL GSPNSF SHMSEGILMKKEPAEESTTEESLRSGLPLLLKPDMPNGSG
 RNND CERCSDCLVPNEVRADENEGYEHEETLGTTEFLNMTTEHFSESQDMTNWKLTKLNEMNDSQVNEEKE
 KFLQISQPEDTNGDSGGQCVGLADAGLDLKGTCISESEECDFSTVIDTPAANYLSNGCDSYGMQDPGVSF
 VPKTLPSKEDSVTEEKEIEESKSECYSNIYEQRGNEATEGSGLLLNSTGDLMKKNYLHNFCSQVPSVLGQ
 SSPKVVASLPSISVPPFGGARPQPSNLKLIQPKPLSDHLQNDFFPANSNNTKNKNDILGKAKLGENSATN
 VCSPSLGNI SNVDN GEHLESYEA EISTRPC LALAPDSPDNDLRAGQFGISARKPFTTLGEVAPVWVPDS
 QAPNCMKCEARFTFKRRHHCRACGKVFACSCSLKCKLLYMDRKEARVCVICHSVLMNGKY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_007323

ORF Size: 2286 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.

RefSeq: [NM_007323.1](#), [NP_015562.1](#)

RefSeq Size: 2625 bp

RefSeq ORF: 2288 bp

Locus ID: 9372

Cytogenetics: 1p32.3

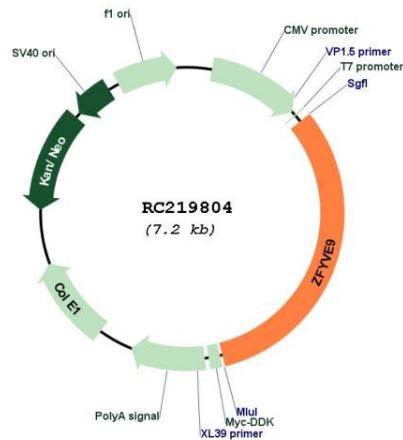
Domains: FYVE

Protein Pathways: TGF-beta signaling pathway

MW: 83.5 kDa

Gene Summary: This gene encodes a double zinc finger motif-containing protein that participates in the transforming growth factor-beta (TGFB) signalling pathway. The encoded protein interacts directly with SMAD2 and SMAD3, and recruits SMAD2 to the TGFB receptor. There are multiple pseudogenes for this gene on chromosomes 2, 15, and X. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2013]

Product images:



Circular map for RC219804