

Product datasheet for **RG219804**

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:	TurboGFP
Symbol:	SARA
Synonyms:	MADHIP; NSP; SARA; SMADIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG219804 representing NM_007323
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGAATTACTTCCAAGCAGAAGCTTACAACCTGGACAAGGTGTTAGATGAATTTGAACAAAACGAAG
 ATGAAACAGTTTCTTCTACTTTATTGGATACAAAGTGAATAAGATTCTAGATCCCCCTTCCACCGGCT
 GTCATTTAACCTACTTTGGCCAGTGTGAATGAATCTGCAGTTTCTAATGAGTCACAACCACAACCTGAAA
 GTCTTCTCCCTGGCTCATTACAGCTCCCCTGACCACAGAGGAAGAGGATCACTGTGCTAATGGACAGGACT
 GTAATCTAAATCCAGAGATTGCCACAATGTGGATTGATGAAAAAGCTGTTGCAGAAGACCAGTTAATTA
 GAGAACTATAGTTGGGATGATCAATGCAGTGTGTTGAAGTGGGAGAGAAGAAATGTGGAAACCTGGCT
 TGTCTGCCAGATGAGAAGAATGTTCTTGTGTAGCCGTCATGCATAACTGTGATAAAAGGACATTACAAA
 ACGATTTACAGGATTGAATAATTATAATAGTCAATCCCTTATGGATGCTTTTAGCTGTTCACTGGATAA
 TGAACACAGACAACTGATCAATTTAGTTTTAGTATAAATGAGTCCACTGAAAAAGATATGAATTCAGAG
 AAACAAATGGATCCATTGAATAGACCGAAAACAGAGGGGAGATCTGTTAACCATCTGTGTCTACTTCAT
 CTGATAGTCTAGCCAGTGTCTGTTCCCTTTCACAATTAAGGATGACGGAAGTATAGGTAGAGACCCCTC
 CATGTCTGCGATTACAAGTTAACGGTTGATTACAGTAATCTATCCCAGGGAACAGATGGATGTCCTGCT
 GTTAAAAAGCAAGAGAATATATACCAGATGAGGACCTCACTGGCAAAATCAGCTCTCCTAGGACAGATC
 TAGGGAGTCCAAATTCCTTTCCACATGAGTGAGGGGATTTTGTGAAAAAAGAGCCAGCAGAGGAGAG
 CACCACTGAAGAATCCCTCCGGTCTGGTTACCTTTGCTTCTCAAACCAGACATGCCTAATGGGTCTGGA
 AGGAATAATGACTGTGAACGGTGTTCAGATTGCCTTGTGCCTAATGAAGTTAGGGCTGATGAAAAATGAAG
 GTTATGAACATGAAGAACTCTTGGCACTACAGAATTCCTTAATATGACAGAGCATTCTCTGAATCTCA
 GGACATGACTAATTGGAAGTTGACTAACTAAATGAGATGAATGATAGCCAAGTAAACGAAGAAAAGGAA
 AAGTTTCTACAGATTAGTCAGCCTGAGGACACTAATGGTATAGTGGAGGACAGTGTGTTGGATTGGCAG
 ATGCAGGTCTAGATTTAAAAGGAACTTGCATTAGTGAAGTGAAGAATGTGATTTCTCCACTGTTATAGA
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 GTTCCAAAGACTTACCCTCAAAGAAGATTAGTAAACAGAGAAAAAGAAATAGAGGAAAGCAAGTCAG
 AATGCTACTCAAATTTTATGAACAGAGAGGAAATGAGGCCACAGAAGGGAGTGGACTACTTTTAAACAG
 CACTGGTGACCTAATGAAGAAAAATTTTACATAATTTCTGTAGTCAAGTTCATCAGTCTTGGGCAA
 TCTTCCCAAGGTAGTAGCAAGCCTGCCATCTATCAGTGTTCCTTTTGGTGGTGAAGACCCAAGCAAC
 CTTCTAATCTTAACTTCAAATTCAAAAGCCATTATCAGACCATTACAAAATGACTTTCCTGCAAACAG
 TGGAAATAATACTAAAAATAAAATGATATTCTTGGGAAAGCAAAATAGGGGAAAACCTAGCAACCAAT
 GTATGCAGTCCATCTTTGGGAAACATCTCTAATGTCGATACAAATGGGGAACATTTAGAAAGTTATGAGG
 CTGAGATCTCCACTAGACCATGCCTTGCATTAGCTCCAGATAGCCAGATAATGATCTCAGAGCTGGTCA
 GTTTGGAATTTCTGCCAGAAAGCCATTCACCACTCTGGGTGAGGTGGCTCCAGTATGGGTACCGGATTCT
 CAGGCTCCAAATTCATGAAATGTGAAGCCAGGTTTACATTCACCAAAAGGAGGCATCACTGCAGAGCAT
 GTGGGAAGGTTTTCTGTGCTTCTGCTGTAGCCTGAAATGTAACTGTTATACATGGACAGAAAGGAAGC
 TAGAGTGTGTGAATCTGCCATTCAGTGCTAATGAATGGTAAGTAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG219804 representing NM_007323
 Red=Cloning site Green=Tags(s)

MENYFQAEAYNLDKVLDEFEQNEDETVSSTLLDTKWINKILDPPSHRLSFNPTLASVNESAVSNESQPQLK
 VFSLAHSAPLTTTEEDHCANGQDCNLNPEIATMWIDENAVAEDQLIKRNYSWDDQCSAVEVGEKKCGNLA
 CLPDEKNVLVVAVMHNC DKRTLQNDLQDCNNYNSQSLMDAFSCSLDNENRQTDQF SFSINESTEKMNSE
 KQMDPLNRPKTEGRSVNHL CPTSSDSLAVCSVPSQLKDDGSI GRDPSMSAITSLTVDSVSISSQGTGCPA
 VKKQENYIPDEDLTGKISSPRTDLGSPNSFSHMSEGILMKKEPAEESTTEESLRGLPLLLKPDMPNGSG
 RNND CERCS DCLVPNEVRADENEGYEHEETLGTTEFLNMTTEHFSSESQDMTNWKLTKLNEMNDSQVNEEKE
 KFLQISQPEDTNGDSGGQCVGLADAGLDLKGTCISESEECDFSTVIDTPAANYLSNGCDSYGMQDPGVSF
 VPKTLPSKEDSVTEEKEIEESKSECYSNIYEQRGNEATEGSGLLLNSTGDLMKKNYLHNFCSQVPSVLGQ
 SSPKVVASLPSISVPPFGGARPKQPSNLKLIQPKPLSDHLQNDFPANSGNNTKNKNDILGKAKLGENSATN
 VCSPSLGNISNVDNNGEHELESYEA EISTRPCLALAPDSPDNDLRAGQFGISARKPF TTLGEVAPVWVPS
 QAPNCMKCEARFTFKRRHHCRACGKVF CASCCSLKCKLLYMDRKEARVCVICHSVLMNGKY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

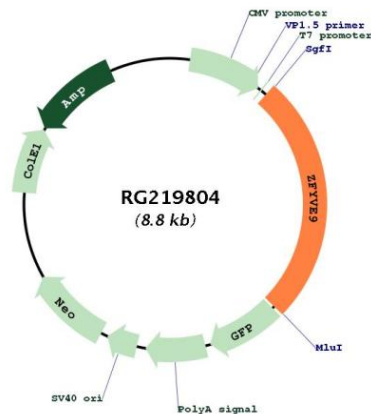
Cytogenetics: 1p32.3

Domains: FYVE

Protein Pathways: TGF-beta signaling pathway

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 RG219804