

Product datasheet for RR215214

Sarnp (NM_001033070) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sarnp (NM_001033070) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Sarnp
Synonyms: Cip29; RGD1305692
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR215214 representing NM_001033070
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGACCGAGACGGTGGAGCTCCACAAGCTGAAGCTTGTCTGAAGCAAGAATGCCTTGCTCGTG
 GTTTAGAGACCAAGGGAATAAAACAAGATCTTATCAATAGGCTCCAGGCATATCTTGAAGAACATGCTGA
 AGAAGAAGCAAAATGAAGAAGATGTACTGGGAGATGAAACTGAGGAAGAAGAACCAAGCCTATAGAAGT
 CCTGTTAAAGAGGAAGAACCTCCTGAAAAAGTTGTTGATATGGCATCAGAAAAGAAGGTGTTAAAAATTA
 CATCTGGAATACCTCAAACCTGAGAGAATGCAGAAGAGGGCTGAACGTTTCAATGTGCCTGTAAGCTTGGA
 GAGTAAGAAGGCTGCTCGGGCAGCGAGGTTTGGAAATTTCTTCAGTTCCAACAAAAGGTTTATCATCTGAC
 ACCAAGCCAATGGTTAACCTGGATAAACTAAAGGAAAGAGCACAGAGATTTGGTTTGAATGTCTCTTCCA
 TCTCTAGAAAGTCTGAGGATGATGAGAAGCTGAAGAAACGGAAGGAGAGATTTGGAATTGTGACAAGTTC
 AGCTGGAAGTGAACACAGAGGATACAGAGGCAAGAAAAGAAAAGAGCAGAGCGTTTTGGGATTGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR215214 representing NM_001033070
 Red=Cloning site Green=Tags(s)

MATETVELHKLKLAELKQECLARGLKIKQDLINRLQAYLEEHAEEEEANEEDVLDGETEEEEPKPIEL
 PVKEEEPPEKVVDMASEKKVVKITSGIPQTERMQKRAERFNVPVLSKKAARAARFGISSVPTKGLSSD
 TKPMVNLDKLKERAQRFLNVSSISRKSEDEKLRKRERFGIVTSSAGTGTTEDEAKKRKRAERFGIA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

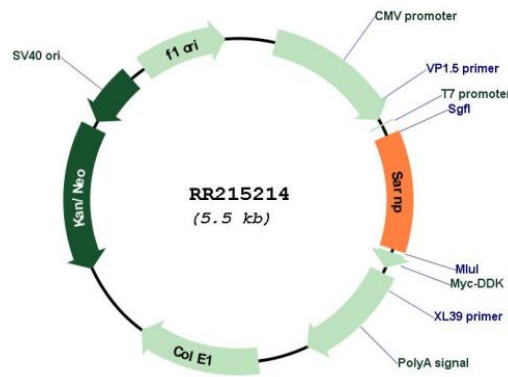


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001033070

ORF Size: 630 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_001033070.1](#), [NP_001028242.1](#)

RefSeq Size: 1244 bp

RefSeq ORF: 633 bp

Locus ID: 362819

UniProt ID: [Q498U4](#)

Cytogenetics: 7q11

MW: 23.6 kDa

Gene Summary: Binds both single-stranded and double-stranded DNA with higher affinity for the single-stranded form. Specifically binds to scaffold/matrix attachment region DNA. Also binds single-stranded RNA. Enhances RNA unwinding activity of DDX39A. May participate in important transcriptional or translational control of cell growth, metabolism and carcinogenesis. Component of the TREX complex which is thought to couple mRNA transcription, processing and nuclear export, and specifically associates with spliced mRNA and not with unspliced pre-mRNA. TREX is recruited to spliced mRNAs by a transcription-independent mechanism, binds to mRNA upstream of the exon-junction complex (EJC) and is recruited in a splicing- and cap-dependent manner to a region near the 5' end of the mRNA where it functions in mRNA export to the cytoplasm via the TAP/NFX1 pathway (By similarity).[UniProtKB/Swiss-Prot Function]