

Product datasheet for RN212853

Arpc1a (NM_031146) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Arpc1a (NM_031146) Rat Untagged Clone
 Tag: Tag Free
 Symbol: Arpc1a
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Fully Sequenced ORF: >RN212853 representing NM_031146
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCCTGCATCAGTTTCTGCTAGAGCCAATCACCTGCCATGCCTGGAACAGGGATCGGACCCAGATCG
 CACTGAGCCCAATAATCATGAAGTGCACATCTACAAGAAGAATGGGAGTCAGTGGACGAAAGCTCACGA
 GCTGAAGGAACATAACGGACACATCACAGGTATTGACTGGGCTCCTAAGAGCGACCGTATTGTCACCTGT
 GGGCGGACCGCAACGCCATGTCTGGAGTCAGAAAGATGGCATCTGGAAGCCGACCCTGGTGATCCTGA
 GGATTAACCGTGCAGCCACTTTCTGGAAGTGGTCTCCACTCGAGAACAAGTTTCTGTGGGGAGTGGAGC
 CCGGCTCATCTGTCTGCTACTTTGAGTCTGAAAATGACTGGTGGTTCAGCAAGCACATTAAGAAGCCG
 ATCCGCTCCACAGTCTCAGCCTGGACTGGCATCCCAACAACGTTTTGCTGGCTGCAGGCTCCTGTGACT
 TCAAATGCAGAGTATTTTCGGCCTACATCAAAGAGGTGGATGAGAAGCCAGCCAGCACGCCTGGGGCAG
 CAAGATGCCTTTTGGTCAGCTGATGTCTGAGTTTGGTGGCAGTGGCACTGGTGGCTGGGTGCACGGGGTC
 AGCTTCTCTGCCAGTGGGAGCCGGCTGGCCTGGGTGAGCCAGCACAGCAGTGTCTGTCGCTGATGCCT
 CAAAAAGTGTGCAGGTTTCAACTCTGAGAACGGAGTTCCTGCCGCTGCTCAGTGTGTCAATTTGTCTCAGA
 GAACAGCGTTGTGGCTGCCGGCCATGACTGCTGCCGATGCTCTTAACTACGATGACCGTGGCTGTTTG
 ACCTTTGTGTCCAAGCTAGAGCTCCCAAACAGAGCATCCAGCGCAACATGTCTGCTATGGAACGCTTCC
 GTAACATGGATAAGAGGGCCACTACCGAGGACCGCAACACAGCCTTGAAACACTGCACCAGAACAGCAT
 CACTCAAGTGTCTATTTATGAAGTGGACAAGCAAGATTGTCGCAATTTTGCCTACTGGCATCGATGGA
 GCCATGACAATCTGGGATTTCAAGACTCTAGAGTCTTCCATCCAGGGTCTCCGGATAAT**GTGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_031146



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Insert Size:	1113 bp
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).
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:	<ol style="list-style-type: none"> 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:	<u>NM_031146.2</u> , <u>NP_112408.1</u>
RefSeq Size:	1627 bp
RefSeq ORF:	1113 bp
Locus ID:	81824
UniProt ID:	<u>Q99PD4</u>
Cytogenetics:	12p11
Gene Summary:	Probably functions as component of the Arp2/3 complex which is involved in regulation of actin polymerization and together with an activating nucleation-promoting factor (NPF) mediates the formation of branched actin networks (By similarity). In addition to its role in the cytoplasmic cytoskeleton, the Arp2/3 complex also promotes actin polymerization in the nucleus, thereby regulating gene transcription and repair of damaged DNA (By similarity). [UniProtKB/Swiss-Prot Function]