

Product datasheet for MR205701

Arpc1a (NM_019767) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arpc1a (NM_019767) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arpc1a
Synonyms:	41kDa; 0610010H08Rik; 1110030K07Rik; AA407347; Sid32; Sid329
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205701 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTCTGCATCAGTTTCTGCTGGAGCCAATCACCTGCCATGCCTGGAACAGGGATCGTACCCAGATCG
CCCTGAGCCCAATAACCATGAGGTGCACATCTATAAGAAGAATGGGAGTCAGTGGACGAAAGCGCACGA
GCTGAAGGAACATAATGGGCATATCACAGGTATTGACTGGGCTCCTAAGAGCGACCGTATTGTCACCTGT
GGGCAGACCGCAACGCCTATGTCTGGAGTCAGAAAGATGGCATCTGGAAGCCCACCTGGTGATCTGA
GGATTAACCGTGCAGCCACTTTTGTGAAGTGGTCCCCTTGAGAACAAGTTTGTGTGGGAGCGGAGC
CCGGCTCATCTGTCTGTTACTTTGAGTCTGAGAATGACTGGTGGGTGAGCAAGCACATTAAGAAGCCG
ATCCGCTCCACAGTCTCAGCTTGGACTGGCATCCCAACAATGTTTTGCTGGCTGCAGGCTCCTGTGACT
TCAAAATGCAGAGTGTCTCTGCCTATATCAAAAGAGGTGGATGAGAAGCCAGCCAGCACGCCTGGGGCAG
CAAGATGCCTTTTGGTCAGCTGATGTCTGAGTTTGGTGGCAGTGGCACCAGCGGCTGGGTGCATGGGGTC
AGTTTCTCTGCCAGTGGGAACCGCCTGGCCTGGGTGAGCCAGCACAGCAGTGTCTGTTGCTGATGCC
CAAAAAGTGTGCAGGTTTCAACTCTGAGAACAGAGTTCCTGCCGCTGCTCAGTGTGTCTTTGTCTCAGA
GAACAGCGTGGTGGTGGCAGCATGCTGCCCCGATGCTCTTAACTACGATGACCGTGGCTGTTTCC
ACCTTTGTGCCAACTGGATGTCCAAAACAGAGCATCCAGCGCAACATGTCTGCTATGGAACGTTTCC
GTAACATGGACAAGAGGGCCACTACTGAGGACCGCAACACAGCCTTGAAACACTGCACCCAGAACAGCAT
CACTCAAGTGTCTATTTATGAAGTGGACAAGCAAGATTGTCGCAATTTTGCCTACTGGCATTGATGGA
GCCATGACAATTTGGATTTCAAGACCCTAGAGTCTTCCATCCAGGGTCTCCGGATAATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205701 protein sequence
Red=Cloning site Green=Tags(s)

MSLHQFLLEPITCHAWNDRDTQIALSPNNHEVHIYKKNQSQWTKAHELKEHNGHITGIDWAPKSDRIVTC
 GADRNAYVWSQKDGWIKPTLVILRINRAATFVKWSPLENKFAVSGSARLISVCYFESENDWWVSKHIKKP
 IRSTVLSLDWHPNNVLLAAGSCDFKCRVFSAYIKEVDEKPASTPWGSKMPFGQLMSEFFGGSGTGGVWHGV
 SFSASGNRLAWVSHDSTVSVADASKSVQVSTLRTEFLPLLVSFVSENSVVAAGHDCCPMLFNYYDRGCL
 TFVSKLDVPKQSIQRNMSAMERFRNMDKRATTEDRNTALETLHQNSITQVSIYEVDKQDCRKFCTTGIDG
 AMTIWDFKTLESSIQGLRIM

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_019767

ORF Size: 1113 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_019767.2](#), [NP_062741.1](#)

RefSeq Size: 1588 bp

RefSeq ORF: 1113 bp

Locus ID: 56443

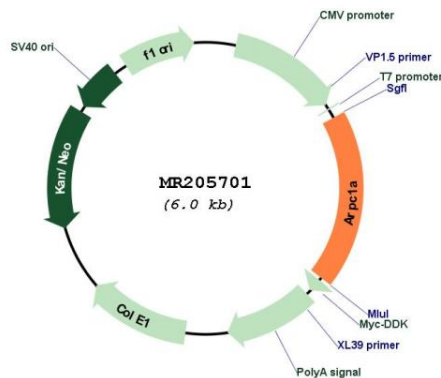
UniProt ID: [Q9R0Q6](#)

Cytogenetics: 5 G2

MW: 41.6 kDa

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]

Product images:



Circular map for MR205701