

Product datasheet for **MC206448**

Arpc1b (BC003441) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Arpc1b (BC003441) Mouse Untagged Clone
Tag: Tag Free
Symbol: Arpc1b
Synonyms: SOP2Hs, p41-ARC, L72, 41kDa
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC003441
 CGGCCGAGGAGACCCGAGGCCAGGAGACAAGTGACTATGGCCTACCACAGCTTCTCGTGGAGCCCATC
 AGCTGCCATGCCGTGGAACAAGGACCGTACTCAGATCGCCATCTGCCCAACAACCATGAGGTGCACATCT
 ATGAGAAGAGCGGTGCCAAGTGGAAACAAGGTGCACGAGCTGAAGGAGCACAAACGGGCAGGTGACAGGCAT
 CGACTGGGCCCTGAGAGTAACCGCATTGTGACCTGCGGCACGGACCGCAATGCCTATGTGTGGACGCTG
 AAGGGCCGACGTGGAAGCCACACTGGTCATCCTCCGGATCAATCGAGCTGCCGCTGTGTGCGCTGGG
 CCCCCAATGAGAACAAGTTCGCCGTGGCAGCGCTCCCGGGTCAATTTCCATCTGTTATTTTGGAGCAGGA
 GAATGACTGGTGGGTGTGCAAACACATCAAAAAGCCCATCCGCTCCACAGTGCTCAGCCTGGACTGGCAT
 CCCAACACGTGCTCCTGGCAGCAGGCTCCTGTGACTTCAAGTGCAGGATCTTCTCTGCATATCAAGG
 AGGTGGAAGAACGCCAGCCCTACACCGTGGGGCTCCAAGATGCCCTTTGGGGAGCTGATGTTTGAATC
 GAGCAGCAGCTGTGGCTGGGTGCATGGGTCTGCTTCTCGCCAGTGGGAGCCGAGTTGCTTGGGTGAGC
 CATGACAGCACTGTATGCCTGGTATGCTGACAAGAAAATGGCCGTGGCAACCCCTGGCCTCTGAGACAT
 TACCACCTCTGGCTGTACCTTTATCACAGAAAATAGTCTAGTGGCAGCGGGCCACGACTGCTTCCCGGT
 GCTGTTTACCTATGACAATGCTGCAAGTGCAGTGCAGTGCAGTTCGGTGGCCGGCTGGATGTACCCAAGCAGAGC
 TCCCAGCGTGGCATGACAGCCCGAGAGCGCTTCCAGAACCTGGACAAGAAGGCCAGCTCTGAGGGGGGTG
 CAGCCACTGGGGCCGGCTGGATTCACTGCACAAGAAGTGTGACGCAAAATCTCGGTGCTCAGCGGGGG
 CAAGGCCAAGTGTCTCACAGTTCTGCACTACAGGCATGGATGGCGGCATGAGCATCTGGGACGTGAAGAGC
 CTGGAGTCAGCCTTGAAGACCTGAAAAACAAATGAGCTGTGCAGACTAGACTGCTGCCCTCATCCCAGC
 TGCTGGGAGGGAGGAAAGGGGGTGGGGAGGCTAAGGGCTGCTTGTGAATGTTCTAGGATGCAGTA
 CACTGCTACAAAAGGAAGAGGCAGGAGGGGAAGTGCCTATTTAACAAAATGTGCCTTTTAAAGAAATACTC
 TTTATTGCAAACCAAAAACAAGGCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: EcoRI-NotI
ACCN: BC003441
Insert Size: 1119 bp



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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:	BC003441 , AAH03441
RefSeq Size:	1383 bp
RefSeq ORF:	1119 bp
Locus ID:	11867
Cytogenetics:	5 G2
Gene Summary:	Component of the Arp2/3 complex, a multiprotein complex that mediates actin polymerization upon stimulation by nucleation-promoting factor (NPF). The Arp2/3 complex mediates the formation of branched actin networks in the cytoplasm, providing the force for cell motility. 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. The Arp2/3 complex promotes homologous recombination (HR) repair in response to DNA damage by promoting nuclear actin polymerization, leading to drive motility of double-strand breaks (DSBs).[UniProtKB/Swiss-Prot Function]