

Product datasheet for **MC205736**

Arpc3 (NM_019824) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Arpc3 (NM_019824) Mouse Untagged Clone
Tag: Tag Free
Symbol: Arpc3
Synonyms: 1110006A04Rik; p21-Ar; p21-ARC; p21Arc
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC013618
 GGCTCGGTCGTCGGAAACGCTTTCTGAGTTCGGCTTCTCTGGATCGAATCCGGACACCGTCAAGATGCCG
 GCATACCACTCTTCTCATGGACCCGGACACCAAGCTCATCGGTAACATGGCCCTGTTGCCCTCCGAA
 GCCAGTTCAAAGGACCCGCCCTCGCGAGACCAAGACACGGACATTGTGGATGAAGCCATCTACTACTT
 CAAGGCCAATGTCTTCTCAAGAACTATGAAATTAAGAATGAAGCGGACAGGACATTGATCTACATCACA
 CTCTACATTTCTGAGTGTCTAAAGAACTCCAAAAGTGCAACTCCAAGAGCCAAGGCGAGAAGGAAATGT
 ACACGCTAGGAATCACCAACTTCCCAATCCCGGAGAGCCTGGCTTCTCTCAACGCCATTTATGCCAA
 GCCTGCGAGCAAACAGGAGGACGAGATGATGCGTGCGTACCTCCAGCAGCTGAGGCAAGAGACCGGACTG
 AGGCTGTGTGAGAAGGTTTTGACCCTCAGAGTGATAAACCAGCAAGTGGTGGACTTGTCTTGTGAAGA
 GACAGTTCATGAACAAGAGTCTTTCGGGGCCTGGGCAGTGAGAGGAGCCTGGGCAGCACCATCACGTGGA
 GACACATCATAGGACACACAGGCCAATGTGTCTGTTTACCTACCGTATCAAGGAGAGAAGAGAGCCTG
 TCTTTGCTGGAAGCTCTTGGTCAAGAATTGGGAGGGTGGTGTGGGCATTTCGATTTTGGCAGTT
 TTAAGCTGGTACTTAATATATAATAAATGTCACTGCTTATGTTAGACATTGAATTAACATTTTGTGAGA
 AAAAGCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_019824

Insert Size: 537 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).



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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: [BC013618](#), [AAH13618](#)

RefSeq Size: 880 bp

RefSeq ORF: 537 bp

Locus ID: 56378

UniProt ID: [Q9JM76](#)

Cytogenetics: 5 F

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]