

Product datasheet for **MC202579**

Arpc5 (NM_026369) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arpc5 (NM_026369) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Arpc5
Synonyms:	5830443F10Rik; p16-Arc
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC060143 sequence for NM_026369
 GCGGAAGAGGGAAGTGTGAGTCGGACCGGGCTGGGCTCGCTAAAGGAGAGGCACCGCGGAGGGGCAGGCCAG
 CGTCGCGTCGCGATCCGGGATGTGCAAGAACACGGTGTGTCGGCCCGCTTCCGGAAGGTGGACGTGGAC
 GAATATGACGAGAACAAGTTCGTGGACGAGGAGGACCGCGCGCATGGCCAGGCCGGGCCGACGAGGGCG
 AGGTGGACTCGTGCTACGGCAAGGAAACATGACAGCTGCTCTCCAGGCTGCTCTGAAAAACCCCTAT
 TAACACAAAGAGCCAGGCAGTGAAGGACCGTGCAGGCAGCATCGTCTTGAAGGTGCTTATCTCTTTTAAA
 GCTAATGATATTGAAAAGCAGTGCAGTCTCTGGACAAGAACGGTGTGGACCTCCTAATGAAGTATATTT
 ATAAAGGCTTTGAGAGCCCATCTGACAACAGCAGTGTGTGTTGCTCCAGTGGCATGAAAAGGCCCTTGC
 TGCTGGAGGAGTGGGTCATTGTTTCGAGTTTTGACTGCAAGGAAAACCGTGTAGTCCAGCTGGAAGTGG
 ACACCGTTCACAGAAGTGGGAGTTGCTGGTATAAAGACCAAAACAACCAATGGCACCGCTGCCCTGTGG
 GTAGCATCTGTTTCTCTCAGCTTTGCCCTTCTGCTTCTTTTTCATATCTGTAAGAAGAAAATTACATA
 TCAGTTTCTTTAATGAAAATTGAAATAATGTGGAGAAAATTTGTCTCAGTGGGATGTTTGACCTTT
 CATAACCATGTCAATAATATGTATCACATTCTGTAATTTATATCAAGTTTGATTGTGCAATTTCTAACT
 CTGTTGCCTGGTTAAGGGTTTTACTTTATTTTTAACCAATACTGAGAGATGTGATCAAAGTTGAGGCCA
 GTTTCCTAACTCATTGCTGGTCCAGGAAGTATCTTTATTTTTAAAAATGAGAGACTGGCAGCTATTAACA
 TTGCAAAACTGGACCACACTTCCCTTATTTAAGCAAAATGTGTTCCAGGCAAGTAGTGGGTGAGCCCT
 ACTACCAGTTTCCAGCCTTCTTTCCGCTTGCTCCAGATGATGCTATAAGTGAAGTGTGCTACTTCCTG
 TTAGCATCCAACCTTTCATGGCCTCTCAATCTCTTTGTGGTGACCCAGGGTCCGGAGCAAGGAGTCTTGCT
 CTATATAAATGTATTTACACAATAAAGCGCCTTTTGGCACAACATCCCATTTCTTCTGGTAATAAG
 GCTGCCTGGGAAACAGTCCCAAGTCCAGAGACAGGCCCTCCAGCAGCCTCTGGATGAAATACTTTTCATCAG
 AAATAAGTAGCTGCCTTAGCCATTACACAAGTGTCTACTGGAACATTTCCCATGATTTCCCGAGGACGT
 CTTCAGTGTCTTTCAGGTAATGGGATCTCAGAAGATTTGGTTCTGATCCAAAGACACAGTCTGTGTTT
 AGTCCAGTGTTTTTAAGAAAGAAAAATGCCACATAGTAAAAGAAAAAAGTGTTTACTCTGTTGGACAAA
 CCAAATTGATTCTCAAAAATGACCGGTGCTTGTAAAAAGTTATTACAAAGTAGTTCCGAAACCAACCAC
 CTGAATGTGCGTGGCCGAGAGGGAATCAGCCTGCTTGTCTTTCCCTAAGATGCCAACTCCAGAGTCACTG
 ACTGAGGTGAGAACCAGCGCAGAACTCTATAAAGTGTGTTTTGATACCTGCTCTTTTGTGTTTGTTC
 TGTTTTGTAAAATTATGATAAATTCAGAAAATAAATGTGAGTGTGAATAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: AscI-NotI

ACCN: NM_026369

Insert Size: 456 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:

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: [BC060143](#), [AAH60143](#)

RefSeq Size: 1843 bp

RefSeq ORF: 456 bp

Locus ID: 67771

UniProt ID: [Q9CPW4](#)

Cytogenetics: 1 G3

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]