

Product datasheet for MC202284

Arpc4 (NM_026552) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Arpc4 (NM_026552) Mouse Untagged Clone
Tag: Tag Free
Symbol: Arpc4
Synonyms: 20kDa; 5330419I20Rik; AI327076; p20-Arc
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC055309 sequence for NM_026552
CGCGATGACTGCCACTCTCCGCCCTACCTTAGTGCCGTGCGGGCCACGCTGCAGGCTGCTCTGCCTG
GAGAACTTCTCCTCCCAGGTCGTGGAACGACACAACAAGCCAGAGTCTCGAAGTCAGGAGTAGCAAAGAAC
TGCTATTACAGCCTGTACCATCAGCAGGAATGAGAAGGAAAAGTTCTTATTGAAGGCTCCATCAACTC
TGTCGGGTGTCAGATTGCTGTGAAGCAGGCCGATGAAATTGAGAAGATTTATGCCATAAATTCATGCGC
TTCATGATGATGCGAGCAGAGAACTTCTTATCCTTCGAAGGAAACCTGTGGAGGATATGACATCAGCT
TTCTCATCACTCAACTCCACACGGAGCAGATGTACAAACACAAGCTGGTGGACTTTGTAATCCACTTCAT
GGAGGAGATCGACAAGGAGATCAGTGAGATGAAGCTGTCGGTCAATGCCCGGCTCGTATCGTAGCTGAG
GAGTTCCTCAAGAATTCTAAAACATCTAGCTGGATCTCGCAGCCTTCCCCTCGGCTCCCTGTGTCTCT
GCGTCTCAAAGGTGTCCTGGAGTCACTCCCCGGAGCAGCGGTGCAGCAGCAGCAGCCGGAAGCTGGGT
GGGTGGCATTGGATGTGGGAGGTGGGTGTGGTGTGCTTGTAGCTGTGCAGAAAGCAGCAGTGGGCT
GCCCCATAGCCACATGTGTCTGCTGCTGGCTAGTTTCTGATGCTCAGTCCCCTGGACCGGGACAGACTTTT
TTTTTAAACGTCTTGAACCTAAACTCTGTGCTTGTAGAAGACTGTAACCTTTTTTGTCTTTTTTTTTT
TTTTTAAACAAACAAAAAACCAACCTCCAGTCCAGTGGCTGTGACTGGCCCCAGTGATTGTACCTTAT
TGGTCGCTGTGGTCTGGGCGGCTGGAGCCAGAAGGCGACTATTTTTCCCGAGCCACCCCGGTGGGA
AAGAGGGAATTCAGACTACAGTTTTTTTCCCTTGTGTCTTACAAGCTCCTTAGGCCTACCTAGTAG
AGAGGCGGTATGGACCTCTACTAGCCTCCTGAGTCTGCCTGAAGATGCCCACTGCACTGGTTGGGAAC
AAGGGCTGAATCTATGATTGCCGGCAGGCCTAGGAGCGGGGCCAGAAGCCAGGCAAACCTCTGGCCG
TAGGGCCACCCGGTGTCCATCTCCCTCCAGCTGAGAGGCCAAGGTTTGCCCGTCTGGGTGCAGGGCC
TGTGCTGCAGGTCCAGAGGTGAGTCTGCTGCTCGGGCTCCTGCTCCCATGCTCGTCTCGGATT
CTGATGAACTCCCCTCCCCCTAATTAAGTCTTCTCCTGCCCTTCGGGCTGCATGAAAAAAAAAAAA
AA

Restriction Sites: RsrII-NotI
ACCN: NM_026552
Insert Size: 507 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:	BC055309 , AAH55309
RefSeq Size:	1439 bp
RefSeq ORF:	507 bp
Locus ID:	68089
UniProt ID:	P59999
Cytogenetics:	6 E3
Gene Summary:	<p>Actin-binding 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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>