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Product datasheet for MC206737

Actr3 (BC080806) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Actr3 (BC080806) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Actr3
Synonyms:	1200003A09Rik; Arp3
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>BC080806
TCGGCAGCGGCGGCCATCTTGGCTCCCCGCGGAAAGCTCCCTCCCTTCCTCCCTCCCTCCGGACCGAGGG
CGGCCCGGGCCGGTGCATGGTCAGCCAGCTCCCATCTCTAGCTCCCCGGCCTCTCAGCAGCACGGAACGG
ACGGCAGCGGCGGGCGAGGAGGAAGATGGCGGGACGGCTGCCGGCCTGTGTGGTGGACTGTGGCACGGGA
TATACAAAACTAGGATATGCTGGAAATACAGAGCCACAGTTTATCATCCCATCATGTATTGCCATTAAAG
AGTCTGCAAAAGTGGGTGACCAAGCCCAGAGGAGGGTGATGAAAGGCGTGGATGACCTAGACTTCTTCAT
TGGTGATGAAGCAATAGAAAAGCCCACATATGCAACAAAGTGGCCAATTCGCCATGGTATAGTTGAAGAC
TGGGACTTAATGGAAAGGTTTATGGAGCAAGTGATTTTTAAATATTTAAGGGCAGAACCTGAAGATCATT
ACTTTCTTTTGACTGAACCTCCACTGAATACTCCAGAAAACAGGGAATATACTGCTGAAATAATGTTTGA
ATCCTTCAATGTTCCAGGCTTGTACATTGCTGTGCAGGCTGTTCTTGCCTTAGCTGCATCCTGGACCTCA
AGACAAGTAGGAGAGCGGACGCTGACGGGTACAGTAATAGACAGTGGAGACGGAGTCACTCATGTCATTC
CTGTGGCTGAAGGATATGTTATCGGCAGCTGTATTAAACACATTCCAATCGCAGGAAGAGATATAACATA
TTTTATTCAGCAACTGCTGCGAGACCGAGAAGTAGGAATCCCTCCTGAGCAGTCCTTGGAAACTGCGAAA
GCAGTGAAGGAACGCTACAGTTATGTCTGCCCAGATTTAGTAAAAGAGTTTAACAAGTATGACACCGATG
GGTCAAAGTGGATCAAACAGTACACCGGAGTCAACGCCATCTCAAAGAAAGAGTTTTCTATTGATGTTGG
CTATGAGCGATTCCTGGGACCCGAGATCTTTTTCCATCCAGAGTTTGCTAATCCAGATTTTACACAACCT
ATCTCAGAAGTTGTAGATGAAGTCATTCAGAATTGCCCCATTGATGTCCGGCGTCCTCTCTACAAGAACA
TTGTCCTCTCTGGTGGTTCAACCATGTTCAGGGACTTTGGACGTCGTTTGCAAAGAGATTTGAAGAGAAC
TGTAGATGCCAGGCTGAAGTTAAGCGAGGAGCTGAGTGGTGGTAGATTGAAGCCCAAGCCTATTGATGTA
CAAGTTATTACACACCATATGCAGCGGTATGCAGTCTGGTTTGGAGGGTCAATGCTGGCTTCCACGCCTG
AGTTCTACCAAGTATGCCACACCAAAAAGGATTATGAAGAAATTGGACCTAGCATTTGTCGTCACAATCC
AGTGTTTGGAGTCATGTCCTAAAGTTGACTTCTTGTTTATTGGGTTAGGGAGATGGAAATGAGATAATCT
TTCTGATGACCTGTTTTTGTCTGAATGGATGGTTCTGAGGTTTTTAACCAAACATGATCATACAGGAATA
TTTAATGAGTGTGTCAACATGCAGATGTAGAAGAGAACCAAGACGATTGTTTTCCTTTAGGTTGAATATT
TGAATCTTATGTGTATCAAAAAAGAAATGGGTTTTAGTTCTTTCTGTGCCCTGATATTTTGTATATTATT
GACTTACCCAGTGTGCTGGGCTCAGTGGGTGTGTAGAGAGCTCTGTAATGCCTGATTGGGCACTGCTGAG
TGGGTAGTGCCTGAGCTTGTTTATATTTCATACTTTTTTATACTTTGAGGAAAAAAAGTCAAAGAAAAAC
TGTAGTATTGGAGGGAAACAATGTGACCAAGGAAAAGATGAGTTCAACAAGCAGCCTCATGGGACTTGGC
GCACACTCTGGGTTCCAGTTATCTCGAGCTGCTCCACCCCTCCCCAGCCCAACGGTTCTCTCTGCAAATG
CTTGGATCTAAGAAGCTAGTCTCCTGGGTTAGCCGATGCCTGCCCTGCTTTCTGGTTACTTACATTCTGT
TTCTTGCTTTAAAAGAAGGACAAGACTGTTGGACCAGTATTGCAATTCTGTAGAGTCGTTTCTTATTAAA
ACAATAATGTGATTACCAAAATTGGCATATTTAAGGCCTAATGCCATTCTAATAAAGGCAAAAAATTTCT
TTTTAAAAAAAAAAAAAAAAAA

Restriction Sites: EcoRI-NotI

ACCN: BC080806

Insert Size: 1257 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:	BC080806, AAH80806
RefSeq Size:	2192 bp
RefSeq ORF:	1257 bp
Locus ID:	74117
Cytogenetics:	1 E2.3
Gene Summary:	ATP-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. Seems to contact the pointed end of the daughter actin filament. 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). Plays a role in ciliogenesis.[UniProtKB/Swiss-Prot Function]