

Product datasheet for **MC201705**

Arpin (NM_027420) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arpin (NM_027420) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Arpin
Synonyms:	2610034B18Rik
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC031379 sequence for NM_027420

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GGGCGCTCGGCGTGGGAAAAATGAGCCGATCTACCAGGATAGCGCCCTCCGCAACAAGGCCGTGCAGAGC
GCGCGCCTGCCGGAACCTGGGACCCCTGCCACCAAGGGGAAATGGCATCTTGCTGGAGGGGGAGC
TCGTGGATGTATCTCGGCACAGCATCTTGATGCCCATGGCAGGAAGGAGCGCTACTATGTGCTGTATAT
CCAGCCCAGCTGTATCCACAGGCGTAAGTTTGACCCCAAGGGAAATGAAATTGAGCCCAACTTCAGTGCC
ACCAGGAAGGTGAACACAGGCTTCCTCATGTCTTACAAGGTGGAGGCCAAGGCGACACAGACCGGC
TCACCCTGGAGGCGCTGAAGAGCCTGGTAAACAAGCCCCAGCTGCTGGAATTGACAGAGAGCCTCACCCC
AGACCAGGCGGTGGCATTCTGGATGCCTGAGTCAGAGATGGAGGTCATGGAACCGAACTGGGGACTGGA
GTGCGATTAATAAACTCGGGGTGATGGTCCCTTCATAGATTCTTAGCCAACTGGAGCTGGGGACAGTGA
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TTCAGAGAGGAACACAGCAGAGATCCGAGAGCAAGGAGACGGGGCAGAGGACGAGGAATGGGATGACTGA
GGTGCCTCCTCAACTAGACCAGCATCTGGGATGGTGTGCTGAGAAAGTGCCACACCAACTCTGCCTTG
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AGATCTATCTCCAGTATTCCTTTCCCTAGGTAGCAGGCATGGACTAGATGAGTCTCCAAGGTACACAA
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TGTGGGCTTTCTGCCTTAGATCTCTGTCTTAGGGCTCTTACTGCTCCAATGAAACCCGACGACCCAAAG
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GAGCAGGAGCTCAAGCAGGGCAGGAACCTGGAGGCAGGAGCAGAGAGCGTGGTGTCTGCAAACTGGCTC
GCTCTGTTTGCTTTTTTTTGAACCCAGGACCACAGCCAGTAATGGCATTACCTAGAATGGGCTGGGC
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AGATGCCATTTTTGGGAAGGCCTTCAGCCTTCCCAGCTGTGTCTAGCCGGTCCACAAGTCTTGACTCATT
CCACTGGGCCAACTTTTTATTTTTTAAATATTTTCTTTTAAATAAATAGTGCTGGTCTTAAAAAAA
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Restriction Sites:	RsrII-NotI
ACCN:	NM_027420
Insert Size:	681 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	BC031379 , AAH31379
RefSeq Size:	1724 bp
RefSeq ORF:	681 bp
Locus ID:	70420
UniProt ID:	Q9D0A3
Cytogenetics:	7 D2
Gene Summary:	Regulates actin polymerization by inhibiting the actin-nucleating activity of the Arp2/3 complex; the function is competitive with nucleation promoting factors. Participates in an incoherent feedforward loop at the lamellipodium tip where it inhibits the ARP2/2 complex in response to Rac signaling and where Rac also stimulates actin polymerization through the WAVE complex. Involved in steering cell migration by controlling its directional persistence (By similarity).[UniProtKB/Swiss-Prot Function]