

Product datasheet for MR202650

Arpin (NM_027420) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arpin (NM_027420) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arpin
Synonyms:	2610034B18Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202650 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC

ATGAGCCGCATCTACCAGGATAGCGCCCTCCGCAACAAGGCCGTGCAGAGCGCGCCTGCCGGAACCTGGGACCCTGCCACCCACCAAGGGGAAATGGCATCTTGTGGAGGGGAGCTCGTGGATGTATCTCGGCA CAGCATCTTGGATGCCCATGGCAGGAAGGAGCGCTACTATGTGCTGTATATCCAGCCAGCTGTATCCAC AGGCGTAAGTTTGACCCCAAGGGAAATGAAATTGAGCCCAACTTCAGTGCCACCAGGAAGGTGAACACAG GCTTCCTCATGTCATCTTACAAGGTGGAGGCCAAGGGCGACACAGACCGGCTCACCTGGAGGCGCTGAA GAGCCTGGTAAACAAGCCCCAGCTGCTGGAATTGACAGAGAGCCTCACCCAGACCAGGCGGTGGCATTCT TGGATGCCTGAGTCAGAGATGGAGGTCATGGAACCTCGAACTGGGGACTGGAGTGGCATTAAAACTCGGG GTGATGGTCCCTTCATAGATTCTTAGCCAAACTGGAGCTGGGGACAGTGACCAAGTGTAATTTTGTGG TGATGGAAAGACGGGAGCTTCTGGACAGACAATATCATGGCCAGAAAGTCTTCAGAGAGGAACACAGCA GAGATCCGAGAGCAAGGAGACGGGGCAGAGGACGAGGAATGGGATGAC

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202650 protein sequence
Red=Cloning site Green=Tags(s)

MSRIYQDSALRNKAVQSARLPGTWDPATHQGGNGILLEGELVDVSRHSILDAHGRKERYVLYIQPSCIH
 RRFKFDPKGNEIEPNFSATRKVNTGFLMSSYKVEAKGDTDRLTLEALKSLVKNPQLLEL TESLTPDQAVAF
 WMPESMEVMELELGTGVRLKTRGDGPFIDSLAKLELGTVTKCNFAGDGKTGASWTDNIMAQKSSERNTA
 EIREQGDGAEDEEWD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_027420

ORF Size: 681 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [NM_027420.4](#)

RefSeq Size: 2184 bp

RefSeq ORF: 681 bp

Locus ID: 70420

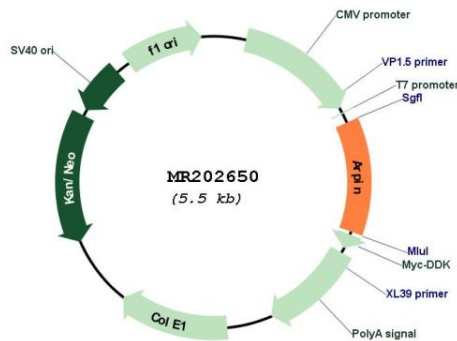
UniProt ID: [Q9D0A3](#)

Cytogenetics: 7 D2

MW: 25.2 kDa

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]

Product images:



Circular map for MR202650