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Product datasheet for MR201380

Arpc4 (NM_001170486) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arpc4 (NM_001170486) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arpc4
Synonyms:	20kDa; 5330419I20Rik; AI327076; p20-Arc
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR201380 representing NM_001170486 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGACTGCCACTCTCCGCCCCTACCTTAGTGCCGTGCGGGCCACGCTGCAGGCTGCTCTCTGCCTGGAGA ACTTCTCCTCCCAGGTCGTGGAACGACACAACAAGCCAGAGGTCGAAGTCAGGAGTAGCAAAGAACTGCT ATTACAGCCTGTCACCATCAGCAGGAATGAGAAGGAAAAGGTTCTTATTGAAGGCTCCATCAACTCTGTC CGGGTCAGCATTGCTGTGAAGCAGGCCGATGAAATTGAGAAGATTTTATGCCATAAATTCATGCGCTTCA TGATGATGCGAGCAGAGAACTTCTTTATCCTTCGAAGGAAACCTGTGGAGGGATATGACATCAGCTTTCT CATCACCAACTTCCACACGGAGCAGATGTACAAACACAAGCTGGTGGACTTTGTAATCCACTTCATGGAG GAGATCGACAAGGAGATCAGTGAGATGAAGCTGTCGGTCAATGCCCGGGCTCGTATCGTAGCTGAGGAGT TCCTCAAGAATTCT ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>MR201380 representing NM_001170486 Red=Cloning site Green=Tags(s) MTATLRPYLSAVRATLQAALCLENFSSQVVERHNKPEVEVRSSKELLLQPVTISRNEKEKVLIEGSINSV RVSIAVKQADEIEKILCHKFMRFMMMRAENFFILRRKPVEGYDISFLITNFHTEQMYKHKLVDFVIHFME EIDKEISEMKLSVNARARIVAEEFLKNS TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	SgfI-MluI

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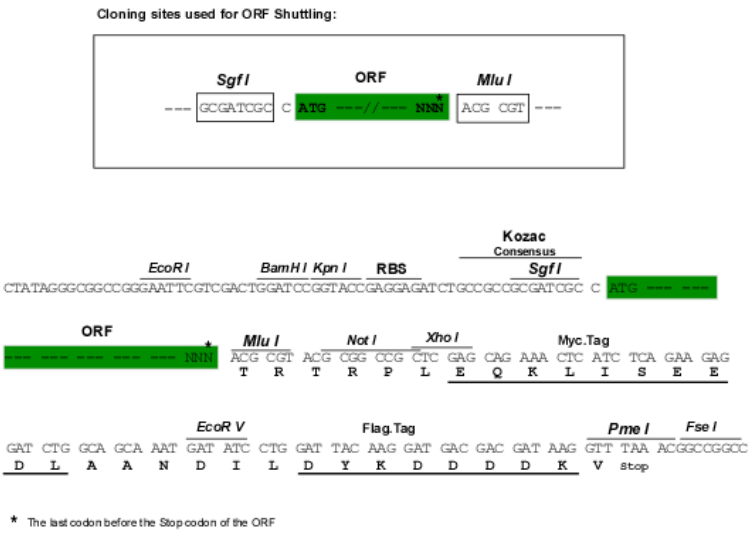
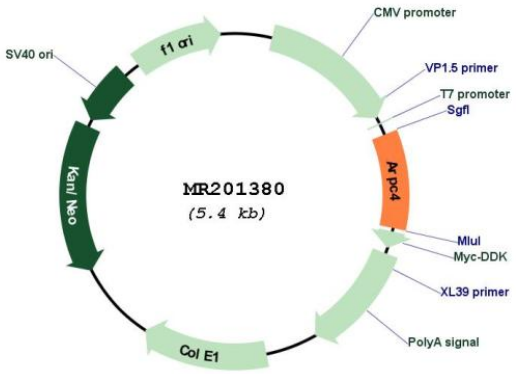
Cloning Scheme:



Plasmid Map:



ACCN: NM_001170486

ORF Size: 504 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 Size:	2152 bp
RefSeq ORF:	237 bp
Locus ID:	68089
UniProt ID:	P59999
Cytogenetics:	6 E3
MW:	10 kDa
Gene Summary:	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]