

Product datasheet for **MR206628**

Actr3b (NM_001004365) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Actr3b (NM_001004365) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Actr3b
Synonyms:	9630005C02; Arp3b; Arp3beta; ARP11; AW047569
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206628 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGGCTCGCTGCCTCCCTGCGTGGTTGACTGCGGCACCGGGTACACCAAGCTTGGCTACGCAGGCA
ACACTGAACCACAGTTCATTATCCCGTCATGTATCGCCATCCGAGAATCTGCAAAGGTAGTTGATCAAGC
CCAAAGGAGGGTGTGAGAGGAGTCGATGACCTTGATTTCTTCATAGGGGATGAAGCCATTGATAAACCT
ACCTACGCTACCAAGTGGCCTATACGACATGGCATCGTTGAAGACTGGGATCTTATGAAAGGTTTCATGG
AACAGTGGTCTTTAAGTATCTTCGTGCTGAACCTGAGGACCACTACTTTTTAATGACAGAACCTCCACT
GAACACACCAGAAAACAGAGAGTACCTTGAGAAATCATGTTTGAATCATTTAATGTACCAGGACTCTAC
ATTGACGTACAGGCAGTGTGGCTCTGGCAGCCTCTTGGACATCCCGGCAAGTTGGTGAACGCACACTAA
CGGGGATAGTTATAGACAGTGGAGACGGTGTCAACCATGTTATCCCGGTGGCAGAAGGTTATGTAATTGG
AAGCTGCATCAAACACATCCCAATTGCAGGTAGAGATAATTACGTATTTCAACAGCTGCTAAGGGAG
AGGGAGGTGGGAATCCCTCCTGAGCAGTCACTGGAAACCGCAAAAGCCATCAAGGAGAAGTACTGCTACA
TTTGCCCGGATATTGTCAGAGAATTTGCTAAGTATGACGTAGATCCTCGGAAGTGGATCAAACAGTACAC
AGGGATCAATGCCATCAACCAGAAGAAGTTCATTATAGATGTTGGTTATGAAAGGTTCTCGGACCAAGAA
ATATTTTACCCTGAGTTTGCCAACCCAGACTTTATGGAGTCCATCTCGGATGTTGTCGATGAAGTCA
TACAGAGCTGTCCATAGATGTGCGCCGCGCTGTATAAGAACGTCGTTCTTTCTGGAGGCTCCACAAT
GTTCAGAGATTTGGACGTCGTCTGCAGAGAGATTTGAAAAGAGTGGTGGACGCCAGGTTAAAGCTGAGC
CAAGAGCTCAGTGGAGGCAGGATAAAGCCTAAACCTGTGGAGGTGCAGGTGGTACGCACCACATGCAGC
GCTATGCCGTGTGGTTGGAGGCTCGATGCTAGCCTCAACTCCGGAGTCTTTTCAGGTCTGTACACCAA
GAAGGACTATGAGGAATACGGCCCAAGCATCTGCCGCCACAACCTGTCTTCGGAGTCATGTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206628 protein sequence
Red=Cloning site Green=Tags(s)

MAGSLPPCVVDCGTGYTKLGYAGNTEPQFIIPSCIAIRESAKVVDQAQRRVLRGVDDLDFFIGDEAIDKP
 TYATKWPIRHGI VEDWDLMERFMEQVVFVKYLAEPEDHYFLMTEPPLNTPENREYLAEIMFESFNVPGLY
 IAVQAVLALAASWTSRQVGERTLTGIVIDSGDGVTHVIPVAEGYVIGSCIKHIPIAGRDIITYFIQQLRE
 REVGIPPEQSLETAKAIKEKYCYICPDI VREFAKYDVPDKWKIKQYTGINAINQKFFIIDVGYERFLGPE
 IFFHPEFANPDFMESISDVVDEVIQSCPIDVRRPLYKKNVLSGGSTMFDRDFGRRLQRDLKRVVDARLKLS
 QELSGGRIPKPKPEVQVVTHMQRYAVWFGGSMFASTPEFFQVCHTKKDYEEYGPSICRHNPFVFGVMS

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_001004365

ORF Size: 1257 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_001004365.2](#), [NP_001004365.1](#)

RefSeq Size: 1734 bp

RefSeq ORF: 1257 bp

Locus ID: 242894

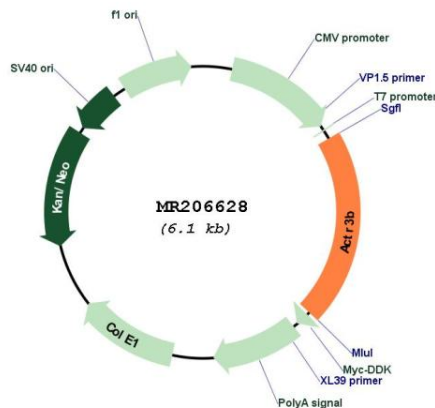
UniProt ID: [Q641P0](#)

Cytogenetics: 5 B1

MW: 47.6 kDa

Gene Summary: Plays a role in the organization of the actin cytoskeleton. May function as ATP-binding component of the Arp2/3 complex which is involved in regulation of actin polymerization and together with an activating nucleation-promoting factor (NPF) mediates the formation of branched actin networks. May decrease the metastatic potential of tumors (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206628