

Product datasheet for RC203790

ACTR3B (NM_001040135) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACTR3B (NM_001040135) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ACTR3B
Synonyms:	ARP3BETA; ARP11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203790 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGGCTCCCTGCCTCCCTGCGTGGTGGACTGTGGCACCGGGTATACCAAGCTTGGCTACGCAGGCA
ACACTGAGCCCCAGTTCATTATTCCTTCATGTATTGCCATCAGAGAGTCAGCAAAGGTAGTTGACCAAGC
TCAAAGGAGAGTGTGAGGGGAGTTGATGACCTTGACTTTTTTCATAGGAGATGAAGCCATCGATAAACCT
ACATATGCTACAAAGTGGCCGATACGACATGGAATCATTGAAGACTGGGATCTTATGAAAGGTTTCATGG
AGCAAGTGGTTTTAAATATCTTCGAGCTGAACCTGAGGACCATTATTTTTTAATGACAGAACCTCCACT
CAATACACCAGAAAACAGAGAGTATCTTCAGAAAATTATGTTGAATCATTTAACGTACCAGGACTCTAC
ATTGCAGTTCAGGCAGTCTGGCCTTGGCGGCATCTTGGACATCTCGACAAGTGGTGAACGTACGTTAA
CGGGGATAGTCATTGACAGCGGAGATGGAGTCACCCATGTTATCCAGTGGCAGAAGGTTATGTAATTGG
AAGCTGCATCAAACACATCCCGATTGCAGGTAGAGATAATTACGTATTTCAACAGCTGCTAAGGGAG
AGGGAGGTGGGAATCCCTCCTGAGCAGTCACTGGAGACCGCAAAGCCATTAAGGAGAAACTGTTTACA
TTTGCCCCGATATAGTCAAGGAATTTGCCAAGTATGATGTGGATCCCCGGAAGTGGATCAAACAGTACAC
GGGTATCAATGCGATCAACCAGAAGAAGTTTGTATAGACGTTGGTTACGAAAGATTCTGGGACCTGAA
ATATTTTCCACCCGAGTTTGCCAACCCAGACTTTATGGAGTCCATCTCAGATGTTGTTGATGAAGTAA
TACAGAACTGCCCATCGATGTGCGGCCCGCTGTATAAGCCGAGTTCTTTCAGTCTGCCACACCAA
GAAGGACTATGAAGAGTACGGGCCAGCATCTGCCCCACAACCCGCTTTGGAGTCATGTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203790 protein sequence
Red=Cloning site Green=Tags(s)

MAGSLPPCVVDCGTGYTKLGYAGNTEPQFIIPSCIAIRESAKVVDQAQRRVLRGVDDLDFFIGDEAIDKP
 TYATKWPIRHGI IEDWDLMERFMEQVVKYLRAEPEDHYFLMTEPPLNTPENREYLAEIMFESFNVPGLY
 IAVQAVLALAASWTSRQVGERTLTGIVIDSGDGVTHVIPVAEGYVIGSCIKHIPIAGRDIITYFIQQLLRE
 REVGIPPEQSLETAKAIKEKYCYICPDIVKEFAKYDVPDKWIKQYTGINAINQKFFVIDVGYERFLGPE
 IFFHPEFANPDFMESISDVVDEVIQNCPIDVRRPLYKPEFFQVCHTKKDYEEYGPSICRHNPFVFGVMS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6538_e11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001040135

ORF Size: 1044 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_001040135.2](#)

RefSeq Size: 2013 bp

RefSeq ORF: 1047 bp

Locus ID: 57180

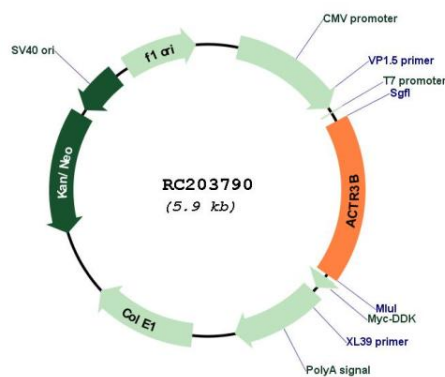
UniProt ID: [Q9P1U1](#)

Cytogenetics: 7q36.1-q36.2

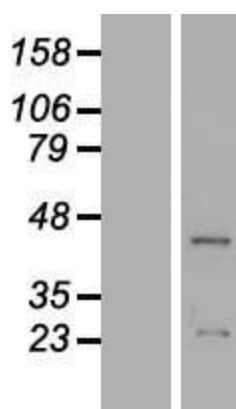
MW: 39.7 kDa

Gene Summary: This gene encodes a member of the actin-related proteins (ARP), which form multiprotein complexes and share 35-55% amino acid identity with conventional actin. The protein encoded by this gene may have a regulatory role in the actin cytoskeleton and induce cell-shape change and motility. Pseudogenes of this gene are located on chromosomes 2, 4, 10, 16, 22 and Y. Alternative splicing results in multiple transcript variants and protein isoforms. [provided by RefSeq, Jul 2012]

Product images:



Circular map for RC203790



Western blot validation of overexpression lysate (Cat# [LY421689]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203790 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).