

## Product datasheet for **RC205358**

### **BAF53b (ACTL6B) (NM\_016188) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BAF53b (ACTL6B) (NM_016188) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BAF53b
Synonyms:	ACTL6; arpNalpha; BAF53B; DEE76; EIEE76; IDDSSAD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC205358 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGCGGGGCGTCTACGGCGGAGATGAGGTGGGGCGTGGTCTTTGACATTGGCTCCTTCTCAGTCC  
 GCGCTGGGTACGCTGGGGAGGACTGTCCCAAGGCTGACTTCCCCACCACAGTGGGGCTGCTGGCCGCGGA  
 GGAGGGGGGGCGGCTGGAGCTGGAGGGGACAAAGAGAAGAAAGGGAAGATCTTCCACATCGACACCAAT  
 GCCCTGCACGTGCCTCGGGATGGAGCGGAGGTCATGTCGCCCTCAAGAAATGGCATGATCGAGGACTGGG  
 AGTGCTCCGAGCCATCCTGGATCACACCTACAGCAAACAGTCAAGTCTGAGCCAAACCTGCACCCAGT  
 GCTCATGTCCGAGGCTCCGTGGAACACACGGGCCAAGCGGGAGAAGCTGACAGAGCTGATGTTGAGCAG  
 TACAACATTCTGCCTTCTTCTATGCAAGACGGCTGTGCTACCCGCTTTGCAAACGGGCGGTCCACTG  
 GCCTCGTGTGGACAGTGGAGCCACCCACACCAGGCCATTCCAGTACATGACGGCTACGTTCTGCAGCA  
 AGGCATCGTCAAGTCCCCTCTGGCAGGGGACTTCATCTCCATGCAGTGCCGGGAGCTGTTCCAGGAGATG  
 GCCATTGACATCATCCCACCTTACATGATCGCAGCCAAGGAGCCTGTCCGGGAGGGTGCCCCCAAAC  
 GGAAGAAGAAGGAGAAGCTACCCAGGTCTCAAGTCTGGCATAACTACATGTGTAATGAGGTGATCCA  
 GGACTTCCAGGCCTCCGTGCTGCAGGTCTCAGACTCCCCCTACGATGAACAGGTGGCTGCACAAATGCC  
 ACAGTGCACACTACGAGATGCCAATGGCTACAATACAGACTACGGCGCCGAGCGACTCCGCATCCCTGAGG  
 GCCTGTTTGATCCCTCGAACGTCAAGGGCTGTGCGGGAACACCATGTTGGGTGTGGCCACGTGGTGAC  
 CACCAGCATCGGCATGTGTGACATTGATATTCGCCCGGCCTGTACGGGAGTGTATTGTACCCGGCGG  
 AACACACTGCTGCAGGGCTTCACTGACAGGCTCAATCGAGAGCTTCCCAGAAGACCCACCGAGCATGC  
 GACTGAAACTCATTGCCAGCAACAGCACCATGGAGCGCAAGTTCAGCCCTGGATCGGGGTTCCATCCT  
 GGCTCACTGGGCACTTCCAGCAGATGTGGATCTCCAAGCAGGAATATGAGGAGGGCGGGAAGCAGTGC  
 GTGGAGCGAAAGTGCCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC205358 protein sequence  
 Red=Cloning site Green=Tags(s)

MSGGVYGGDEVGALVFDIGSFSVRAGYAGEDCPKADFPTTVGLLAAEEGGGLELEGDKKKGKIFHIDTN  
 ALHVPRDGAEVMSPLKNGMIEDWECFRAILDHTYSKHVKSEPNLHPVLMSEAPWNTRAKREKLTLMFEQ  
 YNIPAFFLCKTAVLTAFANGRSTGLVLDGATHHTAIPVHDGYVLQGGIVKSPLAGDFISMQCRELFQEM  
 AIDIIPPYMIAAKEPVREGAPPNWKKEKLPQVSKSWHNYMCNEVIQDFQASVLQVSDSPYDEQVAAQMP  
 TVHYEMPNGYNTDYGAERLRIPEGLFDPNSVKGLSGNTMLGVGHVVTTSIGMCDIDIRPGLYGSVIVTGG  
 NTLLQGF TDRLNREL SQKTPPSMRLKLIASNSTMERKFS PWIGGSILASLGTFFQQMWISKQEYEEGGKQC  
 VERKCP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6196\\_f03.zip](https://cdn.origene.com/chromatograms/mk6196_f03.zip)

**Restriction Sites:**

Sgfl-Mlul



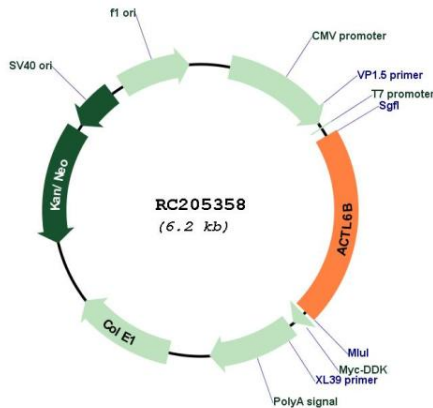
**Domains:** ACTIN

**Protein Families:** Druggable Genome

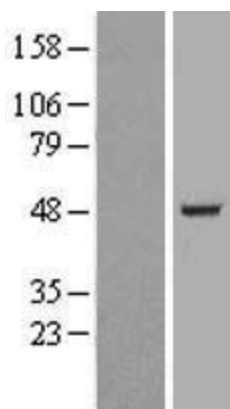
**MW:** 46.9 kDa

**Gene Summary:** The protein encoded by this gene is a member of a family of actin-related proteins (ARPs) which share significant amino acid sequence identity to conventional actins. Both actins and ARPs have an actin fold, which is an ATP-binding cleft, as a common feature. The ARPs are involved in diverse cellular processes, including vesicular transport, spindle orientation, nuclear migration and chromatin remodeling. This gene encodes a subunit of the BAF (BRG1/brm-associated factor) complex in mammals, which is functionally related to SWI/SNF complex in *S. cerevisiae* and *Drosophila*; the latter is thought to facilitate transcriptional activation of specific genes by antagonizing chromatin-mediated transcriptional repression. This subunit may be involved in the regulation of genes by structural modulation of their chromatin, specifically in the brain. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]

**Product images:**



Circular map for RC205358



Western blot validation of overexpression lysate (Cat# [LY402516]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205358 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).