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Product datasheet for RG205358

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:	TurboGFP
Symbol:	BAF53b
Synonyms:	ACTL6; arpNalpha; BAF53B; DEE76; EIEE76; IDDSSAD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG205358 representing NM_016188
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCGGGGGCGTCTACGGCGGAGATGAGGTGGGGGCGCTGGTCTTTGACATTGGCTCCTTCTCAGTCC
GCGCTGGGTACGCTGGGGAGGACTGTCCCAAGGCTGACTTCCCCACCACAGTGGGGCTGCTGGCCGCGGA
GGAGGGGGGCGGGCTGGAGCTGGAGGGGGACAAAGAGAAGAAAGGGAAGATCTTCCACATCGACACCAAT
GCCCTGCACGTGCCTCGGGATGGAGCGGAGGTCATGTCGCCCCTCAAGAATGGCATGATCGAGGACTGGG
AGTGCTTCCGAGCCATCCTGGATCACACCTACAGCAAACACGTCAAGTCTGAGCCAAACCTGCACCCAGT
GCTCATGTCCGAGGCTCCGTGGAACACACGGGCCAAGCGGGAGAAGCTGACAGAGCTGATGTTCGAGCAG
TACAACATTCCTGCCTTCTTCTTATGCAAGACGGCTGTGCTCACCGCCTTTGCAAACGGGCGGTCCACTG
GCCTCGTGCTGGACAGTGGAGCCACCCACACCACGGCCATTCCAGTACATGACGGCTACGTTCTGCAGCA
AGGCATCGTCAAGTCCCCTCTGGCAGGGGACTTCATCTCCATGCAGTGCCGGGAGCTGTTCCAGGAGATG
GCCATTGACATCATCCCACCTTACATGATCGCAGCCAAGGAGCCTGTCCGGGAGGGTGCCCCCCCAAACT
GGAAGAAGAAGGAGAAGCTACCCCAGGTCTCCAAGTCCTGGCATAACTACATGTGTAATGAGGTGATCCA
GGACTTCCAGGCCTCCGTGCTGCAGGTCTCAGACTCCCCCTACGATGAACAGGTGGCTGCACAAATGCCC
ACAGTGCACTACGAGATGCCCAATGGCTACAATACAGACTACGGCGCCGAGCGACTCCGCATCCCTGAGG
GCCTGTTTGATCCCTCGAACGTCAAGGGCCTGTCGGGGAACACCATGTTGGGTGTGGGCCACGTGGTGAC
CACCAGCATCGGCATGTGTGACATTGATATTCGCCCGGGCCTGTACGGGAGTGTCATTGTCACCGGCGGG
AACACACTGCTGCAGGGCTTCACTGACAGGCTCAATCGAGAGCTTTCCCAGAAGACCCCACCGAGCATGC
GACTGAAACTCATTGCCAGCAACAGCACCATGGAGCGCAAGTTCAGCCCCTGGATCGGGGGTTCCATCCT
GGCCTCACTGGGCACTTTCCAGCAGATGTGGATCTCCAAGCAGGAATATGAGGAGGGCGGGAAGCAGTGC
GTGGAGCGAAAGTGCCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

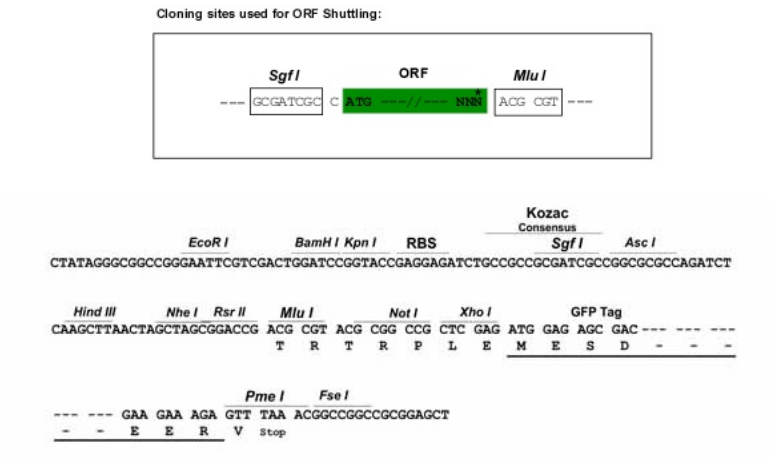
>RG205358 representing NM_016188
Red=Cloning site Green=Tags(s)

MSGGVYGGDEVGALVFDIGSFSVRAGYAGEDCPKADFPTTVGLLAAEEGGGLELEGDKEKKGKIFHIDTN
ALHVPRDGAEVMSPLKNGMIEDWECFRAILDHTYSKHVKSEPNLHPVLMSEAPWNTRAKREKLTELMFEQ
YNIPAFFLCKTAVLTAFANGRSTGLVLDSGATHTTAIPVHDGYVLQQGIVKSPLAGDFISMQCRELFQEM
AIDIIPPYMIAAKEPVREGAPPNWKKKEKLPQVSKSWHNYMCNEVIQDFQASVLQVSDSPYDEQVAAQMP
TVHYEMPNGYNTDYGAERLRIPEGLFDPSNVKGLSGNTMLGVGHVVTTSIGMCDIDIRPGLYGSVIVTGG
NTLLQGFTDRLNRELSQKTPPSMRLKLIASNSTMERKFSPWIGGSILASLGTFQQMWISKQEYEEGGKQC
VERKCP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016188

ORF Size: 1278 bp

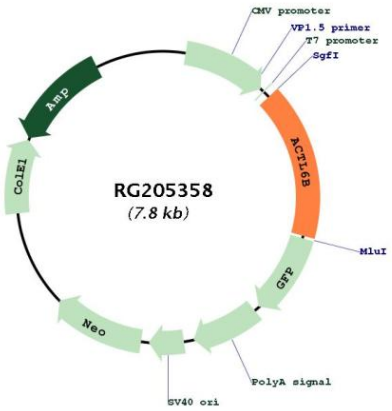
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_016188.5
RefSeq Size:	1495 bp
RefSeq ORF:	1281 bp
Locus ID:	51412
UniProt ID:	O94805
Cytogenetics:	7q22.1
Domains:	ACTIN
Protein Families:	Druggable Genome
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 RG205358