

## Product datasheet for SC114415

### BAF53b (ACTL6B) (NM\_016188) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | BAF53b (ACTL6B) (NM_016188) Human Untagged Clone  |
| Tag:                      | Tag Free  |
| Symbol:                   | BAF53b  |
| Synonyms:                 | ACTL6; arpNalpha; BAF53B; DEE76; EIEE76; IDDSSAD  |
| Mammalian Cell Selection: | None  |
| Vector:                   | <u>pCMV6-XL4</u>  |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| Fully Sequenced ORF:      | >OriGene ORF within SC114415 sequence for NM_016188 edited (data generated by NextGen Sequencing) |

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ATGAGCGGGGCGTCTACGGCGGAGATGAGGTGGGGCGCTGGTCTTTGACATTGGCTCC
TTCTCAGTCCGCGCTGGGTACGCTGGGGAGGACTGTCCCAAGGCTGACTTCCCCACCACA
GTGGGGCTGCTGGCCGCGGAGGAGGGGGCGGGCTGGAGCTGGAGGGGGACAAAGAGAAG
AAAGGGAAGATCTTCCACATCGACACCAATGCCCTGCACGTGCCTCGGGATGGAGCGGAG
GTCATGTCGCCCCCAAGAATGGCATGATCGAGGACTGGGAGTGTTCGAGCCATCCTG
GATCACACCTACAGCAAACACGTCAAGTCTGAGCCAACTGCACCCAGTGTCTATGTCC
GAGGCTCCGTGGAACACACGGGCCAAGCGGGAGAAGCTGACAGAGCTGATGTTGAGCAG
TACAACATTCTGCCTTCTTCTTATGCAAGACGGCTGTGCTCACCGCCTTTGCAAACGGG
CGGTCCACTGGCCTCGTGTGGACAGTGGAGCCACCCACACCACGCCATTCCAGTACAT
GACGGCTACGTTCTGCAGCAAGGCATCGTCAAGTCCCCTCTGGCAGGGGACTTCATCTCC
ATGCAAGTCCCGGAGCTGTTCCAGGAGATGGCCATTGACATCATCCACCTTACATGATC
GCAGCCAAGGAGCCTGTCCGGGAGGGTGCCCCCAAACTGGAAGAAGAAGGAGAAGCTA
CCCCAGGTCTCCAAGTCTGGCATAACTACATGTGTAATGAGGTGATCCAGGACTTCCAG
GCCTCCGTGCTGCAGGTCTCAGACTCCCCCTACGATGAACAGGTGGTGCACAAATGCC
ACAGTGCACACTACGAGATGCCAATGGCTACAATACAGACTACGGCGCCGAGCGACTCCG
ATCCCTGAGGGCCTGTTTGATCCCTCGAACGTCAAGGGCCTGTGGGGAACACCATGTTG
GGTGTGGGCCACGTGGTGACCACCAGCATCGGCATGTGTGACATTGATATTCGCCGGGC
CTGTACGGGAGTGTCAATTGTCAACGGCGGGAACACTGCTGCAGGGCTTCACTGACAGG
CTCAATCGAGAGCTTTCCAGAAGACCCACCCAGCATGCGACTGAAACTCATTGCCAGC
AACAGCACCATGGAGCGCAAGTTCAGCCCTGGATCGGGGTTCCATCCTGGCCTCACTG
GGCACTTTCCAGCAGATGTGGATCTCCAAGCAGGAATATGAGGAGGGCGGGAAGCAGTGC
GTGGAGCGAAAGTGCCCCTGA

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Clone variation with respect to NM\_016188.4



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|                                     |  |
|-------------------------------------|--|
| <b>5' Read Nucleotide Sequence:</b> | >OriGene 5' read for NM_016188 unedited<br>TGAATACGACTCACTATATGGCGGCCGATAACTTCGTATAGCATACATTATACGAAGTT<br>ATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGGAGTCCCGCCCCGCCA<br>GGGATCCCGGGAGCTGTCCGGCCGCTCGGTGCTGATCCCGCCACCGCCACGGGCCGCT<br>AGCAGCGCAGCGGGCACTATGAGCGGGGGCGTCTACGGCGGAGATGAGGTGGGGGCGTG<br>GTCTTTGACATTGGCTCCTTCTCAGTCCGCGTGGGTACGCTGGGAGGACTGTCCCAAG<br>GCTGACTTCCCCACCACAGTGGGGCTGTGGCCGCGAGGAGGGGGCGGGCTGGAGCTG<br>GAGGGGGACAAAGAGAAGAAAGGAAGATCTTCCACATCGACACCAATGCCCTGCACGTG<br>CCTCGGGATGGAGCGGAGGTCATGTCGCCCTCAAGAATGGCATGATCGAGGACTGGGAG<br>TGCTTCCGAGCCATCCTGGATCACACCTACAGCAAACACGTCAAGTCTGAGCCAAACCTG<br>CACCCAGTGCTCATGTCCGAGGCTCCGTGGAACACACGGGCCAAGCGGGAGAAGCTGACA<br>GAGCTGATGTTTCGAGCAGTACAACATTCCTGCCTTCTTCTATGCAAGACGGCTGTGCTC<br>ACCGCCTTTGCANACGGGCGGTCCACTGGCCTCGTGTGACAGTGGAGCCACCCACACC<br>ACGGGCCATTGACATGACGGCTACGTTCTGAGCAGGGCATCGTCAAGTCCCTCTG |
| <b>Restriction Sites:</b>           | Please inquire   |
| <b>ACCN:</b>                        | NM_016188  |
| <b>Insert Size:</b>                 | 1700 bp  |
| <b>OTI Disclaimer:</b>              | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).   |
| <b>Components:</b>                  | 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).   |
| <b>Reconstitution Method:</b>       | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>  |
| <b>RefSeq:</b>                      | <a href="#">NM_016188.3</a> , <a href="#">NP_057272.1</a>  |
| <b>RefSeq Size:</b>                 | 1495 bp  |
| <b>RefSeq ORF:</b>                  | 1281 bp  |
| <b>Locus ID:</b>                    | 51412  |
| <b>UniProt ID:</b>                  | <a href="#">O94805</a>   |
| <b>Cytogenetics:</b>                | 7q22.1   |
| <b>Domains:</b>                     | ACTIN  |
| <b>Protein Families:</b>            | 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]

Transcript Variant: This variant (1) encodes the functional protein.