

# Recombinant Full Length Human ACTL6A Protein, GST-tagged

**Cat. No.** ACTL6A-844HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Product Overview</b> | Human ACTL6A full-length ORF ( AAH00949, 1 a.a. - 387 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | 387 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | <p>This gene encodes a family member 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 53 kDa subunit protein of the BAF (BRG1/brm-associated factor) complex in mammals, which is functionally related to SWI/SNF complex in <i>S. cerevisiae</i> and <i>Drosophila</i>; the latter is thought to facilitate transcriptional activation of specific genes by antagonizing chromatin-mediated transcriptional repression. Together with beta-actin, it is required for maximal ATPase activity of BRG1, and for the association of the BAF complex with chromatin/matrix. Three transcript variants that encode two different protein isoforms have been described. [provided by RefSeq, Jul 2008]</p> |
| <b>Molecular Mass</b>   | 68.31 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>AA Sequence</b>      | MVVERDDGST LMEIDGDKGK QGGPTYIIDT NALRVPRENM EAISPLKNGM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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VEDWDSFQAI LDHTYKMHVK SEASLHPVLM SEAPWNTRAK REKLTLMFE  
 HYNIPAFFLC KTAVLTAFAN GRSTGLILDS GATHTTAIPV HDGYVLQGGI  
 VKSPLAGDFI TMQCRELFQE MNIELVPPYM IASKEAVREG SPANWKRKEK  
 LPQVTRSWHN YMCNCVIQDF QASVLQVSDS TYDEQVAAQM PTVHYEFPNG  
 YNCDFGAERL KIPEGLFDPS NVKGLSGNTM LGVSHVVTTS VGMCDIDIRP  
 GLYGSVIVAG GNTLIQSFTD RLNRELSQKT PPSMRLKLI NNTTVERRF  
 SWIGGSILAS LGTFQQMWIS KQEYEEGGKQ CVERKCP

**Applications**

Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**

[ACTL6A actin-like 6A \[ Homo sapiens \]](#)

**Official Symbol**

[ACTL6A](#)

**Synonyms**

ACTL6A; actin-like 6A; actin-like protein 6A; actin related protein 4; Actl6; Arp4; BAF complex 53 kDa subunit; BAF53A; Baf53a; BRG1 associated factor; INO80 complex subunit K; INO80K; BAF53; arpNbeta; hArpN beta; actin-related protein 4; BRG1-associated factor 53A; actin-related protein Baf53a; 53 kDa BRG1-associated factor A; ACTL6; ARPN-BETA

**Gene ID**

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|                |           |
|----------------|-----------|
| mRNA Refseq    | NM_004301 |
| Protein Refseq | NP_004292 |
| MIM            | 604958    |
| UniProt ID     | O96019    |

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