

# Recombinant Full Length Human ATF6B Protein, GST-tagged

**Cat. No.** ATF6B-1520HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full-length Human ATF6B(1 a.a. - 318 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | 318 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | <p>The protein encoded by this gene is a transcription factor in the unfolded protein response (UPR) pathway during ER stress. Either as a homodimer or as a heterodimer with ATF6-alpha, the encoded protein binds to the ER stress response element, interacting with nuclear transcription factor Y to activate UPR target genes. The protein is normally found in the membrane of the endoplasmic reticulum; however, under ER stress, the N-terminal cytoplasmic domain is cleaved from the rest of the protein and translocates to the nucleus. Two transcript variants encoding different isoforms have been found for this gene.</p> |
| <b>Molecular Mass</b>   | 60.61 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>      | MAELMLLSEI ADPTRFFTDN LLSPEDWGLQ NSTLYSGLDE VAEEQTQLFR<br>CPEQDVFPDG SSLDVGMDVS PSEPPWELLP IFPDLQVKSE PSSPCSSSSL<br>SSESSLSTE PSSEALGVGE VLHVKTESLA PPLCLLGDDP TSSFETVQIN<br>VIPTSDDSSD VQTKIEPVSP CSSVNSEASL LSADSSSQAF IGEEVLEVKT<br>ESLSPSGCLL WDVPAAPSLGA VQISMGPSLD GSSGKALPTR KPPLQPKPVV                                                                                                                                                                                                                                                                                                                                               |

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LTTVPMPSTRA VSPSTTVLLQ SLVQPPPGTE EGEKGRAWWL TPVIPALWEA  
EAGESPEVRS LRPAPWPTW

**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**

ATF6B activating transcription factor 6 beta [ Homo sapiens ]

**Official Symbol**

ATF6B

**Synonyms**

ATF6B; activating transcription factor 6 beta; cAMP responsive element binding protein like 1 , CREBL1; cyclic AMP-dependent transcription factor ATF-6 beta; G13; ATF6-beta; protein G13; Creb-related protein; cAMP responsive element binding protein-like 1; cAMP-dependent transcription factor ATF-6 beta; cAMP-responsive element-binding protein-like 1; cAMP response element-binding protein-related protein; CREBL1; CREB-RP; FLJ10066

**Gene ID**

1388

**mRNA Refseq**

NM\_001136153

**Protein Refseq**

NP\_001129625

**MIM**

600984

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UniProt ID

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