

# Recombinant Full Length Human ATF4 Protein, GST-tagged

**Cat. No.** ATF4-1074HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human ATF4 full-length ORF ( AAH08090, 1 a.a. - 351 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>	351 amino acids
<b>Description</b>	<p>This gene encodes a transcription factor that was originally identified as a widely expressed mammalian DNA binding protein that could bind a tax-responsive enhancer element in the LTR of HTLV-1. The encoded protein was also isolated and characterized as the cAMP-response element binding protein 2 (CREB-2). The protein encoded by this gene belongs to a family of DNA-binding proteins that includes the AP-1 family of transcription factors, cAMP-response element binding proteins (CREBs) and CREB-like proteins. These transcription factors share a leucine zipper region that is involved in protein-protein interactions, located C-terminal to a stretch of basic amino acids that functions as a DNA binding domain. Two alternative transcripts encoding the same protein have been described. Two pseudogenes are located on the X chromosome at q28 in a region containing a large inverted duplication. [provided by RefSeq, Sep 2011]</p>
<b>Molecular Mass</b>	64.35 kDa
<b>AA Sequence</b>	MTEMSFLSSE VLVGDLMSPF DPSGLGAEES LGLLDDYLEV AKHFKPHGFS

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SDKAKAGSSE WLAVDGLVSP SNNSKEDAFS GTDWMLEKMD LKEFDLDALL  
 GIDDLETMPD DLLTTLDDTC DLFAPLVQET NKQPPQTVNP IGHLPESLTK  
 PDQVAPFTFL QPPPLSPGVL SSTPDHSFSL ELGSEVDITE GDRKPDYTAY  
 VAMIPQCIKE EDTPSDND SG ICMSPE SYLG SPQHSPSTRG SPNRS LPSPG  
 VLCGSARPKP YDPPG EK MVA AKVKGEKLDK KLKKMEQNKT AATRYRQKKR  
 AEQEALTGEC KELEKKNEAL KERADSLAKE IQY LKDLIEE VRKARGKKRV P

**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**

ATF4 activating transcription factor 4 (tax-responsive enhancer element B67) [ Homo sapiens ]

**Official Symbol**

ATF4

**Synonyms**

ATF4; activating transcription factor 4 (tax-responsive enhancer element B67);  
 TXREB; cyclic AMP-dependent transcription factor ATF-4; CREB 2; TAXREB67;  
 DNA-binding protein TAXREB67; cAMP response element-binding protein 2; cAMP-  
 dependent transcription factor ATF-4; cAMP-responsive element-binding protein 2;  
 cyclic AMP-responsive element-binding protein 2; tax-responsive enhancer element-  
 binding protein 67; CREB2; CREB-2

**Gene ID**

468

**mRNA Refseq**

NM\_001675

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**Protein Refseq** NP\_001666

**MIM** 604064

**UniProt ID** P18848

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