

Recombinant Full Length Human ATF4 Protein, GST-tagged

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

SPECIFICATION

Product Overview	Human ATF4 full-length ORF (AAH08090, 1 a.a. - 351 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	351 amino acids
Description	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]
Molecular Mass	64.35 kDa
AA Sequence	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 ICMSPESYLG SPQHSPSTRG SPNRSPLSPG
 VLCGSARPKP YDPPGEKMVA AKVKGEKLDK KLKKMEQNKT AATRYRQKKR
 AEQEALTGEC KELEKKNEAL KERADSLAKE IQYLKDLIEE 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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