

Recombinant Human ATF4 protein, GST-tagged

Cat. No. ATF4-939H **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	Wheat Germ
Description	<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>
Molecular Mass	64.35 kDa
AA Sequence	MTEMSFLSSEVLVGDLMSPFDPSGLGAEESLGLLDDYLEVAKHFKPHGFSSDKAKA GSSEWLAVDGLVSPSNNSKEDAFSGTDWMLEKMDLKEFDLDALLGIDDLETMPDDL

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LTTLDDTCDLFAPLVQETNKQPPQTVNPIGHLPESLTKPDQVAPFTFLQPPPLSPGVL
 SSTPDHSFSLELGSEVDITEGDRKPDYTAYVAMIPQCIKEEDTPSDNDSGICMSPES
 YLGSPQHSPSTRGSPNRSPLSPGVLCGSARPKPYDPPGEEKMVAACKVKGEKLDKKL
 KKMEQNKTAATRYRQKKRAEQEALTGECKELEKKNEALKERADSLAKEIQYLKDLIE
 EVRKARGKKRVP

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

Notes Best use within three months from the date of receipt of this protein.

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](#)

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mRNA Refseq	NM_001675
Protein Refseq	NP_001666
MIM	604064
UniProt ID	P18848

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