

# Recombinant Full Length Human ATF2 Protein, GST-tagged

**Cat. No.** ATF2-1051HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Product Overview</b> | Human ATF2 full-length ORF ( AAH26175, 1 a.a. - 209 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>    | 209 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | <p>This gene encodes a transcription factor that is a member of the leucine zipper family of DNA binding proteins. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions This protein binds to the cAMP-responsive element (CRE), an octameric palindrome. It forms a homodimer or a heterodimer with c-Jun and stimulates CRE-dependent transcription. This protein is also a histone acetyltransferase (HAT) that specifically acetylates histones H2B and H4 in vitro; thus it may represent a class of sequence-specific factors that activate transcription by direct effects on chromatin components. The encoded protein may also be involved in cell's DNA damage response independent of its role in transcriptional regulation. Several alternatively spliced transcript variants have been found for this gene [provided by RefSeq, Jan 2014]</p> |
| <b>Molecular Mass</b>   | 48.73 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | MKFKLHVNSA RQYKDLWNMS DDKPFLCTAP GCGQRFTNED HLAVHKHKHE<br>MTLKFGPARN DSVIVADQTP TPTRFLKNCE EVGLFNELAS PFENEFFKKAS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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EDDIKKMPLD LSPLATPIIR SKIEEPSVVE TTHQDSPLPH PESTTSDEKE  
VPLAQTAQPT SAIVRPASLQ VPNVLLTSSD SSVIIQQAVP SPTSSTVITQ  
APSSNRPIV

**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**

ATF2 activating transcription factor 2 [ Homo sapiens ]

**Official Symbol**

ATF2

**Synonyms**

ATF2; activating transcription factor 2; cAMP responsive element binding protein 2 ,  
CREB2; cyclic AMP-dependent transcription factor ATF-2; CRE BP1; HB16; TREB7;  
CREB-2; cAMP-dependent transcription factor ATF-2; cAMP-responsive element-  
binding protein 2; cAMP response element-binding protein CRE-BP1; cyclic AMP-  
responsive element-binding protein 2; cAMP responsive element binding protein 2,  
formerly; activating transcription factor 2 splice variant ATF2-var2; CREB2; CRE-BP1;  
MGC111558

**Gene ID**

1386

**mRNA Refseq**

NM\_001256090

**Protein Refseq**

NP\_001243019

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| MIM | 123811 |
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| UniProt ID | P15336 |
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